HEINE

MASTER CATALOGUE | MEDICAL

2019

Due to local regulations, some products may not be available in your country.

QUALITY
Durability
Performance
Function

What's NEW? What's DIFFERENT?

Just as we do every year, we'd like to kick off the new catalogue by highlighting the novelties.

On the first few pages, we talk about our patent for dimmable BETA LED[HQ] instrument heads, but also address topics which are very important to us, such as quality, in-house production inside Germany, the differences between conventional LED and LED[HQ], and the environment.

And thus provide you with good arguments for HEINE primary diagnostic instruments.

NEW

The EasyClean LED Laryngoscope Handle is now joined by a short and a slim counterpart, completing the range of EasyClean handles: SHORT and SLIM now complement the Standard size and all three are still the only waterproof laryngoscope handles around the world* (page 086).

The new iC 2 Charger for the iC 2 Funduscope is the world's first inductive charging station to receive approval for a medical product. You can now set it down and charge in one step. Another cable less (page 067).

The iPhone 8 now has a case of its own, too,** and can be used with the iC 2 Funduscope, iC 1 Dermatoscope and NC 2 Dermatoscope instruments without any issues (pages 067, 094, 095).

mPack mini: the new belt clip makes it work even better. The small rechargeable battery is now safely secured directly on your belt or in your coat pocket (page 150).

A film says more than a thousand words. There are two new films for the OMEGA 500: one version showcases the extensive range of accessories, whilst the other focuses on the functions and many different applications of the OMEGA 500 (page 069). We've also shot a film for the iC 2 Funduscope which demonstrates everything, from commissioning to taking advantage of the benefits provided by this mobile, digital funduscope (page 067). There's a film about the aspherical optical system (AOS) in English, which is available exclusively for HEINE's direct ophthalmoscopes (page 050/051). The new film about our LED^{HQ} is also in English and can be found as a QR code on the LED^{HQ} double page.

EN 200 Diagnostic Centre: even tidier and even lower energy consumption. The updated Diagnostic Centre now offers new sets and requires, on average, nearly 60 % less power than its predecessor. The cuff of the GAMMA XXL LF-WB set is now conveniently stored in the basket below (page 153).

Dermatoscopes now preassembled. Well thought-out: there are now three kits featuring preassembled dermatoscopes with just one item number, offered without a case or accessories. And finally, we have made some slight changes to the layout of the dermatoscopes section (pages 091 ff.).

* Last updated 10/2018.
** Apple, the Apple logo and iPhone are trademarks of Apple Inc., registered in the U.S. and other countries.

HEINE

Our PROMISE: QUALITY.

Quality has been the benchmark for our activities since the first day. HEINE Optotechnik has four basic principles which the company still observes to this day. And they all revolve around quality:

First: Do something important and thus make a meaningful contribution to society. Second: Always build the best product. Third: Produce the entire product yourself, if it is critical to manufacturing the best quality. And fourth: Remain independent, so that you can always make the right long-term decisions.

Because we continue to embrace these principles to this day, quality isn't a meaningless term at HEINE, but rather is defined in three dimensions: performance, function and durability.

PERFORMANCE

Diagnostic performance takes top priority with our instruments – they should support the earliest and most accurate diagnosis possible. That's because many medical examinations focus first on early detection of diseases and second on implementing the right therapy with the most precise diagnosis possible.

FUNCTION

Our instruments can be adjusted to offer optimal results in every examination situation. For instance, the doctor can adjust our OMEGA 500 to always achieve the best image for every pupil size, whether large or small.

DURABILITY

As a premium supplier, we ensure that our quality concept is also defined by product durability – which is not necessarily a given in this day and age. If a HEINE instrument is used correctly, it will continue to work just as well as on the first day for many years to come. And that's with the same level of performance and reliability as the day it came out of the box. There's good reason why HEINE offers a guarantee of five years on the materials and craftsmanship of all products.*

Each diagnostic instrument is developed with this three-part quality promise in mind from the very start. And every HEINE instrument is put through its paces, with a key focus on these three quality dimensions.

All HEINE instruments are also technically advanced and boast extreme precision and an ergonomic design.

In reality, we not only strive for quality, but also demand the very best quality possible of ourselves. And that's what makes us and our diagnostic instruments so unique.

HEINE QUALITY
MADE IN GERMANY

*The only exception is the HEINE Cube, which comes with a two-year guarantee.

If you want something to be done truly PERFECTLY, then you need to do it YOURSELF.

The HEINE maxim from the very start. For example, all products are developed and elaborated in our own research and development department. That's because we firmly believe that it's always better to define quality criteria yourself than to have them defined by suppliers.

We manufacture many components ourselves, including housings, handles, branding, surface finishes, cables and lighting – and, of course, our precision lenses. That's the only way to ensure that the results are as perfect as we want them to be. We manufacture around 85 per cent of all instrument parts at our own production facilities – that's an extremely high level in German industry.

For example, we coat our laryngoscope blades with our own electroplating – using a six-stage process. The result is an exceptionally smooth, pore-free chrome finish which is extremely durable and easy to clean. In addition to the highly resistant illumination, this forms the basis for the most comprehensive guarantee available on the market.

But even our lenses we make ourselves: as a result, they offer a level of quality which has yet to find its peer around the world. We produce lenses using state-of-the-art CNC machines with a precision of +/- 0.0001mm, which is 20 times less than the diameter of a human hair.

But it's only in this way that we can achieve the level of durability that we expect, alongside precision and perfection.

There's LED. And there's LED^{HQ}

Regardless of the type of medical examination, nothing is more important than unambiguous diagnosis – as early as possible and with maximum precision. And that requires the best illumination possible. LED is establishing itself in more and more applications, but not all LEDs are equal.

HEINE has set a new standard which maintains that only the best is good enough, from the selection of materials to processing, from light intensity to dimmability, and from thermal management a colour rendering index as high as possible.

That's what we call LED in HEINE Quality – or LED^{HQ}.

We have three corresponding criteria.

HEINE LED^{HQ}
film

LED HQ

1. ILLUMINATION

Every HEINE instrument with LEDHQ is developed in such a way that it delivers optimal illumination for the application in question. Depending on the application, the instrument is either preset or the brightness can be steplessly adjusted.

At the same time, the light of the LEDHQ is homogenous and evenly distributed across the entire field of view.

The result is even illumination up to the outer areas, without disturbing reflections, shadows, bright or dark spots.

Conventional LED   HEINE LEDHQ

2. EXCELLENT IMAGE

The colour rendering index (CRI) shows how accurately colours are portrayed compared with the benchmark of daylight. The closer this value is to the maximum of 100, the more accurate the illumination system, which means that colours are shown in their natural state. Red is red, blue is blue. HEINE LEDHQ instruments achieve exceptionally high CRI values in order to ensure that the user sees the colours as they are during each examination – for absolutely reliable and precise diagnosis.

Conventional LED   HEINE LEDHQ

3. OPERATING LIFE

Thanks to special thermal management based on the use of special materials such as ceramics, heat-conducting foils and aluminium heat sinks, the LEDHQ always operates in the optimal temperature range, guaranteeing consistently good performance and an almost unlimited operating life.

As a result, our LEDHQ instruments are virtually maintenance-free, as there's no longer a need to replace the light source. The high efficiency of the LEDHQ and its low energy consumption also extend operating time and battery life and thus contribute to the life-cycle assessment of our instruments.

Another PATENTLY ingenious idea: LED^{HQ} heads offer stepless dimming between 3 and 100 %

Another PATENTLY ingenious idea: LED[HQ] heads offer stepless dimming between 3 and 100 %

You may call it 'obsessed with details'. We call it 'in love with details'. That's why we've put lots of IQ into the dimmability of the LED^{HQ} instrument heads once more. The result is that our LED^{HQ} reduces fatigue, as the brightness of all dimmable instrument heads can be continuously adjusted between 3 and 100 %, without even a hint of flickering. Exclusively at HEINE.

The patent office assessed the continuous brightness adjustment and provided us with the patent featuring number US 9839086 in early 2018. But they're a little 'in love with details' there, too.

LED HQ 3-100 %
STEPLESS DIMMING

GREEN.

The role of environmental footprints is becoming more and more important in medical technology, too, whether it's in production, throughout the operating life of a product, or disposal. Needless to say, this topic is also important to us – and has been for many years. Allow us to provide a few examples that reveal how we think and act.

Is there an eco-friendlier product than a long-lasting product? And that applies to all our products, ranging from laryngoscope systems, otoscopes, loupes and lights to sphygmomanometers, ophthalmoscopes, stethoscopes and dermatoscopes.

And it's no different for the repair service, which kicks in quickly and reliably on those rare occasions that part of a HEINE instrument breaks. Spare parts are available for at least ten years, though we've also been known to repair instruments that have been in use for three, four or even five decades.

In addition to replacement costs, a long operating life also reduces any additional material extraction, energy consumption and disposal, which in turn benefits the environment.

For us, 'Made in Germany' also means 'Buy in Germany'.
We purchase materials regionally if at all possible. 96 % of what we purchase comes from Germany, including 58 % from Bavaria and Baden-Württemberg – quite simply to minimise the energy consumption resulting from transport. In other words: Think globally, act locally.

We're less eager to save on the performance of our instruments, preferring instead to save on their energy consumption. We've updated the EN 200 Diagnostic Centre, so that it now offers more than its predecessor, but typically consumes nearly 60 % less energy.

We may be orange through and through, but we tend to be more and more green in our thinking and acting.
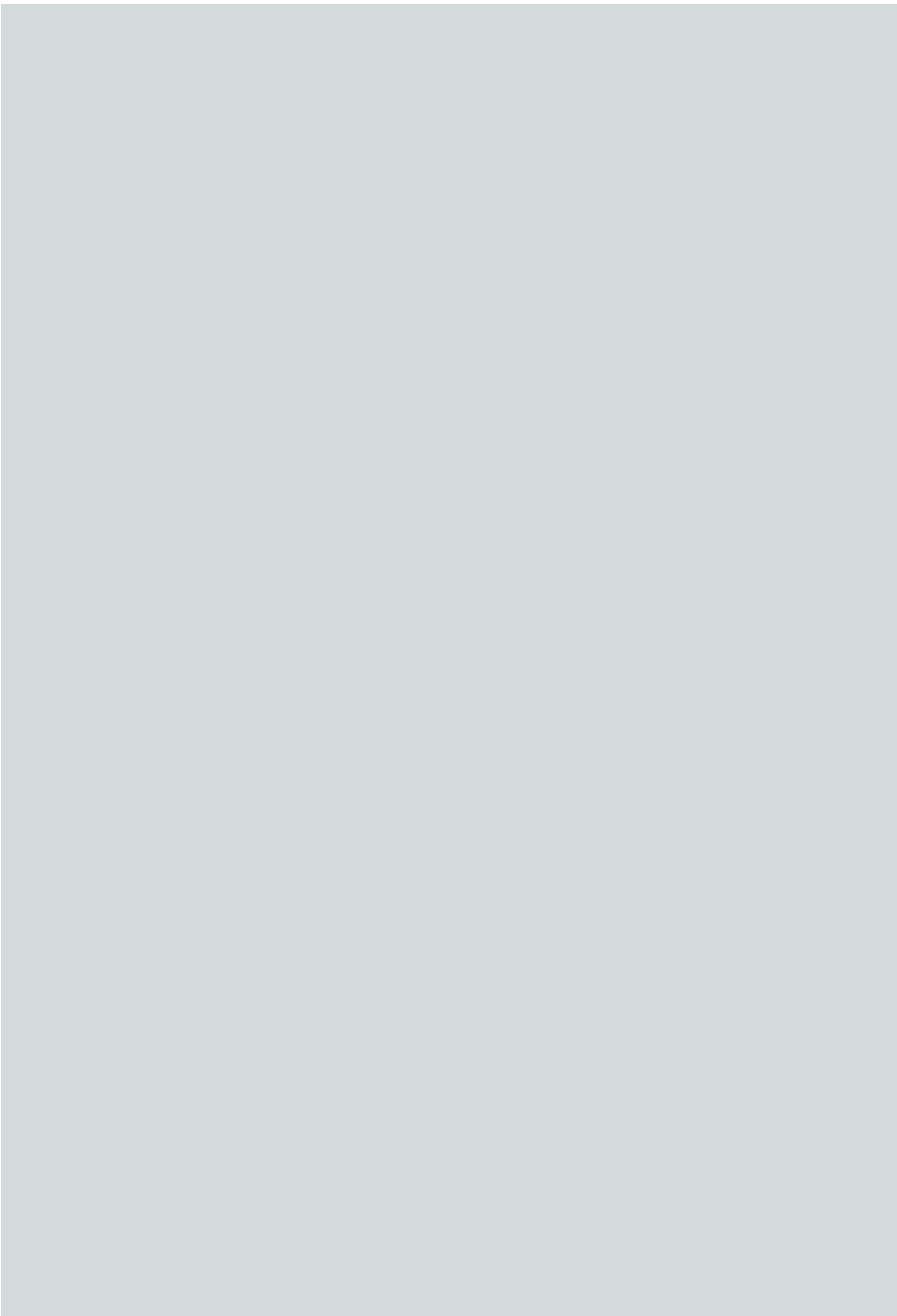
BETTER illumination. HIGHER colour fidelity. MORE magnification. NO DOUBTS.

HEINE

HEINE Otoscopes

	BETA 400 F.O.	BETA 200 F.O.	K 180 F.O.	mini 3000 F.O.	BETA 100	K 100	mini 3000
Housing construction							
Metal	☐	☐			☐		
Polycarbonate			☐	☐		☐	☐
Viewing window							
Glass	☐	☐			☐		
Acrylic			☐	☐		☐	☐
3 x magnification		☐	☐	☐	☐	☐	☐
4.2 x magnification	☐						
Illumination							
LED HQ F.O. illumination	☐	☐		☐			
XHL F.O. illumination	☐	☐	☐	☐			
XHL Direct illumination					☐	☐	☐
Instrument size							
Professional	☐	☐	☐		☐	☐	
Compact				☐			☐
Available power sources							
Battery 2.5 V	☐	☐	☐	☐	☐	☐	☐
Rechargeable battery 2.5 V				☐			☐
Rechargeable battery 3.5 V	☐	☐	☐		☐	☐	
Tips							
Reusable tips	☐	☐	☐	☐			☐
Reusable specula					☐	☐	
AllSpec disposable tips	☐	☐	☐	☐	☐*	☐*	☐
UniSpec disposable specula					☐	☐	
Tip adaptor					☐	☐	
Insufflation bulb							
Insufflation port	☐	☐	☐	☐**	☐	☐	
Page	019 / 020	022	024	025 / 027	0030	032	033

* with Tip adaptor
** Optional insufflation port connector available

High-quality Fiber Optics (F.O.) provide a homogeneous, reflex-free illumination.
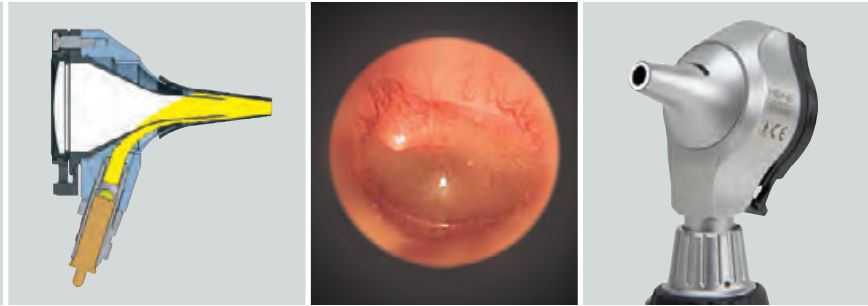
HEINE BETA® 400 LED F.O. Otoscope

4.2x magnification with LED^HQ illumination

LED HQ
LED NOW IN HEINE QUALITY.

The otoscope has been designed with an all metal housing and scratch resistant glass lenses which guarantee a lifetime of maintenance-free use. LED with virtually unlimited hours of working life. No need to ever replace bulbs. Maintenance-free for a lifetime.

:- **Exclusive 4.2x magnification.** More detail of anatomical structures and easy recognition of foreign bodies.
:- **Exceptional depth of field.** Provides sharp spatial images in a convenient working range.
:- **Large field of view.** Gives the necessary overview and perfect orientation during examinations.
:- **Multi-coated precision optics.** Offer high resolution and distortion free images.
:- **Fiber Optic Illumination.** Ensures homogeneous, very bright illumination and an unobstructed view of the ear canal and tympanum.
:- HEINE has set a new standard which maintains that only the best is good enough, from the selection of materials to processing, from light intensity to dimmability, and from thermal management to a colour rendering index as high as possible. **That's what we call LED in HEINE Quality – or LED^HQ.**
:- **Special optical interface to precisely integrate the LED illumination with the optical system** to ensure bright, homogeneous light during examinations.
:- **Patented, unique, stepless dimming** from 3% to 100% with practical one-finger operation.
:- **One hand operation.** The unique patented design allows the permanently attached optical system to be flipped open and out of the way, enabling instrumentation and ease of cleaning.
:- **Integrated insufflation port** offers tympanic mobility testing without air leakage.
:- **Full functionality of the BETA 400 LED is guaranteed with BETA Rechargeable Handles and the EN 100 / EN 200 Wall Transformers.**

EXCLUSIVELY AT HEINE
· 4,2x Magnification
· LED in HQ – Stepless dimmable
· All-metal housing

BETA 400 LED F.O. Otoscope	LED
with 4 reusable tips, without handle	B-008.11.401
same, without tips, without handle	B-008.11.400
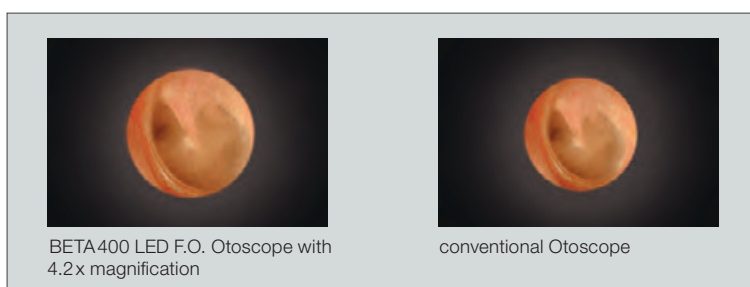
BETA 400 LED F.O. Otoscope with 4.2x magnification

conventional Otoscope

HEINE BETA® 400 F.O. Otoscope

4.2 x magnification with XHL illumination

BETA 400 F.O. Otoscope with XHL Xenon Halogen illumination instead of LED illumination. Other technical specifications the same as the BETA 400 LED F.O. Otoscope.

∶ XHL Xenon Halogen bulb with bright illumination and authentic colour rendering.

BETA 400 F.O. Otoscope	2.5V XHL	3.5V XHL
with 4 reusable tips, without handle	B-001.11.401	B-002.11.401
same, without tips, without handle	B-001.11.400	B-002.11.400
XHL Xenon Halogen spare bulb	X-001.88.077	X-002.88.078

HEINE ENT Diagnostic Sets

with XHL or LED^HQ illumination

Set complete with: **BETA 400 F.O. Otoscope in XHL or LED**
1 set (4 pcs.) of reusable tips (B-000.11.111)
5 of both AllSpec disposable tips 2.5 and 4 mm Ø
spare bulb for XHL version
hard case

ENT Diagnostic Sets	2.5V XHL	3.5V XHL	LED
BETA battery handle	B-143.10.118		
BETA 4 USB rechargeable handle with USB cord and plug-in power supply		B-143.27.388	B-143.28.388
BETA 4 USB rechargeable handle		B-143.27.387	B-143.28.387
BETA 4 NT rechargeable handle with NT 4 table charger		B-143.23.420	B-143.24.420

HEINE Diagnostic Sets

with XHL or LED^{HQ} illumination

Set complete with: **BETA 400 F.O. Otoscope, BETA 200 Ophthalmoscope both in XHL or LED,**
1 set (4 pcs.) of reusable tips (B-000.11.111)
5 of both AllSpec disposable tips 2.5 and 4 mm Ø
one spare bulb each for XHL version
hard case

Diagnostic Sets	2.5 V XHL	3.5 V XHL	LED
BETA battery handle	A-153.10.118		
BETA 4 USB rechargeable handle with USB cord and plug-in power supply		A-153.27.388	A-153.28.388

HEINE Diagnostic Kits

with XHL or LED^{HQ} illumination

Kit complete with: **BETA 400 F.O. Otoscope, BETA 200 Ophthalmoscope both in XHL or LED,**
1 set (4 pcs.) of reusable tips (B-000.11.111)
5 of both AllSpec disposable tips 2.5 and 4 mm Ø
one spare bulb each for XHL version
without hard case

NEW!

Diagnostic Kits	3.5 V XHL	LED
2 x BETA 4 NT rechargeable handle with NT 4 table charger	A-153.23.422	A-153.24.422

HEINE BETA® 200 LED F.O. Otoscope

Sharpest images, perfect colour rendering and brightness in LED^HQ

LED^HQ
LED NOW IN HEINE QUALITY.

The otoscope has been designed with an all metal housing and scratch resistant glass lenses which guarantee a lifetime of maintenance-free use. LED with virtually unlimited hours of working life. No need to ever replace bulbs.
Maintenance-free for a lifetime.

:‣ **3x magnification.** The multi-coated glass viewing window offers high resolution and distortion-free images.
:‣ **Fiber Optic Illumination.** Ensures homogeneous, very bright illumination and an unobstructed view of the ear canal and tympanum.
:‣ HEINE has set a new standard which maintains that only the best is good enough, from the selection of materials to processing, from light intensity to dimmability, and from thermal management to a colour rendering index as high as possible.
That's what we call LED in HEINE Quality – or LED^HQ.
:‣ **Special optical interface to precisely integrate the LED illumination with the optical system** to ensure bright, homogeneous light during examinations.
:‣ **Patented, unique, stepless dimming** from 3 % to 100 % with practical one-finger operation.
:‣ **Viewing window is permanently attached,** and swivels for instrument use and complete cleaning of the instrument head.
:‣ **Integrated insufflation port** offers tympanic mobility testing without air leakage.
:‣ **Full functionality of the BETA 200 LED is guaranteed with BETA Rechargeable Handles and the EN 100 / EN 200 Wall Transformers.**

EXCLUSIVELY AT HEINE
· 3x Magnification
· LED in HQ – Stepless dimmable
· All-metal housing

BETA 200 LED F.O. Otoscope	LED
with 4 reusable tips, without handle	**B-008.11.501**
same, without tips, without handle	**B-008.11.500**

HEINE BETA® 200 F.O. Otoscope

Sharpest images, perfect colour rendering and brightness in XHL

BETA 200 F.O. Otoscope with XHL Xenon Halogen illumination instead of LED illumination. Other technical specifications the same as the BETA 200 LED F.O. Otoscope.

:‣ **XHL Xenon Halogen bulb** with bright illumination and authentic colour rendering.

BETA 200 F.O. Otoscope	2.5V XHL	3.5V XHL
with 4 reusable tips, without handle	**B-001.11.501**	**B-002.11.501**
same, without tips, without handle	**B-001.11.500**	**B-002.11.500**
XHL Xenon Halogen spare bulb	**X-001.88.077**	**X-002.88.078**

HEINE ENT Diagnostic Sets

with XHL or LED^HQ illumination

Set complete with: **BETA 200 F.O. Otoscope in XHL or LED**
1 set (4 pcs.) of reusable tips (B-000.11.111)
5 of both AllSpec disposable tips 2.5 and 4 mm Ø
spare bulb for XHL version
hard case

ENT Diagnostic Sets	2.5V XHL	3.5V XHL	LED
BETA battery handle	B-141.10.118		
BETA 4 USB rechargeable handle with USB cord and plug-in power supply		B-141.27.388	B-141.28.388
BETA 4 USB rechargeable handle		B-141.27.387	B-141.28.387
BETA 4 NT rechargeable handle with NT 4 table charger		B-141.23.420	B-141.24.420

HEINE Diagnostic Sets

with XHL or LED^HQ illumination

Set complete with: **BETA 200 F.O. Otoscope, BETA 200 Ophthalmoscope
both with XHL or LED,**
1 set (4 pcs.) of reusable tips (B-000.11.111)
5 of both AllSpec disposable tips 2.5 and 4 mm Ø
one spare bulb each for XHL version
hard case

Diagnostic Sets	2.5V XHL	3.5V XHL	LED
BETA battery handle	A-132.10.118		
BETA 4 USB rechargeable handle with USB cord and plug-in power supply		A-132.27.388	A-132.28.388

HEINE Diagnostic Kits

with XHL or LED^HQ illumination

Kit complete with: **BETA 200 F.O. Otoscope, BETA 200 Ophthalmoscope
both with XHL or LED,**
1 set (4 pcs.) of reusable tips (B-000.11.111)
5 of both AllSpec disposable tips 2.5 and 4 mm Ø
one spare bulb each for XHL version
without hard case

NEW!

Diagnostic Kit	3.5V XHL	LED
2 x BETA 4 NT rechargeable handle with NT 4 table charger	A-132.23.422	A-132.24.422

HEINE® K 180 F.O. Otoscope

The standard, all around Fiber Optic Otoscope

Otoscope with Fiber Optic (F.O.) illumination constructed of light, high-impact polycarbonate.

:· **Fiber Optic Illumination.** Ensures homogeneous, very bright illumination and an unobstructed view of the ear canal and tympanum.
:· **Polycarbonate construction.** Shock-resistant.
:· **XHL Xenon Halogen Technology.** Extremely bright, white light.
:· **Acrylic viewing window with 3x magnification.** Sharply-focused distortion-free image.
:· **Swivelling viewing window built into instrument.** Useful for instrumentation, cannot be mislaid.
:· **Insufflation port.** Reliable test of tympanic mobility.

:· Fiber Optic (F.O.) illumination

:· Polycarbonate construction

K180 F.O. Otoscope	2.5V XHL	3.5V XHL
with 4 reusable tips, without handle	**B-001.11.551**	**B-002.11.551**
same, without tips, without handle	**B-001.11.550**	**B-002.11.550**
XHL Xenon Halogen spare bulb	**X-001.88.077**	**X-002.88.078**

HEINE® K 180 F.O. Diagnostic Sets

Set complete with: **K180 F.O. Otoscope**
1 set (4 pcs.) of reusable tips (B-000.11.111)
soft pouch

K180 F.O. Otoscope Sets	2.5V XHL	3.5V XHL
BETA battery handle	**B-181.10.118**	
BETA 4 USB rechargeable handle with USB Cord and plug-in power supply		**B-181.27.388**
BETA 4 USB rechargeable handle		**B-181.27.387**
BETA 4 NT rechargeable handle with NT 4 table charger		**B-181.23.420**

Set complete with **K180 Ophthalmoscope, K180 F.O. Otoscope**
1 set (4 pcs.) of reusable tips (B-000.11.111)
hard case

K180 Combined Diagnostic Sets	2.5V XHL	3.5V XHL
BETA battery handle	**A-279.10.118**	
BETA 4 USB rechargeable handle with USB Cord and plug-in power supply		**A-279.27.388**
BETA 4 USB rechargeable handle		**A-279.27.387**
BETA 4 NT rechargeable handle with NT 4 table charger		**A-279.23.420**

General Medicine,
ENT & VET

HEINE mini 3000® LED F.O. Otoscope

With LED illumination in HEINE Quality – LED^HQ

LED **HQ**
LED NOW IN HEINE QUALITY.

Modern otoscope with maintenance-free LED illumination. Twice as bright as a conventional Xenon Halogen instrument.

:∙ **Maintenance-free,** no need to ever exchange the LED.
:∙ LED Thermal management for a **consistent light output throughout the whole working life.**
:∙ HEINE has set a new standard which maintains that only the best is good enough, from the selection of materials to processing, from light intensity and thermal management to a colour rendering index as high as possible.
That's what we call LED in HEINE Quality – or LED^HQ.
:∙ **Twice as bright as** Xenon Halogen instruments.
:∙ **Exclusive Battery Performance Indicator:** When the instrument is switched on, the maximum light intensity is shown, then the light intensity is regulated down to the level that corresponds to the current charge status of the battery so you know when your batteries need changing.
:∙ **Fade-Out Feature:** brightness reduces slowly even with low residual capacity, for even more efficient use of dry or rechargeable batteries.
:∙ **Operating time typ. 10 hours.** The batteries need to be changed less often and the rechargeable batteries last longer.

:∙ **For further technical specifications, please see mini 3000 F.O. Otoscope with XHL illumination on page 027.**

:∙ Maintenance-free pocket instrument

:∙ Bright LED illumination

:∙ Typ. 10 hours operating time

mini 3000 LED F.O. Otoscope	2.5 V LED
with mini 3000 battery handle, 1 set (4 pcs.) reusable tips and 5 of both 2.5 and 4 mm dia. AllSpec disposable tips, with batteries	D-008.70.120
with mini 3000 battery handle and 5 of both 2.5 and 4 mm dia. AllSpec disposable tips, with batteries	D-008.70.110
with mini 3000 rechargeable handle and 5 of both 2.5 and 4 mm dia. AllSpec disposable tips (please order mini NT table charger separately)	D-008.70.301
mini 3000 LED F.O. Otoscope head **without handle** and without accessories	D-008.70.106

Insufflation port connector for mini 3000 F.O. Otoscopes	D-000.80.101

HEINE mini 3000 pocket instruments – a complete range of quality diagnostic instruments for your pocket. Available in black or blue. Please specify the colour you prefer when ordering. If not otherwise specified, we will supply black instruments.

HEINE mini 3000® LED F.O. Diagnostic Sets

LED HQ
LED NOW IN HEINE QUALITY.

Set complete with: **mini 3000 LED F.O. Otoscope**
1 set (4 pcs.) reusable tips (B-000.11.111)
5 each of 2.5 and 4 mm dia. AllSpec disposable tips
hard case

mini 3000 LED F.O. Diagnostic Sets	2.5 V LED
with mini 3000 battery handle with batteries	D-885.20.021

Set complete with: **mini 3000 LED Ophthalmoscope, mini 3000 LED F.O. Otoscope,**
1 set (4 pcs.) reusable tips (B-000.11.111)
5 each of 2.5 and 4 mm dia. AllSpec disposable tips
hard case

mini 3000 LED F.O. Diagnostic Sets	2.5 V LED
with **2** mini 3000 battery handles with batteries	D-886.11.021

Set complete with: **mini 3000 LED Ophthalmoscope, mini 3000 LED F.O. Otoscope,**
mini NT table charger
5 each of 2.5 and 4 mm dia. AllSpec disposable tips

mini 3000 LED F.O. Diagnostic Sets	2.5 V LED
with **2** mini 3000 rechargeable handles	D-860.11.022*

*with this Art. No. only available in black

For information on HEINE battery and rechargeable handles see pages 140 – 145.

General Medicine,
ENT & VET

HEINE mini 3000® F.O. Otoscope

Compact pocket otoscope with XHL illumination

Modern pocket otoscope with XHL Xenon Halogen bulbs for bright illumination and accurate colour rendering. Unique design, compact and powerful. Can only be used with the mini 3000 handle system. Available in black or blue.

:· **20,000** ON / OFF switch cycles guaranteed.
:· **Distal Fiber Optic (F.O.) illumination:** Reflex-free illumination of tympanum and ear canal.
:· **Viewing window with 3x magnification and** optimized casing surface for razor-sharp images and minimal reflection. Swivelling viewing window built into instrument.
:· **Pneumatic testing** of tympanum mobility by using the insufflation port and an optional connector.
:· **Attachment clip with integrated on / off switch.** Switches off automatically when returned to the pocket.
:· **Replaceable batteries.** Size AA, or optional rechargeable battery with mini NT table charger.*
:· **2-piece handle and head.** Easy to maintain, flexible.
:· **Award-winning design.** Maximum quality with minimum dimensions.

:· **Modern pocket otoscope**

:· **Fiber Optic (F.O.) illumination**

:· **Port for pneumatic testing**

mini 3000 F.O. Otoscope	2.5 V XHL
with mini 3000 battery handle, 1 set (4 pcs.) reusable tips and 5 of both 2.5 and 4 mm dia. AllSpec disposable tips, with batteries	D-001.70.120
with mini 3000 battery handle and 5 of both 2.5 and 4 mm dia. AllSpec disposable tips, with batteries	D-001.70.110
with mini 3000 rechargeable handle and 5 of both 2.5 and 4 mm dia. AllSpec disposable tips (please order mini NT table charger separately)	D-001.70.301
mini 3000 F.O. Otoscope head **without handle** and without accessories	D-001.70.106

XHL Xenon Halogen spare bulb	X-001.88.105

Insufflation port connector for mini 3000 F.O. Otoscopes	D-000.80.101

*To upgrade to a rechargeable instrument with mini NT table charger, please see page 145.

HEINE mini 3000 pocket instruments – a complete range of quality diagnostic instruments for your pocket. Available in black or blue. Please specify the colour you prefer when ordering. If not otherwise specified, we will supply black instruments.

For information on HEINE battery and rechargeable handles see pages 140 – 145.

HEINE mini 3000® F.O. Diagnostic Sets

Set complete with: **mini 3000 F.O. Otoscope**
1 set (4 pcs.) reusable tips (B-000.11.111)
5 each of 2.5 and 4 mm dia. AllSpec disposable tips
hard case

mini 3000 F.O. Diagnostic Sets	2.5 V XHL
with mini 3000 battery handle with batteries	D-851.10.021

Set complete with: **mini 3000 Ophthalmoscope, mini 3000 F.O. Otoscope,**
1 set (4 pcs.) reusable tips (B-000.11.111)
5 each of 2.5 and 4 mm dia. AllSpec disposable tips
hard case

mini 3000 F.O. Diagnostic Sets	2.5 V XHL
with **2** mini 3000 battery handles with batteries	D-873.11.021

Set complete with: **mini 3000 Ophthalmoscope, mini 3000 F.O. Otoscope,**
mini NT table charger
5 each of 2.5 and 4 mm dia. AllSpec disposable tips

mini 3000 F.O. Diagnostic Sets	2.5 V XHL
with **2** mini 3000 rechargeable handles	D-859.11.022*

*with this Art. No. only available in black.

HEINE AllSpec® Disposable Tips
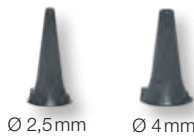
:- **For the most secure fit, best light transmission and hygiene,** we recommend the use of **HEINE Otoscope Tips.**
:- **Assured quality.** No sharp edges.

Ø 2,5 mm   Ø 4 mm

AllSpec Disposable tips (grey)	
for BETA 400, BETA 200, K 180, mini 3000 F.O., mini 3000 Otoscopes	
Pack of 1000 pcs. 2.5 mm dia. (infants) [01]	B-000.11.128
Pack of 1000 pcs. 4 mm dia. (adults) [01]	B-000.11.127
Dispenser pack, single, of 250 tips, 2.5 mm dia (infants) [02]	B-000.11.153
Dispenser pack, single, of 250 tips, 4 mm dia (adults) [02]	B-000.11.152
Case of 10 dispenser packs of 250 tips, 2.5 mm dia (infants)	B-000.11.151
Case of 10 dispenser packs of 250 tips, 4 mm dia (adults)	B-000.11.150

[01]   [02]

:- **AllSpec Tip dispenser** incl. tips Ø 2.5 mm and 4 mm.
The right size, visible and instantly available. A clean new tip for each and every patient.

AllSpec Tip dispenser (2 x 45 tips) [03]	B-000.11.149

[03]

⊗: Single use only.

Reusable Tips

Ø 2,4mm Ø 3mm Ø 4mm Ø 5mm

:‣ **For the most secure fit, best light transmission and hygiene,** we recommend the use of **HEINE Otoscope Tips.**

:‣ **Made of high-density SANALON S plastic with smooth external finish.** Easy to clean. Common germicides can be used. Autoclavable at up to 134 °C.

:‣ **Ergonomic shape.** Painless atraumatic insertion.

Reusable tips (black)	1 piece	50 pieces
for BETA 400, BETA 200, K180, mini 3000 F.O., mini 3000 Otoscopes		
Reusable tip 2.4 mm dia.	**B-000.11.107**	**B-000.11.207**
Reusable tip 3.0 mm dia.	**B-000.11.108**	**B-000.11.208**
Reusable tip 4.0 mm dia.	**B-000.11.109**	**B-000.11.209**
Reusable tip 5.0 mm dia.	**B-000.11.110**	**B-000.11.210**
1 set = 4 pcs. reusable tips SANALON S 2.4 / 3 / 4 / 5 mm dia.		**B-000.11.111**

Soft Disposable Tips

Ø 3mm Ø 5mm
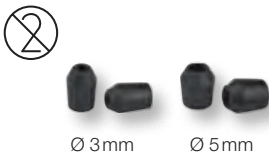
:‣ **Fits over the end of the tip to protect the auditory canal.**

Soft disposable tips (black)	
Soft disposable tip 3 mm dia. 40 pcs./1 pack	**B-000.11.141**
Soft disposable tip 5 mm dia. 40 pcs./1 pack	**B-000.11.142**

⊗: Single use only.

Insufflation Bulb

:‣ **For pneumatic testing.**

Insufflation bulb for BETA 400, BETA 200 and K180 Otoscopes	**B-000.11.240**
Insufflation bulb for mini 3000 F.O. Otoscope with connector	**D-000.80.102**
Insufflation port connector for mini 3000 F.O. Otoscope	**D-000.80.101**

Bright XHL Xenon Halogen direct illumination.
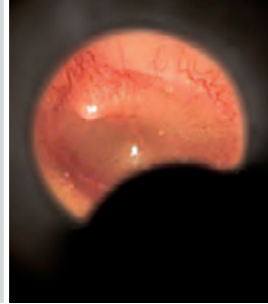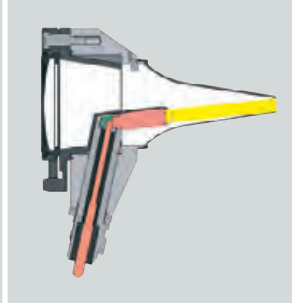
HEINE BETA® 100 Diagnostic Otoscope

Diagnostic Otoscope with an all-metal housing

An otoscope with direct Xenon Halogen illumination in an elegant all-metal instrument head. For use with reusable specula or UniSpec disposable specula. With tip-adaptor (B-000.11.306) it is also possible to use AllSpec disposable tips.

:· **All-metal housing.** Exceptionally tough and durable.
:· **Instrument head matt-black inside.** Eliminates reflexes.
:· **XHL Xenon Halogen Technology.** Extremely bright, white light.
:· **Large, scratch-resistant glass viewing window with 3x magnification.** Unobstructed view, distortion-free image.
:· **Swivelling viewing window built into instrument.** Useful for instrumentation, cannot be mislaid.
:· **Insufflation port.** Reliable test of tympanic mobility.

:· **All-metal housing**

:· **Silica glass viewing window**

:· **Easy instrumentation**

BETA100 Diagnostic Otoscope	2.5V XHL	3.5V XHL
with 6 reusable specula, without handle	B-001.11.527	B-002.11.527
without specula, without handle	B-001.11.525	B-002.11.525
XHL Xenon Halogen spare bulb	X-001.88.037	X-002.88.049
Replacement aperture cover for bulb. Reduces reflexes. [01]		B-000.11.212

[01]

HEINE BETA®100 ENT Diagnostic Sets

Set complete with: **BETA100 Diagnostic Otoscope**
1 set (6 pcs.) of reusable specula (B-000.11.221)
10 UniSpec disposable specula, 4mm dia. (B-000.11.237)
spare bulb
hard case

BETA100 Otoscope Sets	2.5V XHL	3.5V XHL
BETA battery handle	B-236.10.118	
BETA 4 USB rechargeable handle with USB Cord and plug-in power supply		B-236.27.388
BETA 4 USB rechargeable handle		B-236.27.387
BETA 4 NT rechargeable handle with NT 4 table charger		B-236.23.420

HEINE BETA® Diagnostic Set

Set complete with: **BETA 200 Ophthalmoscope in XHL or LED,
BETA100 Diagnostic Otoscope**
1 set (6 pcs.) of reusable specula (B-000.11.221)
10 UniSpec disposable specula, 4mm dia. (B-000.11.237)
one spare bulb each for XHL version
hard case

BETA Diagnostic Sets	2.5V XHL	3.5V XHL	3.5V XHL/LED*
BETA battery handle	A-234.10.118		
BETA 4 USB rechargeable handle with USB Cord and plug-in power supply		A-234.27.388	A-234.25.388
BETA 4 USB rechargeable handle		A-234.27.387	A-234.25.387
BETA 4 NT rechargeable handle with NT 4 table charger		A-234.23.420	A-234.25.420

*BETA100 Otoscope with XHL illumination and BETA200 LED Ophthalmoscope with LED illumination.

HEINE® K100 Diagnostic Otoscope

Diagnostic Otoscope with a high-impact polycarbonate housing

A very cost-effective diagnostic otoscope with direct Xenon Halogen illumination. The head is moulded in high-impact polycarbonate.

For use with reusable specula or UniSpec disposable specula. With tip-adaptor (B-000.11.306) it is also possible to use AllSpec disposable tips.

:· **Polycarbonate construction.** Shock-resistant.
:· **Instrument head matt-black inside.** Eliminates reflexes.
:· **XHL Xenon Halogen Technology.** Extremely bright, white light.
:· **Large acrylic viewing window with 3x magnification.** Sharply-focused distortion-free image.
:· **Swivelling viewing window built into instrument.** Useful for instrumentation, cannot be mislaid.
:· **Insufflation port.** Reliable test of tympanic mobility.

:· **Polycarbonate construction**

:· **Easy instrumentation**

[01]

K100 Diagnostic Otoscope	2.5V XHL	3.5V XHL
with 3 reusable specula 3.5/4.5/5.5 mm dia., without handle	B-001.11.576	B-002.11.576
without specula, without handle	B-001.11.575	B-002.11.575

XHL Xenon Halogen spare bulb	X-001.88.037	X-002.88.049

Replacement aperture cover for bulb [01] Reduces reflexes.	B-000.11.212

HEINE® K100 ENT Diagnostic Sets

Set complete with: **K100 Diagnostic Otoscope**
1 set (6 pcs.) of reusable specula (B-000.11.221)
spare bulb
soft pouch

K100 Otoscope Sets	2.5V XHL
BETA battery handle	B-237.10.118

Set complete with: **K100 Diagnostic Otoscope**
3 reusable specula (B-000.11.222)
soft pouch

K100 Otoscope Sets	2.5V XHL	3.5V XHL
BETA battery handle	B-245.10.118	
BETA4 USB rechargeable handle with USB Cord and plug-in power supply		B-245.27.388
BETA4 USB rechargeable handle		B-245.27.387
BETA4 NT rechargeable handle with NT4 table charger		B-245.23.420

General Medicine,
ENT & VET

HEINE mini 3000® Otoscope

Compact pocket otoscope with direct illumination

Modern pocket otoscope in a unique, compact design. Can only be used with the mini 3000 handle system. Available in black or blue.

:· **Instrument head matt-black inside.** Eliminates reflexes.
:· **Enhanced XHL Xenon Halogen Technology with 100% more light compared with conventional bulbs.** Very bright, concentrated white light for perfect illumination.
:· **2-piece handle and head.** Easy to maintain, flexible. Compatible with other mini 3000 instrument heads.
:· **Viewing window with 3x magnification** and optimised casing surface for razor-sharp images and minimal reflection.
:· **Swivelling viewing window built into instrument.** Useful for instrumentation, cannot be mislaid.
:· **High-quality handle: Chrome-finished upper section / refined plastic.** Shockproof, sturdy, non-slip.
:· **Attachment clip with integrated on / off switch.** Secure. Switches off automatically when returned to the pocket. 20,000 switch cycles guaranteed.
:· **Replaceable batteries.** Size AA, or optional rechargeable battery with mini NT table charger*.

:· Modern pocket otoscope

:· Switches off automatically

:· Optional rechargeable handle

mini 3000 Otoscope	2.5 V XHL
with mini 3000 battery handle and 1 set (4 pcs.) reusable tips and 5 of both AllSpec disposable tips 2.5 and 4 mm dia., with batteries	D-001.70.220
with mini 3000 battery handle and 5 of both AllSpec disposable tips 2.5 and 4 mm dia., with batteries	D-001.70.210
with bulb, **without handle** and without accessories	D-001.70.206

XHL Xenon Halogen spare bulb	X-001.88.110

*To upgrade to a rechargeable instrument with mini NT table charger, please see page 145.

Available in black or blue. Please specify the colour you prefer when ordering. If not otherwise specified, we will supply black instruments.

HEINE mini 3000® Diagnostic Sets

Set complete with: **mini 3000 Otoscope**
1 set (4 pcs.) reusable tips
5 each of 2.5 and 4 mm dia. AllSpec disposable tips
hard case

mini 3000 Diagnostic Sets	2.5V XHL
mini 3000 battery handle with batteries	**D-851.20.021**

Set complete with: **mini 3000 Ophthalmoscope, mini 3000 Otoscope,**
1 set (4 pcs.) reusable tips
5 each of 2.5 and 4 mm dia. AllSpec disposable tips
hard case

mini 3000 Diagnostic Sets	2.5V XHL
2 mini 3000 battery handles with batteries	**D-873.21.021**

HEINE UniSpec® Disposable Specula

2.5mm dia.   4mm dia.

:- **Disposable.** Hygienic and safe.
:- **Original HEINE design and manufacture.** Fit positively to the otoscope.
:- **Assured quality.** No sharp edges.
:- **A clean, new speculum for each and every patient.** The right size is visible and instantly available.

UniSpec Disposable Specula (grey)	
for BETA100 and K100	
Pack of 1000, 2.5mm dia. (infants) 1000 pcs./1 pack	**B-000.11.242**
Pack of 1000, 4mm dia. (adults) 1000 pcs./1 pack	**B-000.11.241**
UniSpec tip dispenser	**B-000.11.146**

⊗: Single use only.

Reusable Specula

2.2mm dia.   2.8mm dia.   3.5mm dia.

4.5mm dia.   5.5mm dia.   10mm dia.

:- **Moulded in high-density SANALON S, smooth surface.** Easy to clean. Common germicides can be used. Autoclavable at up to 134°C.
:- **Ergonomic Design.** Painless and atraumatic insertion.
:- **Metal security lock with bayonet fitting.** Long-lasting, positive fit to the otoscope.

Reusable Specula (black)	
for BETA100 and K100	
1 set = 5 ear specula and 1 nose speculum	**B-000.11.221**
3 specula 3.5/4.5/5.5mm dia.	**B-000.11.222**
Ear speculum 2.2mm dia.	**B-000.11.215**
Ear speculum 2.8mm dia.	**B-000.11.216**
Ear speculum 3.5mm dia.	**B-000.11.217**
Ear speculum 4.5mm dia.	**B-000.11.218**
Ear speculum 5.5mm dia.	**B-000.11.219**
Nose speculum 10mm dia.	**B-000.11.220**

Tip Adaptor

:- **All-metal construction.** Adaptor for AllSpec disposable tips (p. 028) for use with diagnostic otoscope (BETA100, K100).

Tip-Adaptor	**B-000.11.306**

Insufflation Bulb

:- **For pneumatic testing.**

Insufflation bulb for BETA100 and K100 Otoscopes	**B-000.11.240**

Tongue-Blade Holder

For wooden tongue-blades

:‑ **XHL Xenon Halogen technology.** Concentrated illumination
of oral cavity and pharynx.
:‑ **Light-guide for bulb.** Avoids dazzle.

Tongue-Blade Holder	2.5V XHL	3.5V XHL
for wooden tongue-blades, without handle	B-001.12.302	B-002.12.302
XHL Xenon Halogen spare bulb	X-001.88.037	X-002.88.049
Replacement light-guide for bulb [01]		B-000.12.308

[01]

Tongue-Blade Holder

With blade ejector for use with HEINE disposable tongue-blades

:‑ **XHL Xenon Halogen technology.** Concentrated illumination of oral cavity and pharynx.
:‑ **Light-guide for bulb.** Avoids dazzle.
:‑ **Blade ejector.** No need to touch used blades.
:‑ **Only for HEINE disposable plastic tongue-blades.** Strong and hygienic.

Tongue-Blade Holder	2.5V XHL	3.5V XHL
with blade ejector, without handle	B-001.12.305	B-002.12.305
XHL Xenon Halogen spare bulb	X-001.88.037	X-002.88.049
Pack of 100 disposable plastic tongue-blades		B-000.12.304

HEINE mini 3000® Tongue-Blade Holder

With blade ejector for HEINE disposable tongue-blades
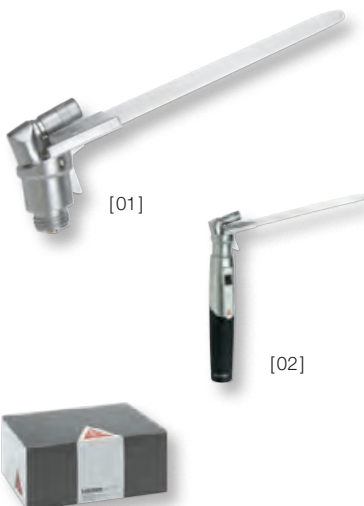
Can only be used with the mini 3000 handle system.

:‑ **Finger-tip pressure releases the used blade.** No need to touch the blade after use.
:‑ **XHL Xenon Halogen technology.** Concentrated illumination of oral cavity and pharynx.
:‑ **Only for HEINE disposable tongue-blades.** Strong and hygienic.

mini 3000 Tongue-Blade Holder	2.5V XHL
Tongue-blade holder head with bulb, **without handle** [01]	D-001.74.100
complete with mini 3000 battery handle* and 5 disposable blades, with batteries [02]	D-001.74.118
XHL Xenon Halogen spare bulb	X-001.88.037
Pack of 100 disposable plastic tongue-blades	B-000.12.304

[01]

[02]

*Available in black or blue. Please specify the colour you prefer when ordering. If not otherwise specified, we will supply black instruments.

HEINE® mini-c Clip Lamp

Compact, long-life pocket diagnostic light

Sturdy, long-life pocket diagnostic light in a compact, modern design with chrome head. Bright, concentrated light thanks to unique XHL Xenon Halogen lens-bulb.

mini-c Clip Lamp only fits mini-c handles. The mini-c handle is not compatible with mini 3000 instruments. Handle available in black or blue.

:· **Clip Lamp with ear light for otoplasty.** The Ear Light is used to ensure that hearing aids fit correctly.
:· **Compact, oval, attractive light.** Lies ergonomically in the hand.
:· **High-quality handle: Chrome-finish upper section/refined plastic.** Shockproof, sturdy, non-slip.
:· **Attachment clip with integrated on/off switch.** Secure. Switches off automatically when replaced in the pocket. 20,000 switch cycles guaranteed.
:· **Replaceable batteries.** Size AAA.
:· **Registered design.**

[01]   [02]   [03]

mini-c Clip Lamp	2.5V XHL
with batteries [01]	D-001.73.109
with ear light with batteries [02]	D-001.73.103

Ear light for mini-c Clip Lamp, 6 pieces in blister pack [03]	D-000.73.105

XHL Xenon Halogen spare bulb	X-001.88.108

HEINE mini 3000 pocket instruments – a complete range of quality diagnostic instruments for your pocket. Available in black or blue. HEINE mini 3000 Clip Lamp and mini-c Clip Lamp attachments are only available with a chrome head. Please specify the colour you prefer when ordering. If not otherwise specified, we will supply black instruments.

HEINE mini 3000® Clip Lamp

Compact, long-life pocket diagnostic light

Sturdy, long-life pocket diagnostic light in a compact, modern design with chrome head. Bright, concentrated light thanks to unique XHL Xenon Halogen lens-bulb.

Can only be used with the mini 3000 handle system. Handle available in black or blue.

:: **Compact, oval, attractive light.** Lies ergonomically in the hand.
:: **2-piece handle and head.** Easy to maintain, flexible. Compatible with other mini 3000 instrument heads.
:: **Enhanced XHL Xenon Halogen lens-bulb with 100 % more light compared to conventional bulbs.** Bright, focused light.
:: **High-quality handle: Chrome-finish upper section / refined plastic.** Shockproof, sturdy, non-slip.
:: **Attachment clip with integrated on / off switch.** Secure. Switches off automatically when replaced in the pocket. 20,000 switch cycles guaranteed.
:: **Replaceable batteries.** Size AA, or optional rechargeable battery with mini NT table charger*.
:: **Ear light for otoplasty** [02]. The ear light is used to ensure that hearing aids fit correctly.

[01]   [02]

:: Long-life pocket light
:: Switches off automatically
:: Optional rechargeable handle

mini 3000 Clip Lamp	2.5 V XHL
complete with mini 3000 battery handle, with batteries [01]	**D-001.73.131**

mini 3000 Clip Lamp head **without handle**	**D-001.73.130**
Ear light for mini 3000 Clip Lamp, 6 pieces in blister pack [02]	**D-000.73.105**

XHL Xenon Halogen spare bulb	**X-001.88.107**

*To upgrade to a rechargeable instrument with mini NT table charger, please see page 145.

HEINE mini 3000 pocket instruments – a complete range of quality diagnostic instruments for your pocket. Available in black or blue. HEINE mini 3000 Clip Lamp and mini-c Clip Lamp attachments are only available with a chrome head. Please specify the colour you prefer when ordering. If not otherwise specified, we will supply black instruments.

HEINE mini 3000® Combi Lamp

Compact, all purpose illuminator with integrated tongue-blade holder

Sturdy, long-life pocket diagnostic light in a compact, modern design. Bright, concentrated light thanks to unique XHL Xenon Halogen lens-bulb.

Can only be used with the mini 3000 handle system.
Available in black or blue.

:· **Many applications.** Can be used as a general illuminator and as an illuminated tongue-blade holder for wooden blades and HEINE disposable blades.
:· **2-piece handle and head.** Easy to maintain, flexible. Compatible with other mini 3000 instrument heads.
:· **Enhanced XHL Xenon Halogen lens-bulb with 100 % more light compared with conventional bulbs.** Bright, focused light.
:· **High-quality handle: Chrome-finish upper section / refined plastic.** Shockproof, sturdy, non-slip.
:· **Attachment clip with integrated on / off switch.** Secure. Switches off automatically when replaced in the pocket. 20,000 switch cycles guaranteed.
:· **Replaceable batteries.** Size AA, or optional rechargeable battery with mini NT table charger*.

mini 3000 Combi Lamp	2.5V XHL
on mini 3000 Battery Handle with 5 disposable blades and batteries	D-001.76.120
without handle	D-001.76.101

XHL Xenon Halogen spare bulb	X-001.88.107

Pack of 100 disposable tongue-blades [01]	B-000.12.304

[01]

HEINE mini 3000 pocket instruments – a complete range of quality diagnostic instruments for your pocket. Available in black or blue. Please specify the colour you prefer when ordering. If not otherwise specified, we will supply black instruments.

HEINE Veterinary ENT diagnostic instruments

	G 100 Slit Illumination Head	Operating Otoscope	BETA 200 VET F.O. Otoscope	BETA 100 VET Otoscope
Housing construction				
Metal	□	□	□	□
Swivel lens – Magnification				
Glass / Magnification 1.6 x	□			
Glass / Magnification 2.5 x		□	□	□
Illumination				
LED HQ F.O. illumination	□		□	
XHL F.O. illumination	□		□	
XHL Direct illumination		□		□
Instrument size				
Professional	□	□	□	□
Available power sources				
Battery 2.5 V	□	□	□	□
Rechargeable battery 3.5 V	□	□	□	□
Tips				
Long, closed specula	□			
Slit metal specula, open	□			
Spreadable speculum	□			
Short, closed specula	□			□
Reusable specula		□		
UniSpec VET disposable tips	□*	□		
VET reusable specula			□	□**
AllSpec disposable tips (with adaptor)		□***		□***
Insufflation port			□	□
Page	041	043	044	045

*   with Adaptor for UniSpec VET disposable tips

** with Adaptor for reusable VET specula

*** with Adaptor for AllSpec tips

HEINE® G 100 LED Slit Illumination Head

With LED illumination in HEINE Quality – LED^{HQ}

LED^{HQ}
LED NOW IN HEINE QUALITY.

Instrument head with solid metal construction and scratch-resistant swivel lens guarantee a lifetime of maintenance-free use. LED with virtually unlimited hours of working life. No need to ever replace bulbs.

:• **Slit Illumination Head.** Allows optimal instrumentation with magnification and illumination. Clears the way for access during examinations.
:• **Multi-coated, scratch-resistant swivel lens with 1.6 x magnification** provides a high-resolution image.
:• **Fiber Optic Illumination.** Ensures homogeneous, very bright illumination and an unobstructed view of the ear canal and tympanum.
:• HEINE has set a new standard which maintains that only the best is good enough, from the selection of materials to processing, from light intensity to dimmability, and from thermal management to a colour rendering index as high as possible.
   That's what we call LED in HEINE Quality – or LED^{HQ}.
:• **Special optical interface to precisely integrate the LED illumination with the optical system** to ensure bright homogeneous light during examinations.
:• **Patented, unique, stepless dimming** from 3 % to 100 % with practical one-finger operation.
:• **Easy cleaning.** Round edges allow easy disinfection, also with standard disinfectants.
:• **Double bayonet lock for specula.** Specula mounted firmly by double lock.
:• **Full functionality of the G 100 LED Slit Illumination Head is guaranteed with BETA Rechargeable Handles and the EN 100 / EN 200 Wall Transformers.**

EXCLUSIVELY AT HEINE
· 1.6 x Magnification
· LED in HQ – Stepless dimmable
· All-metal housing

G 100 LED Slit Illumination Head	LED
with swivel lens	G-008.21.301
Swivel lens, single [01]	G-000.21.209

[01]

HEINE® G 100 Slit Illumination Head

With XHL Illumination

G 100 Slit Illumination Head with XHL Xenon Halogen illumination instead of LED illumination. Other technical specifications the same as the G 100 LED Slit Illumination Head.

:• **XHL Xenon Halogen bulb** with bright illumination and authentic colour rendering.

G 100 Slit Illumination Head	2.5 V XHL	3.5 V XHL
with swivel lens	G-001.21.301	G-002.21.301
XHL Xenon Halogen spare bulb	X-001.88.077	X-002.88.078
Swivel lens, single [01]		G-000.21.209

[01]

HEINE Veterinary Diagnostic Sets

with XHL or LED^{HQ} illumination

Set complete with: **G100 Slit illumination head in XHL or LED**
1 set long, closed specula (57mm x 4mm dia., 65mm x 6mm dia., 90mm x 7mm dia.)
1 spare bulb for XHL version,
hard case

Veterinary Diagnostic Sets	2.5V XHL	3.5V XHL	LED
BETA battery handle	G-112.10.118		
BETA4 USB rechargeable handle with USB cord and plug-in power supply		G-112.27.388	G-112.28.388
BETA4 USB rechargeable handle		G-112.27.387	G-112.28.387
BETA4 NT rechargeable handle with NT4 table charger		G-112.23.420	G-112.24.420

with XHL or LED^{HQ} illumination

Set complete with:
G100 Slit illumination head, BETA200 Ophthalmoscope both in XHL or LED,
1 set long, closed specula (57mm x 4mm dia., 65mm x 6mm dia., 90mm x 7mm dia.)
1 spare bulb each for XHL version,
hard case

Veterinary Diagnostic Sets	2.5V XHL	3.5V XHL	LED
BETA battery handle	G-148.10.118		
BETA4 USB rechargeable handle with USB cord and plug-in power supply		G-148.27.388	G-148.28.388
BETA4 USB rechargeable handle		G-148.27.387	G-148.28.387
BETA4 NT rechargeable handle with NT4 table charger		G-148.23.420	G-148.24.420

HEINE Operating Otoscope

The greatest flexibility and most options for instrumentation

An all-round otoscope for instrumentation under magnification. Both the lens and speculum can be swivelled. For use with reusable specula and UniSpec disposable specula. With tip-adaptor (B-000.11.306) it is also possible to use AllSpec disposable tips.

:∙ **Open construction.** Ideal for instrumentation.
:∙ **XHL Xenon Halogen Technology.** Extremely bright, white light.
:∙ **Swivelling lens and speculum.** Clears the way for access and examination under magnification and illumination.
:∙ **2.5x lens in protective frame.** Prevents scratching.
:∙ **The relative positions of light bulb and speculum can be fixed.** Helps with instrumentation, easily returned to normal position.

Operating Otoscope	2.5V XHL	3.5V XHL
with 1 set = 6 reusable specula, without handle	B-001.11.494	B-002.11.494
without specula, without handle	B-001.11.492	B-002.11.492

XHL Xenon Halogen spare bulb	X-001.88.037	X-002.88.049

HEINE BETA® 200 LED VET F.O. Otoscope

Veterinary Otoscope with LED^{HQ} illumination

LED HQ
LED NOW IN HEINE QUALITY.

The otoscope has been designed with an all metal housing and scratch resistant glass lenses which guarantee a lifetime of maintenance-free use. LED with virtually unlimited hours of working life. No need to ever replace bulbs.
Maintenance-free for a lifetime.

:. **Large, scratch-resistant glass viewing window with 2.5 x magnification.** Specially developed lens for veterinary medicine. Focal length is designed specifically for use with longer specula.

:. **Fiber Optic Illumination.** Ensures homogeneous, very bright illumination and an unobstructed view of the ear canal and tympanum.

:. HEINE has set a new standard which maintains that only the best is good enough, from the selection of materials to processing, from light intensity to dimmability, and from thermal management to a colour rendering index as high as possible.
That's what we call LED in HEINE Quality – or LED^{HQ}.

:. **Special optical interface to precisely integrate the LED illumination with the optical system** to ensure bright homogeneous light during examinations.

:. **Patented, unique, stepless dimming** from 3 % to 100 % with practical one-finger operation.

:. **Swivelling viewing window built into instrument.** Useful for instrumentation, cannot be mislaid.

:. **Insufflation port.** Reliable test of tympanic mobility.

:. **For use with reusable SANALON S VET Specula** (G-000.21.213).

:. **Full functionality of the BETA 200 LED VET is guaranteed with BETA Rechargeable Handles and the EN 100 / EN 200 Wall Transformers.**

▶ **EXCLUSIVELY AT HEINE**
· 2.5 x Magnification
· LED in HQ – Stepless dimmable
· All-metal housing
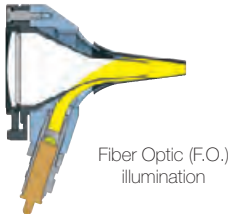
BETA 200 LED VET F.O. Otoscope	LED
without specula, without handle	G-008.21.250

Fiber Optic (F.O.)
illumination

HEINE BETA® 200 VET F.O. Otoscope

Veterinary Otoscope with XHL illumination

BETA 200 VET F.O. Otoscope with XHL Xenon Halogen illumination instead of LED illumination. Other technical specifications the same as the BETA 200 LED VET F.O. Otoscope.

:. **XHL Xenon Halogen bulb** with bright illumination and authentic colour rendering.

BETA 200 VET F.O. Otoscope	2.5V XHL	3.5V XHL
without specula, without handle	G-001.21.250	G-002.21.250
XHL Xenon Halogen spare bulb	X-001.88.077	X-002.88.078

HEINE BETA®100 VET Otoscope

Veterinary Otoscope with direct illumination

Otoscope with all-metal construction and direct Xenon Halogen illumination. Suitable for use with short, closed specula. With the use of the VET adaptor (G-000.21.214), it is possible to fit reusable VET specula for ear examinations.

:· **All-metal housing.** Exceptionally-tough and long-lasting.
:· **XHL Xenon Halogen Technology.** Extremely bright, white light.
:· **Large, scratch-resistant glass viewing window with 2.5x magnification.** Unobstructed view, distortion-free image.
:· **Swivelling viewing window built into instrument.** Useful for instrumentation, cannot be mislaid.
:· **Insufflation port.** Reliable test of tympanic mobility.
:· **Can be used with short, closed specula** G-000.21.316 **(no adaptor required).**
:· **Versatile, useful for very small animals.**
:· **Instrument head matt-black inside.** Eliminates reflexes.

BETA100 VET Otoscope	2.5V XHL	3.5V XHL
without specula, without handle	**G-001.21.260**	**G-002.21.260**
XHL Xenon Halogen spare bulb	**X-001.88.037**	**X-002.88.049**

Direct Xenon Halogen illumination

HEINE Reusable VET specula

A VET adaptor [01] is required for use of VET reusable tips on the BETA 100 VET.

:· **Made of high-density SANALON S with a smooth external surface.** Dust and germs are easily removed. Disinfection and autoclaving at up to 134 °C is possible.
:· **Ergonomic shape.** Atraumatic.
:· **Convenient fixation system.** Positive fit to otoscope head.

9 mm dia.   6 mm dia.   4 mm dia.

Reusable SANALON S specula	
for BETA 200 VET and BETA 100 VET with adaptor	
1 set = 3 reusable SANALON S specula	**G-000.21.213**
61 mm long / 4 mm dia.	**G-000.21.210**
61 mm long / 6 mm dia.	**G-000.21.211**
61 mm long / 9 mm dia.	**G-000.21.212**
Adaptor for reusable SANALON S VET specula [01]	**G-000.21.214**
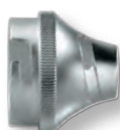
[01]

Long, closed metal specula

:- **Metal construction, chrome-plated.** Easy to clean, disinfect and sterilize.
:- **Double bayonet lock for specula.** Firm mounting of specula to head.

Closed specula	
for G100 / G100 LED Slit Illumination Head	
57 mm long / 4 mm dia.	G-000.21.330
65 mm long / 6 mm dia.	G-000.21.331
90 mm long / 7 mm dia.	G-000.21.332
170 mm long / 10 mm dia.	G-000.21.350

57 mm   65 mm   90 mm   170 mm
4 mm dia.   6 mm dia.   7 mm dia.   10 mm dia.

Slit metal specula, open

:- **High-quality chrome-plated metal construction.** Easy to clean, disinfect and sterilize.
:- **Matt internal surfaces.** Reduced reflexes.
:- **60° opening with rounded edges.** Ideal for instrumentation, atraumatic insertion.
:- **Double bayonet fitting.** Positive fit.

Slit metal specula	
for G100 / G100 LED Slit Illumination Head	
65 mm long / 6 mm dia.	G-000.21.341
90 mm long / 7 mm dia.	G-000.21.342

65 mm long   90 mm long
6 mm dia.   7 mm dia.

Spreadable speculum for Slit Illumination Head

This versatile instrument is widely used as a universal speculum for small animals.

:- **Distal jaw opens up to 28 mm with 4 click-stops.** Useful for examination and therapy.
:- **High-quality, chrome-plated metal construction.** Easy to clean, disinfect and sterilize.
:- **Matt internal surfaces.** Avoids reflexes.
:- **Oval branches with rounded edges.** Ideal for instrumentation, atraumatic.
:- **2 bayonet locks.** Firm mounting of spreadable Speculum to head.

Spreadable speculum	
for G100 / G100 LED Slit Illumination Head	
Spreadable speculum for Slit Illumination Head (95 mm long)	G-000.21.360

General Medicine,
ENT & VET

Short, closed specula

:- **Made of high-density SANALON S with a smooth external surface.** Dust and germs are easily removed. Common germicides can be used. Autoclavable at up to 134 °C.
:- **Ergonomic shape.** Painless atraumatic insertion.
:- **Integral metal ring with 2 bayonet locks.** Firm mounting of specula to head.
:- **40 mm long.**

5.5 mm dia.   4.5 mm dia.   3.5 mm dia.

2.8 mm dia.   2.2 mm dia.

Short, closed SANALON S specula	
for G100 / G100 LED Slit Illumination Head and BETA100 VET Otoscope	
1 set = 5 veterinary specula in SANALON S	**G-000.21.316**
40 mm long / 2.2 mm dia.	**G-000.21.310**
40 mm long / 2.8 mm dia.	**G-000.21.311**
40 mm long / 3.5 mm dia.	**G-000.21.312**
40 mm long / 4.5 mm dia.	**G-000.21.313**
40 mm long / 5.5 mm dia.	**G-000.21.314**

Reusable Specula

:- **Moulded in high-density SANALON S, smooth surface.** Easy to clean. Common germicides can be used. Autoclavable at up to 134 °C.
:- **Ergonomic Design.** Painless and atraumatic insertion.
:- **Metal security lock with bayonet fitting.** Long-lasting, positive fit to the otoscope.

2.2 mm dia.   2.8 mm dia.   3.5 mm dia.

4.5 mm dia.   5.5 mm dia.   10 mm dia.

Reusable Specula (black)	
for Operating Otoscope	
1 set = 5 ear specula and 1 nose speculum	**B-000.11.221**
3 specula 3.5 / 4.5 / 5.5 mm dia.	**B-000.11.222**
Ear speculum 2.2 mm dia.	**B-000.11.215**
Ear speculum 2.8 mm dia.	**B-000.11.216**
Ear speculum 3.5 mm dia.	**B-000.11.217**
Ear speculum 4.5 mm dia.	**B-000.11.218**
Ear speculum 5.5 mm dia.	**B-000.11.219**
Nose speculum 10 mm dia.	**B-000.11.220**

HEINE UniSpec® Disposable Specula

2.5 mm dia.   4 mm dia.

[01]

The adaptor illustrated [01] is necessary when using UniSpec specula with the G100/G100 LED Slit Illumination Head.

:▪ **No cleaning necessary.** Saves time.
:▪ **Hygienic and safe.** Eliminates cross-infection.
:▪ **Packed in units of 1000.** Assures a competitive price.
:▪ **Original HEINE design and manufacture.** Guaranteed good fit to the instrument head.

UniSpec disposable specula (grey)	
for BETA100 VET, Operating Otoscope and G100/G100 LED Slit Illumination Head	
Pack of 1000 UniSpec disposable specula 2.5 mm dia.	**B-000.11.242**
Pack of 1000 UniSpec disposable specula 4 mm dia.	**B-000.11.241**
Adaptor for use with Slit Illumination Head [01]	**G-000.21.302**

⊗: Single use only.

HEINE AllSpec® Disposable Tips

2.5 mm dia.   4 mm dia.

[01]   [02]

[03]

[04]

A tip adaptor [03] is required for use of AllSpec disposable tips on the BETA 100 VET and on the operation otoscope.

:▪ **For the most secure fit, best light transmission and hygiene,** we recommend the use of **HEINE Otoscope Tips.**
:▪ **Assured quality.** No sharp edges.

AllSpec Disposable tips (grey)	
for BETA100 VET and Operating Otoscope	
Pack of 1000 pcs. 2.5 mm dia. [01]	**B-000.11.128**
Pack of 1000 pcs. 4 mm dia. [01]	**B-000.11.127**
Dispenser pack, single, of 250 tips, 2.5 mm dia [02]	**B-000.11.153**
Dispenser pack, single, of 250 tips, 4 mm dia [02]	**B-000.11.152**
Case of 10 dispenser packs of 250 tips, 2.5 mm dia	**B-000.11.151**
Case of 10 dispenser packs of 250 tips, 4 mm dia	**B-000.11.150**
Adaptor for AllSpec tips [03]	**B-000.11.306**

:▪ **AllSpec Tip-dispenser**
The right size, visible and instantly available. A clean new tip for each and every patient. Contents: 50 pcs. Ø 2.5 mm and 50 pcs. Ø 4 mm.

AllSpec Tip-dispenser (2 x 45 tips) [04]	**B-000.11.149**

⊗: Single use only.

Insufflation Bulb

:▪ **For pneumatic testing.**

Insufflation bulb for BETA 200 VET and BETA 100 VET Otoskope	**B-000.11.240**

If there's something something to **SEE,** you'll **DISCOVER** it.

HEINE

HEINE Direct Ophthalmoscopes

	BETA 200 S	BETA 200 (Opt. 1)	BETA 200 M2 (Opt. 2)	K180 (Opt. 1)	K180 (Opt. 2)	mini 3000
Optical System						
Aspherical	□	□	□			
Conventional				□	□	□
Illumination						
LED HQ illumination	□	□				□
XHL illumination	□	□	□	□	□	□
Apertures						
small spot	□		□			
medium spot	□	□		□	□	□
large spot	□	□	□	□	□	□
half / blue	□	□	□		□	
star		□	□			□
fixation	□	□		□		
slit	□	□	□	□	□	
half circle	□	□	□			□
green (red-free)	□*	□*	□*	□	□	□
Corrective lenses						
Range	- 36 to +38	- 35 to +40	- 35 to +40	- 35 to +40	- 35 to +40	- 20 to +20
Number of lenses	28	27	27	27	27	18
1 D Steps	□					
Dust protection						
Dustproof	□	□	□			
Dust protected				□	□	□
Aluminium frame system	□	□	□			
Instrument size						
Professional	□	□	□	□	□	
Compact						□
Available power sources						
Battery 2.5 V	□	□	□	□	□	□
Rechargeable battery 2.5 V						□
Rechargeable battery 3.5 V	□	□	□	□	□	
Page	051	052	052	056	056	057 / 059

*Red-free filter for all apertures
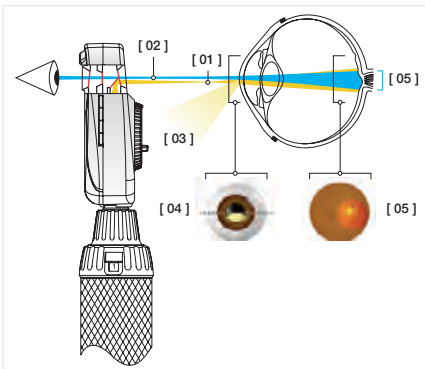
"Aspherical Optical System" (AOS) exclusively from HEINE
eliminates corneal and iris reflexes to provide large, crisp and glare-free fundus images.

[01] Flat, elliptical illumination beam produced by HEINE's Aspherical Optical System.
[02] Observation path.
[03] Redirected iris and corneal reflexes.
[04] The elliptical light beam enters through the lower half of the cornea. The illumination beam has been separated from the observation beam (Gullstrand-Principle). All reflexes are diverted away from the observation beam due to the curvature of the reflective cornea. Due to the flat, compressed form of the light beam, a maximum amount of light enters through the pupil.
[05] Once past the anterior chamber, the light beam opens up dramatically to illuminate a large area of the retina.

Ophthalmic Instruments

HEINE BETA® 200 S LED Ophthalmoscope

Superior aspherical optics with LED^HQ illumination

LED NOW IN HEINE QUALITY.

Exclusive dustproof design protects the precision optical components and ensures maintenance-free operation. The BETA 200 / 200 S Ophthalmoscopes are the only instruments with an aluminium frame system. Optical components are flush-mounted on a cast aluminum frame, eliminating misalignment and making the instrument shock-resistant. The BETA 200 S LED has virtually unlimited hours of working life. No need to ever replace bulbs. Maintenance-free for a lifetime.

:· **Exclusive aspherical optical system (AOS)** for more information see the bottom of page 050.
:· HEINE has set a new standard which maintains that only the best is good enough, from the selection of materials to processing, from light intensity to dimmability, and from thermal management to a colour rendering index as high as possible. **That's what we call LED in HEINE Quality – or LED^HQ.**
:· **Special optical interface to precisely integrate the LED illumination with the optical system** to ensure bright, homogeneous light during examinations.
:· **The BETA 200 S Ophthalmoscope** accommodates higher refractive errors with a **28 single lenses Rekoss Disc** and features a 74 single step design on a non-continuous wheel avoiding extreme diopter jumps.

> \+ in 1 D steps: +1 through +38 D
> – in 1 D steps: –1 through –36 D

:· **Patented, unique, stepless dimming** from 3 % to 100 % with practical one-finger operation.
:· **No stray light due to the recessed, multi-coated viewing window –** eliminates distractions.
:· **Precise one-hand control of the instrument.** Ergonomic design offers flexibility while examining.
:· **Suitable for large as well as small or undilated pupils.**
:· **Ergonomic design** fits the orbita comfortably, and blocks out ambient light.
:· **Full functionality of the BETA 200 S LED is guaranteed with BETA Rechargeable Handels and the EN 100 / EN 200 Wall Transformers.**

EXCLUSIVELY AT HEINE

· Aspherical optical system
· LED in HQ – Stepless dimmable
· Aluminium frame system

BETA 200 S with 7 apertures

Cobalt blue filter, fixation star with polar coordinates, large spot, small spot, pinhole, slit, hemispot

With red-free filter

HEINE AOS film

BETA 200 S LED Ophthalmoscope	LED
without handle	C-008.30.120

HEINE BETA® 200 S Ophthalmoscope

Superior aspherical optics with XHL illumination

BETA 200 S Ophthalmoscope with XHL Xenon Halogen illumination instead of LED illumination. Other technical specifications the same as the BETA 200 S LED Ophthalmoscope.

:· **XHL Xenon Halogen bulb** with bright illumination and authentic colour rendering.

BETA 200 S Ophthalmoscope	2.5 V XHL	3.5 V XHL
without handle	C-001.30.120	C-002.30.120
XHL Xenon Halogen spare bulb	X-001.88.069	X-002.88.070

HEINE BETA® 200 LED Ophthalmoscope

Superior aspherical optics with LED^{HQ} illumination

LED HQ
LED NOW IN HEINE QUALITY.

The ophthalmoscope with unique aspherical optics and all features of the BETA 200 S LED, but:

:• **Without macula aperture (pinhole)**
:• **The BETA 200 Ophthalmoscope** accommodates higher refractive errors with a **27 single lenses Rekoss Disc.**

+ in 1 D steps: 1 – 10	15	20	40		D
– in 1 D steps: 1 – 10	15	20	25	35 D	

BETA 200 LED Ophthalmoscope	LED
without handle	C-008.30.100

:• **Full functionality of the BETA 200 LED is guaranteed with BETA Rechargeable Handels and the EN 100 / EN 200 Wall Transformers.**

EXCLUSIVELY AT HEINE
· Aspherical optical system
· LED in HQ with continuous brightness control
· Aluminium frame system

BETA 200 with 6 apertures

Slit, fixation star with polar coordinates, cobalt blue filter, large spot, small spot, hemispot

With red-free filter

HEINE BETA® 200 Ophthalmoscope

Superior aspherical optics with XHL illumination

The ophthalmoscope with unique aspherical optics and all features of the BETA 200 LED, but:

:• **XHL Xenon Halogen bulb** with bright illumination and authentic colour rendering.

BETA 200 Ophthalmoscope	2.5V XHL	3.5V XHL
without handle	C-001.30.100	C-002.30.100
XHL Xenon Halogen spare bulb	X-001.88.069	X-002.88.070

BETA 200 M2 Ophthalmoscope	2.5V XHL	3.5V XHL
BETA 200 M2 Ophthalmoscope, without handle. Like BETA 200, except with pinhole instead of small spot and with fixation star aperture without polar coordinates.	C-001.30.102	C-002.30.102

BETA 200 M2 apertures

Slit, fixation star, cobalt blue filter, large spot, pinhole, hemispot

With red-free filter

HEINE BETA® 200/200 S Ophthalmic Diagnostic Sets

▶ with XHL or LED^{HQ} illumination

Set complete with: **BETA 200 S Ophthalmoscope in XHL or LED**
1 spare bulb for XHL version, hard case

BETA 200 S Ophthalmoscope Sets	2.5V XHL	3.5V XHL	LED
BETA battery handle	C-261.10.118		
BETA 4 USB rechargeable handle with USB cord and plug-in power supply		C-261.27.388	C-261.28.388
BETA 4 USB rechargeable handle		C-261.27.387	C-261.28.387
BETA 4 NT rechargeable handle with NT 4 table charger		C-261.23.420	C-261.24.420

Set complete with: **BETA 200 Ophthalmoscope in XHL or LED**
1 spare bulb for XHL version, hard case

BETA 200 Ophthalmoscope Sets	2.5V XHL	3.5V XHL	LED
BETA battery handle	C-144.10.118*		
BETA 4 USB rechargeable handle with USB cord and plug-in power supply		C-144.27.388	C-144.28.388
BETA 4 USB rechargeable handle		C-144.27.387	C-144.28.387
BETA 4 NT rechargeable handle with NT 4 table charger		C-144.23.420	C-144.24.420

*Available with large battery handle **X-001.99.120** (doesn't fit into hard cases). Please specify with your order.

Set complete with: **BETA 200 S Ophthalmoscope, BETA 200 Streak Retinoscope both with XHL or LED,**
1 spare bulb for each instrument for XHL version, hard case

BETA 200 S Ophthalmoscope Sets	2.5V XHL	3.5V XHL	LED
BETA battery handle	C-262.10.118		
BETA 4 USB rechargeable handle with USB cord and plug-in power supply		C-262.27.388	C-262.28.388
BETA 4 USB rechargeable handle		C-262.27.387	C-262.28.387
BETA 4 NT rechargeable handle with NT 4 table charger		C-262.23.420	C-262.24.420

Set complete with: **BETA 200 Ophthalmoscope, BETA 200 Streak Retinoscope both with XHL or LED,**
1 spare bulb for each instrument for XHL version, hard case

BETA 200 Ophthalmoscope Sets	2.5V XHL	3.5V XHL	LED
BETA battery handle	C-145.10.118		
BETA 4 USB rechargeable handle with USB cord and plug-in power supply		C-145.27.388	C-145.28.388
BETA 4 USB rechargeable handle		C-145.27.387	C-145.28.387
BETA 4 NT rechargeable handle with NT 4 table charger		C-145.23.420	C-145.24.420

HEINE Diagnostic Sets

with XHL or LED^{HQ} illumination

Set complete with: **BETA 200 Ophthalmoscope, BETA 400 F.O. Otoscope
both in XHL or LED,**
1 set (4 pcs.) of reusable tips (B-000.11.111)
5 of both AllSpec disposable tips 2.5 and 4 mm Ø
one spare bulb each for XHL version
hard case

Diagnostic Sets	2.5 V XHL	3.5 V XHL	LED
BETA battery handle	A-153.10.118		
BETA 4 USB rechargeable handle with USB cord and plug-in power supply		A-153.27.388	A-153.28.388

Set complete: **BETA 200 Ophthalmoscope, BETA 200 F.O. Otoscope
both with XHL or LED,**
1 set of reusable tips (B-000.11.111)
5 of both AllSpec disposable tips 2.5 and 4 mm dia.
one spare bulb each for XHL version
hard case

Diagnostic Sets	2.5 V XHL	3.5 V XHL	LED
BETA battery handle	A-132.10.118		
BETA 4 USB rechargeable handle with USB cord and plug-in power supply		A-132.27.388	A-132.28.388

Set complete: **BETA 200 Ophthalmoscope in XHL or LED,
BETA 100 Diagnostic Otoscope**
1 set of reusable specula (B-000.11.221)
10 UniSpec disposable tips 4 mm dia. (B-000.11.237)
one spare bulb each for XHL version
hard case

Diagnostic Sets	2.5 V XHL	3.5 V XHL	3,5 V XHL/LED*
BETA battery handle	A-234.10.118		
BETA 4 USB rechargeable handle with USB cord and plug-in power supply		A-234.27.388	A-234.25.388
BETA 4 USB rechargeable handle		A-234.27.387	A-234.25.387
BETA 4 NT rechargeable handle with NT 4 table charger		A-234.23.420	A-234.25.420

*BETA 100 Otoscope with XHL illumination and BETA 200 LED Ophthalmoscope with LED illumination.

Ophthalmic
Instruments

HEINE Diagnostic Kits

with XHL or LED^HQ illumination

Kit complete with: **BETA 200 Ophthalmoscope, BETA 400 F.O. Otoscope**
both in XHL or LED,
1 set (4 pcs.) of reusable tips (B-000.11.111)
5 of both AllSpec disposable tips 2.5 and 4 mm Ø
one spare bulb each for XHL version
without hard case

NEW!

Diagnostic Kits	3.5V XHL	LED
2 x BETA 4 NT rechargeable handle with NT 4 table charger	A-153.23.422	A-153.24.422

Kit complete with: **BETA 200 Ophthalmoscope, BETA 200 F.O. Otoscope**
both with XHL or LED,
1 set (4 pcs.) of reusable tips (B-000.11.111)
5 of both AllSpec disposable tips 2.5 and 4 mm Ø
one spare bulb each for XHL version
without hard case

NEW!

Diagnostic Kit	3.5V XHL	LED
2 x BETA 4 NT rechargeable handle with NT 4 table charger	A-132.23.422	A-132.24.422

HEINE K180® Ophthalmoscope

Standard direct ophthalmoscope

A full-featured instrument at an economical price.

:· **Precision spherical HEINE optics.** Corneal and iris reflexes are eliminated.
:· **XHL Xenon Halogen Technology.** Bright, white light. Clear retinal image.
:· **Range of lenses: 27 lenses from -35 D to +40 D.** Brilliant image even at high corrections.

+ in 1D steps: 1 – 10	15	20	40		D
– in 1D steps: 1 – 10	15	20	25	35 D

:· **Ergonomical shape. The instrument fits the orbita comfortably.**
:· **Soft orbital rest.** Steadies the instrument and protects your glasses.
:· **Choice of 5 apertures.** For both large and small pupils. Choice of fixation star or cobalt blue filter for corneal examination.
:· **Dust resistant housing.** Maintenance-free.
:· **High-impact polycarbonate housing for durability.**

:· **Reduces corneal reflex**

:· **Dust resistant**

K180 Ophthalmoscope	2.5V XHL	3.5V XHL
with aperture wheel 1, without handle	**C-001.30.206**	**C-002.30.206**
with aperture wheel 2, with cobalt blue filter, without handle	**C-001.30.207**	**C-002.30.207**
XHL Xenon Halogen spare bulb	**X-001.88.084**	**X-002.88.086**

K180 apertures

Aperture wheel 1:
Slit, red-free filter, fixation star with polar coordinates, large spot, small spot

Aperture wheel 2:
Slit, red-free filter, cobalt blue filter, large spot, small spot

HEINE K180® Diagnostic Sets

Set complete with: **K180 Ophthalmoscope,** in standard version with aperture wheel 1 soft pouch

K180 Ophthalmoscope Sets	2.5V XHL	3.5V XHL
BETA battery handle	**C-182.10.118**	
BETA 4 USB rechargeable handle with USB cord and plug-in power supply		**C-182.27.388**
BETA 4 USB rechargeable handle		**C-182.27.387**
BETA 4 NT rechargeable handle with NT 4 table charger		**C-182.23.420**

Set complete with: **K180 Ophthalmoscope,** in standard version with aperture wheel 1
K180 F.O. Otoscope
1 set of reusable tips (B-000.11.111)
hard case

K180 Diagnostic Sets	2.5V XHL	3.5V XHL
BETA battery handle	**A-279.10.118**	
BETA 4 USB rechargeable handle with USB cord and plug-in power supply		**A-279.27.388**
BETA 4 USB rechargeable handle		**A-279.27.387**
BETA 4 NT rechargeable handle with NT 4 table charger		**A-279.23.420**

Ophthalmic
Instruments

HEINE mini 3000® LED Ophthalmoscope

With LED illumination in HEINE Quality – LED^{HQ}

LED^{HQ}
LED NOW IN HEINE QUALITY.

Modern ophthalmoscope with maintenance-free LED illumination. Its brightness and colour rendering are comparable with a HEINE XHL Xenon Halogen Ophthalmoscope.

:. **Maintenance-free,** no need to ever replace the LED.
:. LED Thermal management for a **consistent light output throughout the whole working life.**
:. HEINE has set a new standard which maintains that only the best is good enough, from the selection of materials to processing, from light intensity and thermal management to a colour rendering index as high as possible.
That's what we call LED in HEINE Quality – or LED^{HQ}.
:. **Exclusive Battery Performance Indicator:** When the instrument is switched on, the maximum light intensity is shown, then the light intensity is regulated down to the level that corresponds to the current charge status of the battery so you know when your batteries need changing.
:. **Fade-Out Feature:** brightness reduces slowly even with low residual capacity, for even more efficient use of dry or rechargeable batteries.
:. **Operation time typ. 10 hours.** The batteries need to be changed less often and the rechargeable batteries last longer.

:. **For further technical specifications, please see mini 3000 Ophthalmoscope with XHL illumination on page 059.**

:. Maintenance-free pocket instrument

:. Optimal colour rendering

:. Typ. 10 hours operation time

mini 3000 LED Ophthalmoscope	2.5 V LED
with mini 3000 battery handle, with batteries	D-008.71.120
with mini 3000 rechargeable handle (please order mini NT table charger separately)	D-008.71.200
without handle	D-008.71.105

mini 3000 apertures

Fixation star, large spot, small spot, hemispot, red-free filter

HEINE mini 3000 pocket instruments – a complete range of quality diagnostic instruments for your pocket. Available in black or blue. Please specify the colour you prefer when ordering. If not otherwise specified, we will supply black instruments.

To upgrade to a rechargeable instrument with mini NT table charger, please see page 145.

HEINE mini 3000® LED Diagnostic Sets

LED NOW IN HEINE QUALITY.

Set complete with: **mini 3000 LED Ophthalmoscope**
hard case

mini 3000 LED Ophthalmoscope Set	2.5 V LED
mini 3000 battery handle with batteries	**D-885.21.021**

Set complete with: **mini 3000 LED Ophthalmoscope, mini 3000 LED F.O. Otoscope**
1 set = 4 reusable tips (B-000.11.111)
5 of both 2.5 and 4 mm dia. AllSpec disposable tips
hard case

mini 3000 LED Ophthalmoscope, mini 3000 LED F.O. Otoscope Set	2.5 V LED
with **2** mini 3000 battery handles with batteries	**D-886.11.021**

Set complete with: **mini 3000 LED Ophthalmoscope, mini 3000 LED F.O. Otoscope**
mini NT table charger
5 of both 2.5 and 4 mm dia. AllSpec disposable tips

mini 3000 LED Ophthalmoscope, mini 3000 LED F.O. Otoscope Set	2.5 V LED
with **2** mini 3000 rechargeable handles	**D-860.11.022***

*with this Art. No. only available in black.

Ophthalmic
Instruments

HEINE mini 3000® Ophthalmoscope

Compact Pocket Ophthalmoscope with XHL illumination

Modern pocket ophthalmoscope with XHL Xenon Halogen bulb technology. Concentrated bright light for perfect illumination, a brilliant image and accurate colour rendering. Fixation star aperture with grey filter for reducing the light intensity. Excellent optics and best colour rendering in minimum dimensions, ideal for rounds and house calls. Can be used with the mini 3000 handle system. Available in black and blue.

:· **HEINE optics produce crisp, clear images of the whole area under examination** and minimise reflections.
:· **5 different apertures.** A full-function instrument incl. fixation star.
:· Grey filter for light-sensitive patients.
:· **Range of lenses: 18 lenses from -20 D to +20 D.**

+	1	2	3	4	6	8	10	15	20 D
−	1	2	3	4	6	8	10	15	20 D

:· **Easy workflow,** because ophthalmoscopy is possible without dilation of the pupils.
:· **Attachment clip with integrated on/off switch.** Switches off automatically when returned to the pocket.
:· **Replaceable batteries.** Size AA, or optional rechargeable battery with mini NT table charger.*
:· **2-piece handle and head.** Easy to maintain, flexible.
:· **Award-winning design.** Maximum quality with minimum dimensions.

:· Modern pocket instrument

:· 5 different apertures

:· Dust resistant

mini 3000 Ophthalmoscope	2.5 V XHL
with mini 3000 battery handle, with batteries	D-001.71.120
with mini 3000 rechargeable handle (please order mini NT table charger separately)	D-001.71.200
without handle	D-001.71.105
XHL Xenon Halogen spare bulb	X-001.88.106

mini 3000 apertures

Fixation star, large spot, small spot, hemispot, red-free filter

HEINE mini 3000 pocket instruments – a complete range of quality diagnostic instruments for your pocket. Available in black or blue. Please specify the colour you prefer when ordering. If not otherwise specified, we will supply black instruments.

HEINE mini 3000® Diagnostic Sets

Set complete with: **mini 3000 Ophthalmoscope**
hard case

mini 3000 Ophthalmoscope Set	2.5 V XHL
mini 3000 battery handle with batteries	D-852.10.021

Set complete with: **mini 3000 Ophthalmoscope, mini 3000 F.O. Otoscope**
1 set = 4 reusable tips (B-000.11.111)
5 of both 2.5 and 4 mm dia. AllSpec disposable tips
hard case

mini 3000 Ophthalmoscope, mini 3000 F.O. Otoscope Set	2.5 V XHL
with **2** mini 3000 battery handles with batteries	D-873.11.021
as above but with **mini 3000 Otoscope** instead of **mini 3000 F.O. Otoscope**	D-873.21.021

Set complete with: **mini 3000 Ophthalmoscope, mini 3000 F.O. Otoscope**
mini NT table charger
5 of both 2.5 and 4 mm dia. AllSpec disposable tips

mini 3000 Ophthalmoscope, mini 3000 F.O. Otoscope Set	2.5 V XHL
with **2** mini 3000 rechargeable handles	D-859.11.022*

*with this Art. No. only available in black.

HEINE mini 3000 pocket instruments – a complete range of quality diagnostic instruments for your pocket. Available in black or blue. Please specify the colour you prefer when ordering. If not otherwise specified, we will supply black instruments.

Ophthalmic
Instruments

Iris
Pupil — Retinal Reflex

Streak
image outside
the pupil

With motion
Hyperopia/
Presbyopia

Against motion
Myopia

Streak angle
change
Astigmatism
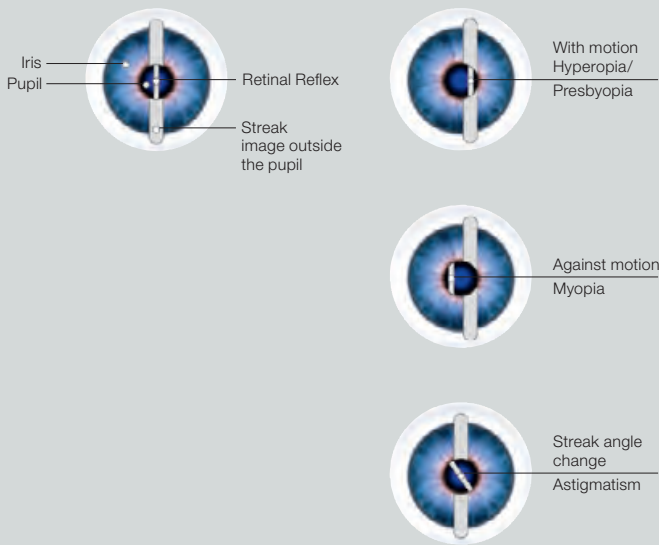
Hand-held retinoscopes for objective refraction.

The BETA 200 Retinoscope is used for the exact measurement of the refractive error. Both myopia and hyperopia as well as astigmatism can be measured.

Two versions are available:
The Spot Retinoscope with a round light spot (available only as XHL variant) and the more widely-used Streak Retinoscope with a streak image which simplifies the examination.

*HEINE ParaStop

The BETA 200 Retinoscope with ParaStop features the latest multi-coated optics for an exceptionally bright fundus reflex and easier detection of the neutralisation point. ParaStop was developed by HEINE for the easy, precise selection of a parallel illumination beam. ParaStop simplifies and speeds up the precise detection of cylinder axis. ParaStop also simplifies the verification of the cylinder correction after refraction.

HEINE BETA® 200 LED Retinoscope with HEINE ParaStop®

With LED illumination in HEINE Quality – LED HQ

LED HQ
LED NOW IN HEINE QUALITY.

Homogenous LED illumination for precise streak image quality offers an easy and quick observation of the fundus reflex.

:· **ParaStop.** Precise, easy selection of a parallel beam.*
:· **Brilliant, precise streak image** with a line width of typically 1.1 mm (ISO 12865 Standard < 1.5 mm) and a line length of 35 mm for a very bright, readily visible fundus reflex.
:· HEINE has set a new standard which maintains that only the best is good enough, from the selection of materials to processing, from light intensity to dimmability, and from thermal management to a colour rendering index as high as possible.
   That's what we call LED in HEINE Quality – or LED HQ.
:· **Patented, unique, stepless dimming** from 3 % to 100 % with practical one-finger operation.
:· **Ergonomic shape.** Protects the examiner's orbita from stray light.
:· **Metal controls.** Long-lasting.
:· **Single control for vergence and rotation.** Comfortable operation.
:· **Maintenance-free.** Dustproof. LED with virtually unlimited hours of working life.
:· **Integrated polarisation filter.** Eliminates stray light and internal reflexes for a brighter fundus reflex.
:· **Detachable brow rest.** Increased comfort and control during examination.
:· **Holder for fixation cards (optional).** For dynamic retinoscopy.
:· **Full functionality of the BETA 200 LED is guaranteed with BETA Rechargeable Handles and the EN 100 / EN 200 Wall Transformers.**

EXCLUSIVELY AT HEINE
· ParaStop
· Highly visible, bright fundus reflex
· Metal controls

BETA 200 LED Streak Retinoscope	LED
without handle	C-008.15.353

Fixation cards with holder for dynamic retinoscopy	C-000.15.360

HEINE BETA® 200 Retinoscope with HEINE ParaStop®

With XHL illumination

Technical specifications as for BETA 200 LED Retinoscope, except:

:· **XHL Xenon Halogen Technology.**
:· **Streak or Spot Retinoscope.** Simply by changing the bulb.
:· **Orange filter (optional).** Reduces patient dazzle without affecting the fundus reflex.

BETA 200 Streak Retinoscope	2.5V XHL	3.5V XHL
with XHL Xenon Halogen bulb, without handle	C-001.15.353	C-002.15.353
XHL Xenon Halogen spare bulb	X-001.88.087	X-002.88.089
XHL Xenon Halogen spare bulb to convert to **Spot Retinoscope**	X-001.88.088	X-002.88.090

Orange filter for the bulb, for light-sensitive patients [01]	C-000.15.359
Fixation cards with holder for dynamic retinoscopy	C-000.15.360

[01]

Ophthalmic
Instruments

HEINE Ophthalmic Diagnostic Sets

with XHL or LED^{HQ} illumination

Set complete with: **BETA 200 Streak Retinoscope in XHL or LED**
1 spare bulb for XHL version,
hard case

BETA 200 Retinoscope Sets	2.5V XHL	3.5V XHL	LED
BETA battery handle	C-034.10.118*		
BETA 4 USB rechargeable handle with USB cord and plug-in power supply		C-034.27.388	C-034.28.388
BETA 4 USB rechargeable handle		C-034.27.387	C-034.28.387
BETA 4 NT rechargeable handle with NT 4 table charger		C-034.23.420	C-034.24.420

*Also available with large battery handle **X-001.99.120** (doesn't fit into hard cases). Please specify with your order.

Set complete with: **BETA 200 S Ophthalmoscope, BETA 200 Streak Retinoscope
both with XHL or LED,**
1 spare bulb for each instrument for XHL version
hard case

BETA 200 S Diagnostic Sets	2.5V XHL	3.5V XHL	LED
BETA battery handle	C-262.10.118		
BETA 4 USB rechargeable handle with USB cord and plug-in power supply		C-262.27.388	C-262.28.388
BETA 4 USB rechargeable handle		C-262.27.387	C-262.28.387
BETA 4 NT rechargeable handle with NT 4 table charger		C-262.23.420	C-262.24.420

Set complete with: **BETA 200 Ophthalmoscope, BETA 200 Streak Retinoscope
both with XHL or LED,**
1 spare bulb for each instrument for XHL version
hard case

BETA 200 Diagnostic Sets	2.5V XHL	3.5V XHL	LED
BETA battery handle	C-145.10.118		
BETA 4 USB rechargeable handle with USB cord and plug-in power supply		C-145.27.388	C-145.28.388
BETA 4 USB rechargeable handle		C-145.27.387	C-145.28.387
BETA 4 NT rechargeable handle with NT 4 table charger		C-145.23.420	C-145.24.420

HEINE® HSL 150 Hand-held Slit Lamp

For the examination of the anterior segment

Compact and lightweight, the portable HSL 150 is ideal for situations where a full-size slit lamp is not available or convenient. For the examination of the anterior segment in Human- and Veterinary medicine.

:· **Slit size adjustable** from 0.2 mm x 10 mm to 4 mm x 14 mm.
:· **6 x magnification.**
:· **Blue interference filter (FITC),** can be selected for corneal examination.
:· **Multi-coated optics for maximum light transmission.**
:· **2.5 V or 3.5 V XHL Xenon Halogen Technology** for bright, white light comparable with the brightness of a classic slit lamp.
:· **The HSL 150 instrument head weighs just 70 g,** the lightest slit lamp of its kind.

:· Continuous slit adjustment

:· Blue filter

:· Ideal for domiciliary visits

HSL 150 for BETA or BETA SLIM handles	2.5 V XHL	3.5 V XHL
HSL 150, head only	C-001.14.602	C-002.14.602
XHL Xenon Halogen spare bulb	X-001.88.098	X-002.88.099
Replacement blue filter attachment for HSL 150		C-000.14.605

HEINE® HSL 10 x Loupe Attachment

Loupe attachment with 10 x magnification

For HSL 150. With precision magnification optics for crisp, clear images.

:· **10 x magnification** when combined with HSL 150 Loupe.
:· **Increased working distance** from examiner to patient.
:· **Large field of view.**
:· **With an additional detachable eyepiece** to steady the instrument on the brow and avoid stray light. Can be replaced with a soft cap, suitable for spectacle-wearers.

HSL 10 x Loupe Attachment	C-000.14.606

HEINE® HSL 150 Hand-held Slit Lamp Sets

[01]

Set complete with: **HSL 150 Hand-held Slit Lamp**
BETA SLIM handle (compact)

Hand-held Slit Lamp Sets	2.5 V XHL	3.5 V XHL
BETA SLIM battery handle, in soft pouch, without spare bulb [01]	C-252.10.105	
BETA 4 SLIM NT rechargeable handle and NT 4 table charger*, spare bulb, in hard case		C-266.20.471

*NT 4 table charger incl. reducer insert

HEINE® LAMBDA 100 Retinometer

For assessing potential visual acuity

The LAMBDA 100 Retinometer is the first compact instrument for assessing potential visual acuity of patients with cataracts and other opacities.
LAMBDA 100 – clinically tested with excellent results.*

:· **Simple, easy-to-use controls.** Reliable diagnosis, easy to operate.
:· **Compact, lightweight (100 g).** Can be used anywhere – even bedside.
:· **XHL Xenon Halogen Technology and brightness control.** Avoids patients discomfort from dazzle.

Three simple steps for assessing potential visual acuity with LAMBDA 100
1. Switch on instrument, select acuity, adjust pattern of lines, reduce ambient lighting.
2. Rest Retinometer against the patient's forehead. Scan the pupil with the red light spot to find a "window" through which the patient can recognise the pattern of lines.
3. Select progressively finer lines with different angles until the patient can no longer recognise the angle. The value of the last recognisable angle indicates potential acuity.

EXCLUSIVELY AT HEINE
· Light and compact
· USB charging facility
· Clinically tested

[01]

LAMBDA 100 Retinometer	2.5 V XHL	3.5 V XHL
with acuity scale 20/300 to 20/25 (scale 2), without handle	C-001.35.015	C-002.35.015
with decimal scale 0.06 to 0.8 (scale 1), without handle	C-001.35.010	C-002.35.010
XHL Xenon Halogen spare bulb	X-001.88.077	X-002.88.078
Patient card [01]		C-000.35.005

LAMBDA 100 Retinometer Kits	3.5 V XHL
Kit 1: LAMBDA 100 with acuity scale (scale 2), 1 Patient card, BETA 4 USB rechargeable handle with USB cord and plug-in power supply, spare bulb, without hard case	C-037.27.388
Kit 2: LAMBDA 100 with decimal scale (scale 1), 1 Patient card, BETA 4 USB rechargeable handle with USB cord and plug-in power supply, spare bulb, without hard case	C-038.27.388

0° Visus = 0.5 $\left(\frac{20}{40}\right)$ 45° Visus = 0.32 $\left(\frac{20}{60}\right)$ 90° Visus = 0.06 $\left(\frac{20}{300}\right)$

LAMBDA 100 Examples of various acuity grating patterns (visual angle 1°)

Ophthalmic Examination Lamp

For examination of the anterior segment and cornea in focal light

:· **Small and light.** Ideal for house calls and rounds.
:· **5 different apertures.** Helps detect erosion, edema and foreign bodies on the cornea.
:· **Apertures focused at 100 mm working distance.**

Ophthalmic Examination Lamp	2.5V XHL	3.5V XHL
without handle	C-001.14.400	C-002.14.400
XHL Xenon Halogen spare bulb	X-001.88.032	X-002.88.047

Aperture combination

Slit, three different spots, cobalt blue filter for fluorescence examination

HEINE Finoff Transilluminator

For scleral transillumination
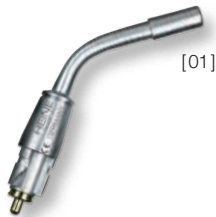
:· **Detachable Cobalt blue filter.** Suitable for fluorescence examinations.

Finoff Transilluminator	2.5V XHL	3.5V XHL
for scleral transillumination, without handle	C-001.17.080	C-002.17.080
XHL Xenon Halogen spare bulb	X-001.88.077	X-002.88.078
Aperture with Cobalt blue filter for Finoff Transilluminator [01]		C-000.17.081

[01]

Ophthalmic Instruments

LED HQ

LED NOW IN HEINE QUALITY.

HEINE iC 2
Application film

Free
HEINE iC 2 App

EXCLUSIVELY AT HEINE
· Broad field of view
· High resolution images
· Mobile documentation

HEINE® iC 2 Funduscope

Mobile, digital ophthalmoscopy

:· **Always with you wherever you are.** With a weight of just 300 g, practical dimensions and cable-free operation, it's ideal for examining children as well as bedridden, injured and disabled patients.

:· **Comfortable for both the doctor and patient.** In addition to the conveniently longer working distance for both sides, full adjustment of LED brightness is particularly pleasant for the patient. Needless to say, it corresponds to the highest international standard for photobiological safety.

:· **Continuous dioptre compensation.** Adjustable from +15 to -15 dioptres, complemented by autofocus with +/-3 dioptres.

:· **High-quality fundus images:** Optical precision lens system with 4 aspherical high-performance lenses. Convenient documentation of completed examinations. Excellent imaging quality at up to 12 MP**.

:· **Field of view up to 34°.** The angle of view is therefore approximately four times as big as that of conventional direct ophthalmoscopes with 9°.

:· **Straightforward scanning of the periphery,** simply by tilting the iC 2 back and forth.

:· HEINE has set a new standard which maintains that only the best is good enough, from the selection of materials to processing, from light intensity and thermal management to a colour rendering index as high as possible.
 That's what we call LED in HEINE quality – or LED^HQ.

:· **NEW!** **Set it down and charge in one step.** The new iC 2 Charger is the world's first inductive charging station to receive approval for a medical product.
 Say goodbye to charging cables!

:· **A film says more than a thousand words.** A brief film shows you just how practical, simple and fast fundus photography can be. Scan this QR code or go to www.heine.com/video/heine_ic2_en_gb/.

:· **See for yourself what the iC 2 app is capable of:** intuitive localisation of images, continuous magnification, storage of additional patient data, documentation of the current situation and, most notably, provision of images via email.

iC 2 Set/7 for iPhone 7 and 8	LED
iC 2 with mounting case smartphone iC 2/7 for Apple® iPhone® 7 and 8*, iC 2 Charger, USB cord with E4-USB medical approved plug-in power supply and case	**C-152.40.211**

iC 2 Set/6 for iPhone 6/6s	LED
See above, but with mounting case smartphone iC 2/6 for Apple iPhone 6/6s*	**C-151.40.211**

iC 2 Set/5 for iPhone 5s and SE	LED
See above, but with mounting case smartphone iC 2/5 for Apple iPhone 5s and SE*	**C-150.40.211**

Accessories	
USB cord with E4-USB medical approved plug-in power supply	**X-000.99.303**
Mounting case smartphone iC 2/7 for Apple iPhone 7/8	**C-000.33.152**
Mounting case smartphone iC 2/6 for Apple iPhone 6/6s	**C-000.33.151**
Mounting case smartphone iC 2/5 for Apple iPhone 5s/SE	**C-000.33.150**
Case for iC 2	**C-150.00.000**

* The Apple iPhone is not included in the scope of delivery. Apple, the Apple logo and iPhone are trademarks of Apple Inc., registered in the U.S. and other countries. App Store is a service mark of Apple Inc.
** With iPhone from Version 6s

Due to local regulations, some products may not be available in your country.

HEINE Indirect Ophthalmoscopes

LED^HQ — OMEGA 500

LED^HQ — SIGMA 250 (SIGMA 250 / SIGMA 250 M2)

	OMEGA 500	SIGMA 250	SIGMA 250 M2
Convergence and parallax adjustment			
Synchronized	□		
Separate		□	□
Apertures			
●	□		□
●	□	□	
●	□	□	□
Diffusor	□	optional	optional
Filters			
🔵	□	optional	optional
🟡	□	optional	optional
🟢	□	□	□
Versions			
LED^HQ illumination	□	□	□
XHL illumination	□		
Headband	□	optional	optional
S-FRAME		□	□
Teaching mirror	optional	optional	optional
Product variant with integrated camera	optional		
Brightness control			
On the Instrument	□		
On the power source		□	□
Mobile power supply			
Headband-mounted battery			
mPack UNPLUGGED	□		
mPack	□		
mPack mini		□	□
Stationary power supply			
EN 50 Table- or / Wall transformer	□		
Plug-in transformer	□		
Page	069 - 073	074/075	
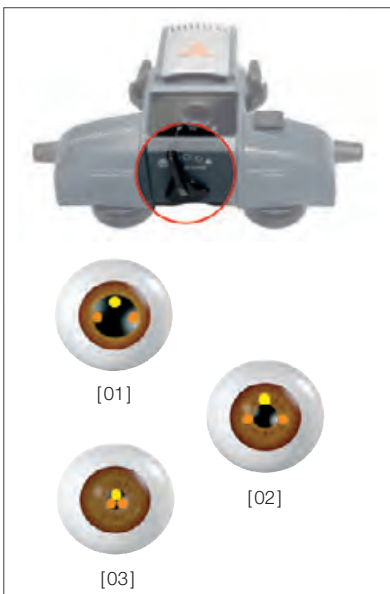
Synchronized Convergence and Parallax Adjustment System

The advanced One-Step Small and Variable Pupil Control maximizes stereopsis in dilated pupils and allows for the instant adjustment of the optical system to ensure fully illuminated, stereoscopic views through pupils as small as 1 mm in diameter.

:· **Dilated Pupil.** In the case of a dilated pupil, the HEINE Synchronized Convergence and Parallax Adjustment System adjusts the left and right observation paths as far apart as possible (large angle of convergence) providing for maximum stereopsis (depth perception). The illumination beam is automatically positioned as high as possible relative to the observation plane (creating a large angle of parallax) in order to maximise illumination and minimise unwanted reflections **[01]**.

:· **Undilated Pupils and viewing in the Periphery.** In cases of pupils that can not, or should not be dilated, a binocular view with full illumination is not possible without adjustments of the optical system **[02]**. By adjusting the Small and Variable Pupil Control Lever located on the bottom of the OMEGA Series instruments, the angle of convergence between left and right observation paths is reduced and the angle of parallax (light path) is automatically reduced in one, simple step. The observer can now enjoy a fully illuminated, binocular view with excellent stereopsis **[03]** even through a pupil as small as 1 mm in diameter, or in cases where the pupil appears as an ellipse as a result of viewing the periphery.

[01]

[02]

[03]

Ophthalmic Instruments

HEINE OMEGA® 500 Binocular Indirect Ophthalmoscope

Quality with LED^{HQ} or XHL illumination

With its LED^{HQ} or XHL technology and perfect colour rendering, the OMEGA 500 has set the standard for reliability and performance.

:• **Unique "Synchronized Adjustment of Convergence and Parallax"** for high quality, stereoscopic fundus images through any pupil size. Precise selection of the observation and illumination optics for small pupils down to 1.0 mm.
:• **Excellent optical performance due to the multi-coated illumination system.** Exact vertical alignment of the illumination with the observation path further minimising the reflections.
:• **Due to the mounting of the optics on an aluminium frame,** the OMEGA 500 is solid, long lasting, and is guaranteed to be dustproof.
:• **The HC 50 L Headband Rheostat controls the LED^{HQ} illumination as well as the XHL Xenon-Halogen illumination.**

:• LED^{HQ} or XHL technology
:• Unique synchr. adjustment
:• Dustproof

Technical Specifications:
:• **Apertures and Filters:** Can be "locked" into a desired position.
:• **Adjustment Levers:** Also feature a "Friction-Clutch" ("Safety-Clutch") to protect mechanisms from forced adjustment while in the "lock" position.
:• **Increased PD Range:** From 46 – 74 mm.
:• **Soft Touch Controls:** All key adjustment controls feature soft touch surfaces for precise and positive adjustment control.

HEINE OMEGA 500
Operation film

HEINE OMEGA 500
Accessories film

Separate fine-tuning of the illumination beam ± 4° in addition to synchronised convergence and parallax adjustment.

HEINE Diffuser, 3 integrated spot sizes: small spot, medium and large. 3 integrated filters: red-free, cobalt blue and yellow filters.

Synchronised adjustment of convergence and parallax.

LED NOW IN HEINE QUALITY.

LED^{HQ}-Technology for HEINE OMEGA® 500:

LED now in HEINE quality. The sophisticated LED^{HQ} system provides for longer operation time, exact dimmability and excellent colour rendering.

:• HEINE has set a new standard which maintains that only the best is good enough, from the selection of materials to processing, from light intensity to dimmability, and from thermal management to a colour rendering index as high as possible. **That's what we call LED in HEINE Quality – or LED^{HQ}.**
:• **Special optical interface to precisely integrate the LED illumination with the optical system** to ensure bright, homogeneous light throughout the whole working life of the LED – for an accurate diagnosis.
:• With the **Rheostat HC 50 L** the light intensity can be precisely adjusted – especially in the range of low light intensities.
:• **Convert your XHL Xenon Halogen OMEGA 500 to LED:** With an upgrade kit the OMEGA 500 can easily and quickly be adapted to the new technology**.**

HEINE OMEGA® 500 Headband

with unique features

[01]

[02]
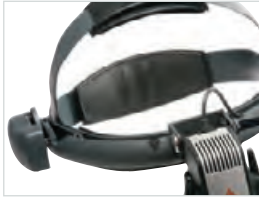
:∙ **Articulating hinge** provides vertical adjustment of the rear band of the headband for individual placement. Secure and perfect fit for all shapes and sizes.
:∙ **Ergonomic design** for optimal weight transfer across the surface of the entire headband (no pressure points).
:∙ **Softer, malleable material.** Provides even and comfortable fit of the headband.
:∙ **Calibrated overband position** ensures optics are in true horizontal position for precise adjustment and alignment.
:∙ **Integrated cables** in overband eliminates the usual "cable loop" from instrument to headband.
:∙ **Registered design.**

Technical Specifications:
:∙ **HC 50 L Headband Rheostat:** Easily mounted on the left or right sides of the headband [01].
:∙ **Integrated flip-up adjustment:** To raise optics out of the line of sight. Can be mounted on the left or right side of the headband. Optics can be flipped and locked at 0°, 12.5°, 47.5°, 60° degrees [02].
:∙ **Mechanically reinforced adjustment mechanisms:** For durability and precise adjustment of the headband.
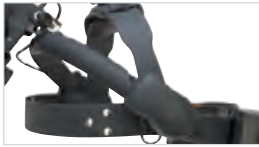
HEINE OMEGA® 500 Binocular Indirect Ophthalmoscope

Optimum performance and quality

[01]

[02]

[03]

OMEGA 500 Ophthalmoscope	XHL – 6V	LED – 6V
with XHL Xenon Halogen bulb (5 W) on Headband (not including HC 50 L Headband Rheostat)	C-004.33.500	
on Headband with HC 50 L Headband Rheostat and Connecting Cord Cinch	C-004.33.507	C-008.33.502
XHL Xenon Halogen spare bulb 6 V, 5 W, standard equipment	X-004.88.111	

Extension Cord Cinch-Cinch, 2 m [01]	C-000.33.510
Connecting Cord Cinch to EN 50 charger / mPack / plug-in transformer for HC 50 L, 1,6 m [02]	X-000.99.667
HC 50 L Headband Rheostat (without plug-in transformer)	X-095.16.325
Plug-in transformer for HC 50 L Headband Rheostat	X-095.16.330
Teaching mirror [03]	C-000.33.209

Ophthalmic Instruments

HEINE OMEGA® 500 Kits

[01]

[02]

XHL OMEGA 500 LED Conversion Kits.
With these kits, a XHL illumination OMEGA 500 can be converted to LED illumination.

Upgrade-Kits OMEGA 500	LED – 6 V
Upgrade-Kit OMEGA 500 with LED module [01] and HC 50 L [02]	**X-008.16.325**
LED module for OMEGA 500 [01]	**X-008.87.200**

OMEGA 500 Kits
Recommended product order configurations to ensure the most flexibility the OMEGA 500/EN 50 System has to offer. The following kits include main system elements but no carrying cases or ancillary accessories.

OMEGA 500 Kits	XHL – 6 V	LED – 6 V
Consists of OMEGA 500, HC 50 L Headband Rheostat, connecting cord Cinch		
Kit 1: with plug-in transformer for HC 50 L	**C-004.33.537**	**C-008.33.531**
Kit 2: with EN 50 transformer complete (incl. EN 50 Rheostat Control Module, extension cord Cinch-Cinch 2 m, 90° angled adaptor, instrument support)	**C-004.33.538**	
Kit 3: with mPack and plug-in transformer (incl. 90° angled adaptor) [01]	**C-004.33.539**	**C-008.33.533**

[01]

HEINE OMEGA® 500 Sets

Set complete with **OMEGA 500 Head-worn Indirect Ophthalmoscope**
1 scleral depressor large, 1 scleral depressor small, A.R. 20 D ophthalmoscopy lens, pad with 50 fundus charts, teaching mirror, 1 spare bulb if with XHL illumination, in hard case with:

OMEGA 500 Sets	XHL – 6 V	LED – 6 V
HC 50 L Headband Rheostat with plug-in transformer (incl. connecting cord Cinch)	**C-283.40.320**	**C-283.41.320**
EN 50-m Charger with mPack, HC 50 L Headband Rheostat (incl. connecting cord Cinch, 90° angled adaptor, 2 m extension cord Cinch-Cinch, instrument support	**C-283.40.302**	
mPack with plug-in transformer, HC 50 L Headband Rheostat (incl. connecting cord Cinch, 90° angled adaptor)	**C-283.40.670**	**C-283.41.670**

Carrying cases and storage cases may deviate in shape and colour.
For information on HEINE power sources see pages 140 – 150.

HEINE OMEGA® 500 UNPLUGGED

with headband battery mPack UNPLUGGED

100 % freedom of movement – no cable connections!
The OMEGA 500 Ophthalmoscope with mPack UNPLUGGED rechargeable battery allows one-of-a-kind mobility without restriction or hindrance caused by cables, cords, or similar connections.

:· **Rechargeable battery integrated on the headband.** No interfering cable connections.
:· **Lightweight with balanced weight distribution.** High level of comfort. Lightweight and compact.
:· **mPack UNPLUGGED rechargeable battery.** Charging time typ. 2 hours. Operating time typ. 8 hours with LED illumination, typ. 2 hours with XHL illumination (with standard lamp 6 V, 5 W).
:· **Charge Status Indicator.** Indication of remaining operating time.
:· **Can be recharged by wall charger or plug-in transformer.**
:· **Intelligent charging system.** Automatic changeover from operating to charging mode (in the wall unit). Battery-friendly charging.
:· **Direct operation possible while charging** through the use of the mobile plug-in transformer.
:· **Top safety standards.** Integrated charge and performance checks during operation. Lithium polymer technology. UL-compliant.
:· **System compatibility** with mPack for even greater capacity.

:· 100 % freedom of movement
:· Low weight
:· Charge status indicator

OMEGA 500 UNPLUGGED Kits	XHL – 6V	LED – 6V
Consists of OMEGA 500, HC 50 L Headband Rheostat, without case:		
Kit 5: with plug-in transformer UNPLUGGED, 1 x mPack UNPLUGGED	**C-004.33.541**	**C-008.33.535**
Kit 6: with Wall unit EN 50 UNPLUGGED charger, 2 x mPack UNPLUGGED	**C-004.33.542**	**C-008.33.536**
Kit 7: with Wall unit EN 50 UNPLUGGED charger, 1 x mPack UNPLUGGED	**C-004.33.543**	**C-008.33.537**
XHL Xenon Halogen spare bulb 6 V, 5 W	**X-004.88.111**	
Extension cord from plug-in transformer UNPLUGGED to mPack UNPLUGGED, 2 m		**X-000.99.668**

HEINE OMEGA® 500 UNPLUGGED Set

Set complete with **OMEGA 500 UNPLUGGED,** 1 scleral depressor large, 1 scleral depressor small, A.R. 20 D ophthalmoscopy lens, pad with 50 fundus charts, teaching mirror, 1 spare bulb in case of XHL illumination, in hard case with:

OMEGA 500 UNPLUGGED Set	XHL – 6V	LED – 6V
mPack UNPLUGGED and plug-in transformer UNPLUGGED	**C-284.40.670**	**C-284.41.670**

HEINE OMEGA® 500 with DV 1 Digital Video Camera

High-resolution digital imaging of the fundus

:∙ **5 MP resolution.** Capable of capturing high-resolution videos or still shots of examinations. No disturbing picture noise due to increased light sensitivity of the camera – also suitable for the examination of premature babies. Perfect for sharing the examiner's view with a wider audience, educating patients on the diagnosis, recording techniques for presentations, and patient records.

:∙ **Simple operation.** Digital imaging without any additional adjustments. Simply start recording and the image as seen through the OMEGA 500 will be displayed on the screen.

:∙ **Comfortable and balanced fit.** The OMEGA 500 headband distributes the low weight of the compact camera and optics perfectly and ensures a comfortable fit.

:∙ **Integrated focus adjustment.** The high depth of focus combined with an easily accessible focus adjustment, even for the assistant, ensures crisp, in-focus imaging.

:∙ **Interface and software.** Will plug into any laptop or computer via USB 2.0 interface. Supplied with software program for video recording and image capture.

:∙ **Cable-free power source system** with mPack UNPLUGGED rechargeable battery.

:∙ **Integrated camera design.** The integrated camera system ensures precise alignment with the optical system of the Indirect Ophthalmoscope. Robust, dustproof design. No further adjustment of mirrors necessary for digital imaging.

EXCLUSIVELY AT HEINE
· Integrated focus adjustment
· 5 MP resolution
· Simple operation

**HEINE OMEGA 500
with DV 1 film**

OMEGA 500 with DV 1	XHL – 6 V	LED – 6 V
OMEGA 500 with DV 1 and mPack with plug-in transformer	C-004.33.560	C-008.33.560
OMEGA 500 with DV 1 and mPack UNPLUGGED with plug-in transformer	C-004.33.561	C-008.33.561
OMEGA 500 with DV 1 and 2 x mPack UNPLUGGED with EN 50 UNPLUGGED	C-004.33.562	C-008.33.562
OMEGA 500 with DV 1 and USB 2.0 cord	C-004.33.563	C-008.33.563

XHL Xenon Halogen spare bulb	X-004.88.111	

USB 2.0 cord for OMEGA 500 with DV 1		X-000.99.206

For more information, please refer to www.heine.com/omega500dv1

HEINE OMEGA® 500 with DV 1 Sets

Set complete with: **OMEGA 500 Head-worn Indirect Ophthalmoscope with DV 1 Digital Video Camera,**
HC 50 L Headband Rheostat, USB 2.0 cord, 1 scleral depressor large, 1 scleral depressor small, A.R. 20 D ophthalmoscopy lens, pad with 50 fundus charts, 1 spare bulb if with XHL illumination, in hard case with:

OMEGA 500 with DV 1 Sets	XHL – 6 V	LED – 6 V
mPack UNPLUGGED and plug-in transformer	C-176.40.670	C-176.41.670

Carrying cases and storage cases may deviate in shape and colour.

HEINE SIGMA® 250 Binocular Indirect Ophthalmoscope

Spectacle-mounted Ophthalmoscope – with LED^HQ illumination

LED^HQ
LED NOW IN HEINE QUALITY.

The spectacle-mounted indirect Ophthalmoscope to suit any pupil size. Two separate controls for selecting the **ideal setting of parallax and convergence guarantee completely illuminated stereo views in pupils up to 2 mm, as well as viewing in the periphery.** The illumination beam can be adjusted by ±3º to eliminate reflexes.

:∙ **Power Source mPack mini – compact and light power source with USB charging option.** With a weight of just 95 g and dimensions of 44 x 23 x 101 mm, this mobile power source is now approx. 70 % smaller and lighter than its predecessor.
Typ. 11 hours in continuous operation at maximum power.
Please note: The SIGMA 250 is still compatible only with mPack mini.
:∙ **Extremely light,** 110 g without frame. Light and comfortable.
:∙ HEINE has set a new standard which maintains that only the best is good enough, from the selection of materials to processing, from light intensity to dimmability, and from thermal management to a colour rendering index as high as possible.
That's what we call LED in HEINE Quality – or LED^HQ.
:∙ **Lightweight frame.** High tensile carbon fiber construction is lightweight and has excellent stability.
:∙ **Illumination beam adjustable ±3°.** Eliminates reflexes.
:∙ **Integrated red-free filter.** Improves contrast.
:∙ **Optional blue and yellow filters.**
:∙ **Large and small apertures.**
:∙ **Dust proof.** Maintenance-free.
:∙ **PD selection from 47 to 72 mm.** Suits any user.
:∙ **Optics on swivel mount.** Unrestricted view.
:∙ **Optional clip-in correction frame** for prescription lenses.

:∙ **Ultra light**

:∙ **For any pupil size**

:∙ **LED in HQ**

Simplified diagram of various beam configurations:
Large pupil – Small pupil – Peripheral view

Large pupil   Small pupil   Peripheral view
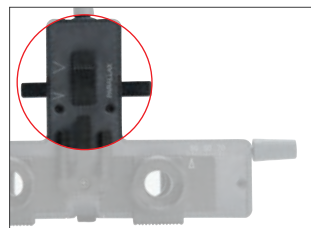
Parallax adjustment   Convergence adjustment

For further information on the mPack mini, please see page 150.

HEINE SIGMA® 250 Accessories

Teaching mirror [01]	C-000.33.302
Blue filter [02]	C-000.33.313
Yellow filter [03]	C-000.33.314
Diffusor [04]	C-000.33.315
Case for filters, empty [05]	C-000.33.316
Clip-in correction frame for prescription lenses [06]	C-000.32.309

[01]   [02]   [03]   [04]

[05]   [06]

HEINE SIGMA® 250 Kits

LED HQ
LED NOW IN HEINE QUALITY.

SIGMA 250 Kits	without power source	with mPack mini
SIGMA 250 Kit with S-FRAME		
SIGMA 250 S-FRAME Retaining cord Cleaning fluid	C-008.33.340	C-008.33.341
SIGMA 250 M2 Kit with S-FRAME and micro spot aperture (instead of small aperture)		
SIGMA 250 M2 S-FRAME Retaining cord Cleaning fluid	C-008.33.345	C-008.33.346

HEINE SIGMA® 250 Sets

LED HQ
LED NOW IN HEINE QUALITY.

SIGMA 250 Sets	with mPack mini
SIGMA 250 Set with S-FRAME	
SIGMA 250 S-FRAME mPack mini with E4-USB plug-in transformer and USB cord Scleral depressor small Scleral depressor large A.R. 20 D ophthalmoscopy lens Teaching mirror Blue and yellow filters Diffusor Retaining cord Cleaning fluid mPack mini Belt Clip Carrying case	C-281.41.671
SIGMA 250 M2 Set with S-FRAME	
SIGMA 250 M2 S-FRAME mPack mini with E4-USB plug-in transformer and USB cord Scleral depressor small Scleral depressor large A.R. 20 D ophthalmoscopy lens Teaching mirror Blue and yellow filters Diffusor Retaining cord Cleaning fluid mPack mini Belt Clip Carrying case	C-279.41.671

Carrying cases and storage cases may deviate in shape and colour.

HEINE Hand-held Indirect Ophthalmoscope, MONOCULAR

Compact monocular ophthalmoscope

An unusually compact instrument, which is recommended for visits and mobile use.

:· **Durable metal construction.** Long working life.
:· **Built-in interference red-free filter.** Improves contrast.
:· **All optical components made of coated optical glass.** Precise images and high light intensity.
:· **Adjustable light beam.** Useful for small pupils.
:· **One hand operation.** All control elements can be easily reached with the thumb.
:· **+3 D lens attachment.** An aid to accomodation, magnifies the image.
:· **Add-on binocular attachment available.** Instrument can be up-dated for binocular use.

Monocular Hand-held Indirect Ophthalmoscope	3.5V XHL
with +3D lens attachment and orbit rest extension	C-002.33.001

XHL Xenon Halogen spare bulb	X-002.88.050

+3D lens attachment only [01]	C-000.33.101
Orbit rest extension, for spectacle wearers only	C-000.33.104

[01]

HEINE Hand-held Indirect Ophthalmoscope, BINOCULAR

Adding the binocular attachment to the Hand-held Indirect Ophthalmoscope allows stereoscopic examination. PD selection from 54 to 74 mm.

:· **Symmetrical PD selection.** Quick and easy to adjust.
:· **Multi-coated precision optics.** Exceptional image quality.

Binocular Hand-held Indirect Ophthalmoscope	3.5V XHL
with +3D lens attachment and orbit rest extension	C-002.33.002

XHL Xenon Halogen spare bulb	X-002.88.050

Binocular attachment only [01]	C-000.33.106

[01]

Model Eyes

HEINE Skia / Retinoscope Trainer

This model eye is ideal for teaching and practice. The pupil diameter and refractive error can be set exactly and are therefore reproducible. The front lens compartment holder accepts up to two trial lenses. The cylinder can be read from the graduated scale.

:: **Scale:** 0° – 180° for cylinder determination.
:: **Diameter of pupil variable:** 2, 3, 4, 5, 6, 8 mm.
:: **Optics:** Optical glass, achromatic lens, focal length F = 32 mm.
:: **Trainer body made of metal:** Extremely stable and durable.
:: **Angle of examination variable.**

Model Eye	
Skia / Retinoscope Trainer	**C-000.33.011**

Model Eyes

HEINE Ophthalmoscope Trainer

This model eye was developed for the teaching environment. It is the first adjustable model from HEINE to mimic the human eye. Precise, durable and with a multitude of uses, it simplifies the learning process and encourages the student to practice with the ophthalmoscope.

:: **Diameter of pupil.** Variable 2, 3, 4, 5, 6, 8 mm.
:: **Aspheric optical glass lens.** Focal length F = 18 mm. Lens curvature matches that of the retina.
:: **Trainer body.** Made of metal – extremely stable and durable.
:: **Angle of examination,** variable.

Model Eye	
Ophthalmoscope Trainer	**C-000.33.010**

HEINE® A.R. Aspheric Ophthalmoscopy Lenses

With anti-reflex A.R. coating

:- **Advanced triple multicoating.** Reduced reflection, excellent light transmission.
:- **Lens curvature matches that of the retina.** Perfect, distortion-free retinal image.
:- **Large diameter.** Significant increase in field of view without magnification loss.
:- **Aspheric surfaces.** Reduced distortion of the periphery.

Ophthalmoscopy lens	
with case	
A.R. 16 D, 54 mm dia.	**C-000.17.225**
A.R. 20 D, 50 mm dia.	**C-000.17.228**
A.R. 30 D, 46 mm dia.	**C-000.17.231**

Scleral Depressor

Scleral depressor	
Scleral depressor, large*	**C-000.17.300**
Scleral depressor, small*	**C-000.17.301**

*autoclavable

Fundus Charts

Fundus charts	
Pad with 50 pcs.	**C-000.33.208**

Combi Case

Combi case respectively hard case for head-worn indirect binocular ophthalmoscopes. Features a deep, dense foam insert to protect instruments, and can be worn over the shoulder or as a backpack (removable straps included).

[01]

Combi case / Hard case	
Combi case [01] for indirect ophthalmology sets C-162, C-276, C-278, C-283, C-284 (432 mm x 330 mm x 197 mm)	**C-079.03.000**
Hard case [02] for indirect ophthalmology sets C-162, C-276, C-278, C-283, C-284 (470 mm x 400 mm x 190 mm)	**C-079.00.000**

[02]

Carrying cases and storage cases may deviate in shape and colour.

You can COUNT on our laryngoscopes. ALWAYS.

HEINE

HEINE Laryngoscopes

	Classic+ Macintosh	Classic+ Miller	Classic+ WIS	Classic+ Paed	FlexTip+	XP Macintosh	XP Miller
Size							
00		□					
0	□	□		□			□
1	□	□	□	□		□	□
2	□	□	□			□	□
3	□	□	□		□	□	□
3m	□						
4	□	□			□	□	□
5	□						
Material							
Stainless Steel	□	□	□	□	□		
Polycarbonate / Acryl						□	□
Diameter of HiLite Fiber Bundle in mm							
	4.3	3.7	3.7	3.6	4.3	n/a	n/a
Reusable / Sterilizable							
	□	□	□	□	□	⊗	⊗
Sterilisation without disassembly							
	□	□	□	□	□		
Suitable for low ambient temperatures							
						□	□
Guarantee							
5 years	□	□	□	□	□	⊗	⊗
4000 autoclave cycles	□	□	□	□	□	⊗	⊗
Page	081	082	082	082	083	084	084

⊗: Single use only.

Laryngoscopes

HEINE® Classic+ Macintosh Fiber Optic (F.O.) Blades
Innovative Fiber Optic Technology for advanced performance

[01]

[02]

[03]

[04]

[05]

[06]

[07]

Our new, innovative manufacturing technology achieves even better illumination and a longer service life.

:· **The HEINE HiLite Fibre Optic (F.O.) fiber bundle, optimised for use** with up to 6,500 individual fibres and refined directional characteristics, achieves the best possible illumination of the pharynx even after 4,000 sterilisation cycles. For simple and safe intubation.

:· **The new one-piece design from chrome-plated, stainless,** high-grade steel makes the Classic+ F.O. blade even more resistant to the oxidation and/or corrosion damage that can occur in the reprocessing process due to intense use.

:· **HEINE Classic+ blades have no screwed joints,** no external fiber bundles and no openings that could contaminate.

:· **The clean shape without any edges or corners is easy to clean and sterilise.**

:· **Compatible with all handles** to the ISO 7376 (green standard).

:· **5 years guarantee.** 4000 standard autoclave cycles of 134 °C / 4 min. with more than 1000 lux.

EXCLUSIVELY AT HEINE
· One-piece design, stainless high-grade steel
· 4000 autoclave cycles
· 5 year guarantee

Blade length
Overall length
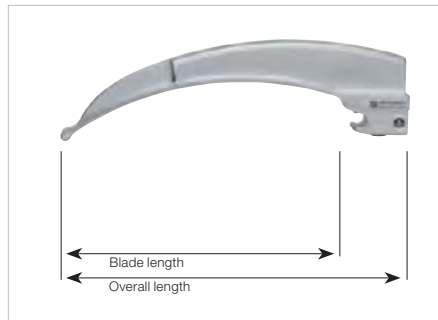
Size	Overall length	Blade length	Distal width	
Mac 0 [01]	82 mm	66 mm	9 mm	F-000.22.100
Mac 1 [02]	94 mm	78 mm	10 mm	F-000.22.101
Mac 2 [03]	114 mm	98 mm	14 mm	F-000.22.102
Mac 3 m* [04]	134 mm	118 mm	14 mm	F-000.22.143
Mac 3 [05]	134 mm	118 mm	14 mm	F-000.22.103
Mac 4 [06]	155 mm	139 mm	15 mm	F-000.22.104
Mac 5 [07]	177 mm	161 mm	15 mm	F-000.22.105

* stronger curve

[01]
[02]
[03]
[04]
[05]
[06]

HEINE® Classic+ Miller, WIS and Paed Fiber Optic (F.O.) Blades

Innovative Fiber Optic Technology for advanced performance
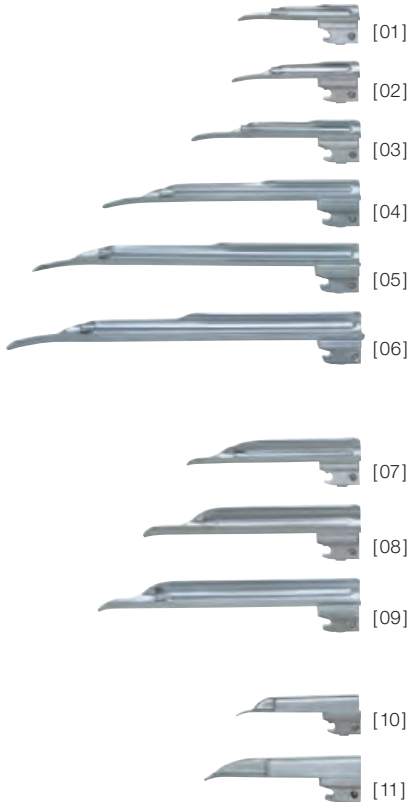
:· **The Miller Classic+ blades with improved geometry simplify intubation.**
The shortened shoulder of the blade dramatically improves the anesthetist's view of the epiglottis and vocal cords. The distal lip of the blade features a special atraumatic shape.

:· **HEINE HiLite fiber bundle** with up to 6,500 individual micro-fibers for for improved light transmission and longer life.

:· **Both ends of the large fiber bundle** are protected – for life.

:· **HEINE Classic+ blades have no screwed joints,** no external fiber bundles and no openings that could contaminate.

:· **The clean shape without any edges or corners is easy to clean and sterilise.**

:· These blades need **no maintenance** – ever.

:· **Compatible** with all handles to the ISO 7376 (green standard).

:· **High-quality design from chrome-plated, stainless, high-grade steel.**

:· **5 years guarantee.** 4000 standard autoclave cycles of 134 °C / 4 min. with more than 1000 lux.

:· **HEINE Paed laryngoscopes** have been developed specifically for the intubation of neonates and infants.

[07]
[08]
[09]
[10]
[11]

Miller 2 side-view

WIS 2 side-view

Paed 1 side-view

Blade length
Overall length

:· **Easy intubation**

:· **4000 autoclave cycles**

:· **5 year guarantee**
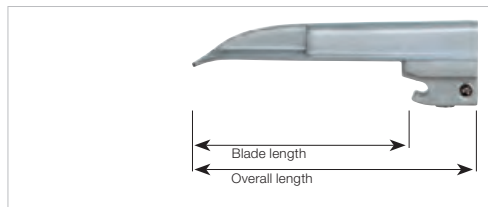
Size	Overall length	Blade length	Distal width	
Miller 00 [01]	76 mm	51 mm	10 mm	**F-000.22.119**
Miller 0 [02]	80 mm	55 mm	11 mm	**F-000.22.120**
Miller 1 [03]	100 mm	78 mm	12 mm	**F-000.22.121**
Miller 2 [04]	152 mm	130 mm	13 mm	**F-000.22.122**
Miller 3 [05]	192 mm	170 mm	13 mm	**F-000.22.123**
Miller 4 [06]	207 mm	185 mm	16 mm	**F-000.22.124**
WIS 1 [07]	110 mm	85 mm	13 mm	**F-000.22.131**
WIS 2 [08]	130 mm	105 mm	16 mm	**F-000.22.132**
WIS 3 [09]	160 mm	133 mm	16 mm	**F-000.22.133**
Paed 0 [10]	82 mm	65 mm	12 mm	**F-000.22.110**
Paed 1 [11]	95 mm	78 mm	13 mm	**F-000.22.111**

Laryngoscopes

HEINE® FlexTip+ Fiber Optic (F.O.) Laryngoscope Blade

A useful Tip for a difficult intubation

The FlexTip+ is a Macintosh Laryngoscope Blade with a tip which is adjustable through 70°. A lever controls the tip angle during intubation to lift the epiglottis, giving a clear view of the vocal cords. Contact with the upper row of teeth and unnecessary pressure on the tongue and soft tissue are avoided.

:. **HEINE HiLite fiber bundle.** With up to 6500 individual micro-fibers for improved light transmission and longer life.
:. **Integrated Fiber Optics for the best possible illumination.**
:. **High-quality design from chrome-plated, stainless, high-grade steel.**
:. **Swivelling blade tip facilitates difficult intubation.**
:. **Reduced likelihood of damage** to teeth and soft tissue.
:. **Fits all standard F.O. handles** (green standard). Exception: F.O. Angled Handle.
:. **5 years guarantee.** 4000 standard autoclave cycles of 134 °C / 4 min. with more than 1000 lux.

:. Swivelling blade tip

:. Clear view

:. 5 year guarantee

[01]

FlexTip+ F.O. Blade in case	Overall length	Blade length	Distal width	
Mac 3 [01]	134 mm	115 mm	13 mm	**F-000.22.313**
Mac 4	157 mm	137 mm	13 mm	**F-000.22.314**
Mac 3 and Mac 4	134 mm / 157 mm	115 mm / 137 mm	13 mm / 13 mm	**F-000.22.316**
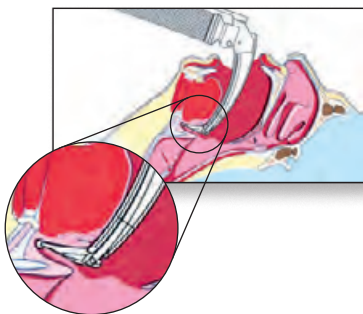
HEINE® XP Disposable Laryngoscope Blades

Eliminate cross-infection

XP Miller [01]
[02]
[03]
[04]
[05]
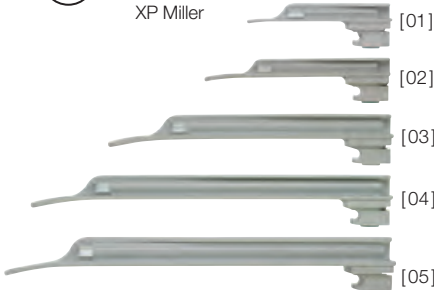
The Disposable Laryngoscope Blade features the HEINE Classic+ blade shape of the world's best-selling integral fiber optic blade. With proper use the disposable XP blade avoids cross-infection from one patient to the next.

:∙ **No danger of cross-infection.**
:∙ **Hygienic and safe.**
:∙ **Optimum light transmission** by oversize light guide.
:∙ **Extremely bright:** Highest level of illuminance with HEINE 2.5 V or 3.5 V LED illuminance within laryngoscope insert.
:∙ **Blade shape optimized to ease the passage of the tube.**
:∙ **Patient-friendly** with **reduced risk of injury** or damage to teeth.
:∙ **Extreme torsional stiffness,** practically unbreakable.
:∙ **Blades do not "freeze"** or stick to the tongue at low temperatures.
:∙ **Compatible** with all handles to the ISO 7376 (green standard).

XP Mac [06]
[07]
[08]
[09]

XP Miller 1 side-view
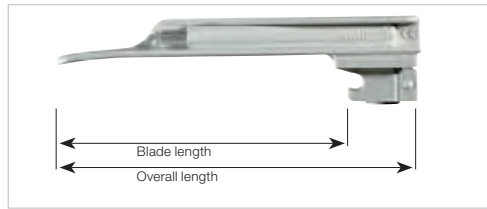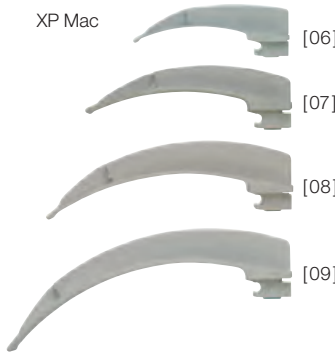
Blade length
Overall length

XP Mac 2 side-view

:∙ **Hygienic and safe**

:∙ **Extremely bright light**

:∙ **Torsional stiffness**

XP blade	Overall length	Blade length	Distal width	
Miller 0 [01]	80 mm	62 mm	10 mm	**F-000.22.771***
Miller 1 [02]	104 mm	85 mm	10 mm	**F-000.22.772***
Miller 2 [03]	155 mm	136 mm	13 mm	**F-000.22.773***
Miller 3 [04]	195 mm	177 mm	13 mm	**F-000.22.774***
Miller 4 [05]	221 mm	194 mm	14 mm	**F-000.22.775***
Mac 1 [06]	90 mm	72 mm	9 mm	**F-000.22.761***
Mac 2 [07]	114 mm	96 mm	10 mm	**F-000.22.762***
Mac 3 [08]	134 mm	116 mm	14 mm	**F-000.22.763***
Mac 4 [09]	154 mm	136 mm	14 mm	**F-000.22.764***

* 25 disposable blades individually packed in Dispenser Box.

For HEINE XP Emergency Set, please see page 090.

⊗: Single use only.

Laryngoscopes

HEINE® XP Disposable Laryngoscope Handle Shell

Eliminates cross-infection

The disposable laryngoscope handle shell with the globally distributed laryngoscope insert is powered by the best-selling battery insert for HEINE F.O. handles. The laryngoscope insert can be removed from the handle shell after intubation without risk of contamination.

XP Disposable Laryngoscope Handle Shell with bottom insert	
without laryngoscope insert, pack of 25	**F-000.22.926**

Standard F.O. Laryngoscope Insert	2.5 V	3.5 V NiMH	3.5 V Li-ion
with XHL illumination and Standard F.O. Bottom Insert	**F-001.22.858**	**F-002.22.868**	–
with LED illumination and Standard F.O. Bottom Insert	**F-008.22.858**	**F-008.22.868**	**F-008.22.889**
with XHL illumination and Standard F.O. 4 NT Bottom Insert	–	–	**F-007.22.893***
with LED illumination and Standard F.O. 4 NT Bottom Insert	–	–	**F-008.22.893***
XHL Xenon Halogen spare bulb	**X-001.88.035**	**X-002.88.044**	**X-002.88.044**

* Please note: The Laryngoscope insert with the HEINE F.O. 4 NT Bottom Insert can only be charged in the HEINE NT 4 Table Charger.

⊗: Single use only.

1. 2. 3. 4. 5. 6. 7.
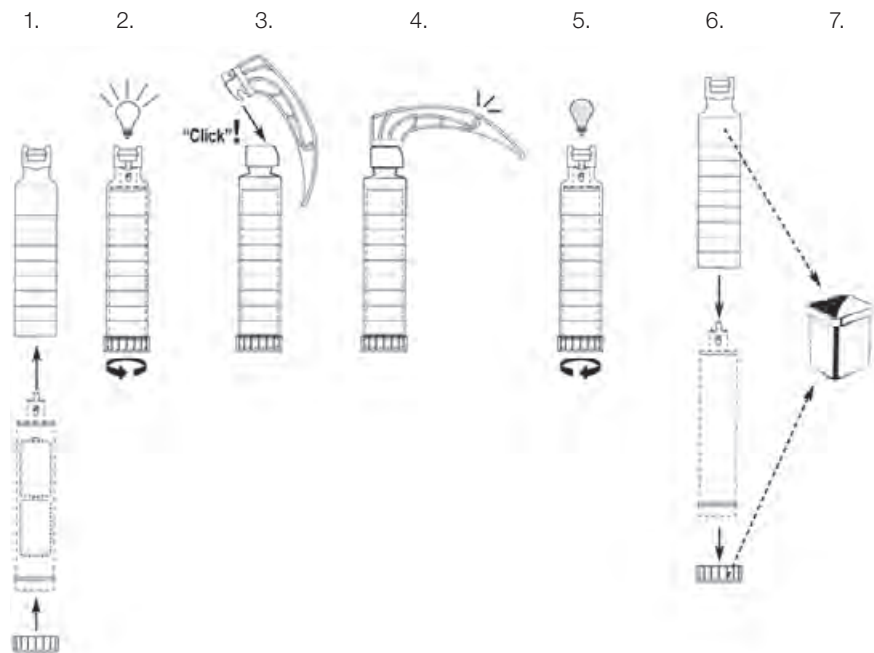
The XP disposable handle shell was especially designed for use with HEINE laryngoscope inserts. The HEINE laryngoscope insert is placed inside the disposable handle shell and the light is activated by turning the bottom insert. Following intubation, the user simply unscrews the bottom insert and the laryngoscope insert can be removed with no risk of contamination. The handle shell, the bottom insert and the XP blade are all disposed of.

NEW!

LED **HQ**
LED NOW IN HEINE QUALITY.

EXCLUSIVELY AT HEINE
· 100 % waterproof
· Autoclavable LED technology
· Simple, safe reprocessing

HEINE EasyClean® LED Laryngoscope Handle

Now all three handle sizes: STANDARD, SLIM AND SHORT

The HEINE EasyClean LED Laryngoscope Handle was developed to allow even simpler, faster and safer hygienic reprocessing of the handle – no complex disassembling and assembling of batteries and light unit. This saves the technical service personnel a great deal of time, and reduces the training and maintenance effort.

SIMPLE, FAST AND SAFE CLEANING
- **Non-slip "Wave Design"** improves the reliability of the wipe disinfectant for the handle after use ('Intermediate Disinfection').
- **100% waterproof.** In the case of immersion disinfection ('High-Level Disinfection') or low temperature sterilisation processes (STERRAD®, STERIS®), neither the batteries nor the LED light unit need to be removed.
- **Autoclavable LED technology:** No removal of the light unit required for use in autoclaves, just batteries.

PERFECT VIEW
- HEINE has set a new standard which maintains that only the best is good enough, from the selection of materials to processing, from light intensity and thermal management to a colour rendering index as high as possible.
  That's what we call LED in HEINE Quality – or LED^HQ.
- **Maximum brightness:** 3x brighter than conventional halogen light.
- Virtually **unlimited hours of working life.**

FAIL-SAFE
- **Typ. 10 hours of operating time** (EasyClean LED Laryngoscope Handle in continuous operation)**.**
- **Fade-Out Feature:** brightness reduces slowly as battery operating time diminishes, for even more efficient battery use.
- **Compatible with all laryngoscope blades** according to ISO 7376 (Green Standard).

[01]   [02]   [03]

EasyClean LED Laryngoscope Handle	LED
EasyClean LED Laryngoscope Handle suitable for 2x C-batteries (LR14), complete* [01]	**F-008.22.820**
EasyClean LED SLIM Laryngoscope Handle suitable for 2x AA-batteries (LR6), complete* [02]	**F-008.22.821**
EasyClean LED SHORT Laryngoscope Handle, suitable for 3x AAA-batteries (LR03), complete* [03]	**F-008.22.822**

*Delivery without batteries.

HYGIENIC REPROCESSING OPTIONS:**

Reprocessing process ➜	Wipe disinfection	Manual immersion disinfection	Low temperature gas plasma sterilisation (STERRAD®/STERIS®)	Mechanical cleaning + disinfection (thermal disinfector)	Steam sterilisation/ autoclave
Temperature	Cold	< 60 °C	< 60 °C	max. 93 °C	max. 134 °C / 3 min
with batteries	✔	✔	✔	Batteries removed previously	Batteries removed previously
with HEINE LED	✔	✔	✔	✔	✔

**Detailed cleaning instructions can be found in our instructions for use at www.heine.com

HEINE® F.O. 4 NT Laryngoscope Handles

Li-ion in all handle sizes – XHL or LED^HQ illumination

LED^HQ

LED NOW IN HEINE QUALITY.

:- Compatible with all laryngoscope blades to the ISO 7376 (green standard).
:- HEINE Standard F.O. 4 NT Laryngoscope Handles can be converted from battery to rechargeable handles by simply exchanging the bottom insert.
:- Fade-Out Feature: brightness reduces slowly even with low residual capacity, for even more efficient use of dry or rechargeable batteries.
:- HEINE has set a new standard which maintains that only the best is good enough, from the selection of materials to processing, from light intensity and thermal management to a colour rendering index as high as possible.
That's what we call LED in HEINE Quality – or LED^HQ.

[01] [02] [03] [04]* [06] [07]

*Charge Status Indicator in the bottom insert.
Typ. 13 hours operation time.

Standard F.O. 4 NT Laryngoscope Handle*	XHL 3.5 V Li-ion	LED 3.5 V Li-ion
Standard F.O. 4 NT Handle, complete [01]	F-007.22.894	F-008.22.894
Laryngoscope insert without bottom insert [02]+[03]	F-002.22.859	F-008.22.890
Bottom insert F.O. 4 NT [04]*	F-002.22.884	F-002.22.884
Rechargeable battery [06]	X-007.99.383	X-007.99.383
Handle shell [07]	F-000.22.824	F-000.22.824
Spare bulb	X-002.88.044	-
NT 4 table charger, only (without handle)	X-002.99.494	X-002.99.494

Standard F.O. Laryngoscope Battery Handle	XHL 2.5 V	LED 2.5 V
Standard F.O. Handle, suitable for 2 x C-batteries (LR14), compl.** [01]	F-001.22.860	F-008.22.860
Bottom insert [05]	F-001.22.861	F-001.22.861

[01] [02] [03] [04] [06] [07] [08]

F.O. 4 SLIM NT Laryngoscope Handle	XHL 3.5 V Li-ion	LED 2.5 V Li-ion
F.O. 4 SLIM NT Handle, complete [01]	F-007.22.804	F-008.22.804
Laryngoscope insert without bottom insert [02]+[03]	F-002.22.801	F-008.22.801
Bottom insert F.O. 4 SLIM NT [04]	F-000.22.854	F-000.22.854
Rechargeable battery [06]+[07]	X-007.99.380	X-007.99.104
Handle shell [08]	F-000.22.804	F-000.22.804
Spare bulb	X-002.88.044	-
NT 4 table charger only (without handle)	X-002.99.494	X-002.99.494
Set of two adaptors	X-000.99.086	X-000.99.086

F.O. SLIM Laryngoscope Battery Handle	XHL 2.5 V	LED 2.5 V
F.O. SLIM Handle suitable for 2 x AA-batteries (LR6), complete** [01]	F-001.22.800	F-008.22.800
Bottom insert [05]	F-000.22.851	F-000.22.851

[01] [02] [03] [04]

F.O. 4 SHORT NT Laryngoscope Handle	XHL 3.5 V Li-ion	LED 2.5 V Li-ion
F.O. 4 SHORT NT Handle, complete [01]	F-007.22.424	F-008.22.424
Charging module [02]+[03]	X-007.99.394	X-007.99.304
Spare bulb	X-002.88.044	-
NT 4 table charger only (without handle)	X-002.99.494	X-002.99.494

F.O. SHORT Laryngoscope Battery Handle	XHL 2.5 V	LED 2.5 V
F.O. SHORT Handle suitable for 2 x AA-batteries (LR6), complete** [04]	F-001.22.812	F-008.22.812

**Delivery without batteries.
Please note: All Li-ion versions can only be charged with the NT 4 table charger.

Laryngoscopes

HEINE® NT 4 Table Charger and Adaptors

All rechargeable HEINE F.O. 4 NT Laryngoscope Handles can only be charged with the NT 4 table charger. The use of an adaptor is required for some handles. For detailed information about the NT 4 table charger and adaptor, please see page 142.

NT 4 table charger	
without handle, with adaptors for Standard F.O. 4 NT Laryngoscope Insert and F.O. 4 SHORT NT Laryngoscope Handle	**X-002.99.494**
Set of two adaptors for F.O. 4 SLIM NT Laryngoscope Rechargeable Handle [01]	**X-000.99.086**

HEINE F.O. Angled Handle

For complex intubation

The Fiber Optic Angled Handle can be fitted with any HEINE Fiber Optic blade. The angle of the blade to the handle gives a significantly better view for intubation e. g. in cases of injury to the neck. One F.O. Angled Handle for all F.O. Blades (except FlexTip). The rechargeable handle can be charged only in the NT 300 table charger.

F.O. Angled Handle	2.5 V	3.5 V NiMH	3.5 V Li-ion L
F.O. Angled Handle, complete [01]	**F-001.22.941**	**F-002.22.942**	**F-007.22.945**
Bottom insert [02] [03] [04]	**X-000.99.119**	**X-002.99.412**	**X-002.99.396**
Rechargeable battery [05] [06]	–	**X-002.99.382**	**X-007.99.383**
Spare bulb	**X-001.88.035**	**X-002.88.044**	**X-002.88.044**
NT 300 charger, only (without handle)	–	**X-002.99.495**	**X-002.99.495**

HEINE F.O. SP Laryngoscope Handle

For use with disposable blades

Cost-effective high quality battery handle with SANALON+ connector. Exclusively for use with XP disposable blades made of plastic. Available only as the battery version.

F.O. SP Laryngoscope Handle	2.5 V
F.O. SP Handle, complete [01]	**F-001.22.815**
Spare bulb	**X-001.88.035**

Laryngoscopes

HEINE® Classic+ Fiber Optic (F.O.) Laryngoscope Sets

Set complete with: **Paed 1, Mac 2, Mac 3 blades**
spare XHL Xenon Halogen bulb,
zipper case

[01]

Classic+ Sets	2.5 V	3.5 V Li-ion
with Standard F.O. Battery Handle [01]	F-119.10.860	
with Standard F.O. 4 NT Rechargeable Handle with Li-ion Battery and NT 4 table charger		F-119.23.865*

As above, but with LED illumination, without spare bulb

[02]

LED ᴴᵠ Classic+ Sets	2.5 V	3.5 V Li-ion
with Standard F.O. LED Battery Handle	F-119.18.860	
with Standard F.O. 4 LED NT Rechargeable Handle with Li-ion Battery and NT 4 table charger		F-119.94.865*
▶ with EasyClean LED Battery Handle [02]	F-119.18.820	

Set complete with: **Paed 1, Mac 2, Mac 3, Mac 4 blades**
spare XHL Xenon Halogen bulb,
zipper case

[01]

Classic+ Sets	2.5 V	3.5 V Li-ion
with Standard F.O. Battery Handle [01]	F-120.10.860	
with Standard F.O. 4 NT Rechargeable Handle with Li-ion Battery and NT 4 table charger		F-120.23.865*

As above, but with LED illumination, without spare bulb

[02]

LED ᴴᵠ Classic+ Sets	2.5 V	3.5 V Li-ion
with Standard F.O. LED Battery Handle	F-120.18.860	
with Standard F.O. 4 LED NT Rechargeable Handle with Li-ion Battery and NT 4 table charger		F-120.94.865*
▶ with EasyClean LED Battery Handle [02]	F-120.18.820	

*Please note: The 3.5 V Li-ion version will be delivered with the HEINE F.O. 4 NT bottom insert and can only be charged in the HEINE NT 4 table charger.

HEINE® FlexTip+ Fiber Optic (F.O.) Laryngoscope Sets

FlexTip+ F.O. Laryngoscope Set complete with: **Blades Mac 3, Mac 4** spare XHL Xenon Halogen bulb, case

FlexTip+ Sets	2.5V	3.5V Li-ion
with Standard F.O. Battery Handle [01]	F-230.10.860	
with Standard F.O. 4 NT Rechargeable Handle with Li-ion Battery and NT 4 table charger		F-230.23.865*

[01]

As above, but with LED illumination, without spare bulb

LED HQ FlexTip+ Sets	2.5V	3.5V Li-ion
with Standard F.O. LED Battery Handle	F-230.18.860	
with Standard F.O. 4 LED NT Rechargeable Handle with Li-ion Battery and NT 4 table charger		F-230.94.865*
with EasyClean LED Battery Handle	F-230.18.820	

Case for FlexTip+ F.O. Laryngoscope Sets F-227, F-229 or F-230	F-227.01.000
FlexTip+ Mac 3 and Mac 4, without handle, in case	F-000.22.316

HEINE® XP Emergency Set with XP Disposable Blades

Specially-developed for emergency-use featuring the HEINE XP® Disposable Laryngoscope Blades. These sets are equipped with XP blades of the same anatomically-correct shape as the Classic+ blade, the world's best-selling F.O. blade with integrated fiber optic bundle.
The HEINE XP Emergency Laryngoscope Set is complete with the 5 most frequently-used blade types and sizes for infants and adults. Instantly-ready for use with F.O. SP Handle** and replaceable batteries.

XP Emergency Set	2.5V XHL
with blades Miller 0, Miller 1, Mac 2, Mac 3, Mac 4, F.O. SP Handle**, two alkaline batteries, in case	F-257.10.815

XP* Blades	Overall Length	Distal Width	
Miller 0	80 mm	10 mm	F-000.22.771*
Miller 1	104 mm	10 mm	F-000.22.772*
Mac 2	114 mm	10 mm	F-000.22.762*
Mac 3	134 mm	14 mm	F-000.22.763*
Mac 4	154 mm	14 mm	F-000.22.764*

*25 disposable blades ⊗ individually packed in Dispenser Box.

XP Emergency Set Accessories	2.5V XHL
F.O. SP Laryngoscope Handle**, with bulb	F-001.22.815

XHL Xenon Halogen spare bulb for F.O. SP Handle	X-001.88.035
Refill assortment of 5 XP Blades, Miller 0, 1, Mac 2, 3, 4 (one each, 5 pieces in total)	F-000.22.740

**Exclusively for use with disposable blades made of plastic

Skin has many stories to **TELL.** You just need to be able to **READ** them.

HEINE

HEINE Dermatoscopes

	DELTA 20 T	iC 1	NC 2	mini 3000 LED	mini 3000
Polarisation	Polarised + non-polarised (switchable)	Polarised + non-polarised (switchable)	Polarised	Non-polarised (immersion)	Non-polarised (immersion)
Illumination	LED^{HQ}	LED^{HQ}	LED^{HQ}	LED^{HQ}	XHL
Magnification	10 to 16x	Up to 40x digital	6x / 10x Up to 30x digital	10x	10x
Battery / charging options	• Battery handle • USB rechargeable handle • Rechargeable handle for table charger	USB cable	USB cable	• AA batteries • Rechargeable handle for table charger	• AA batteries • Rechargeable handle for table charger
Contact plate	• Contact plate with scale • Contact plate without scale	• Contact plate with scale	• Contact plate with scale	• Contact plate with scale • Contact plate without scale	• Contact plate with scale • Contact plate without scale
Photographs possible?	Yes, with optional SLR photo adaptor	Yes, with iPhone / iPod touch	Yes, with adaptor for iPhone / iPod touch	–	–
Optional accessories	Small contact plate for difficult-to-access lesions	–	–	Small contact plate for difficult-to-access lesions	Small contact plate for difficult-to-access lesions
Catalogue page	093 / 097	094 / 097	095 / 098	096 / 098	096 / 098

The Apple iPhone or iPod touch is not included in the scope of delivery. Apple, the Apple logo, iPhone and iPod touch are trademarks of Apple Inc., registered in the U.S. and other countries. App Store is a service mark of Apple Inc.

HEINE DELTA® 20 **T** Dermatoscope

You can't treat what you can't see

LED HQ
LED NOW IN HEINE QUALITY.

[01]

:• **Crystal clear, high-resolution images** thanks to the high-quality achromatic optical system. The focusing system delivers 10 to 16× magnification for a detailed view of even the smallest structures.

:• **Toggle function for switching between polarised and non-polarised illumination mode.** With the press of a button. No exchange of contact plates necessary. The additional diagnostic function allows detection of 'blink signs' when viewing crystalline structures and milia.

:• **Glare-free and reflection-free view thanks to polarisation, even without immersion fluid.** For fast and flexible work.

:• **With just one hand:** individual focusing, range of correction approximately −6 to +6 dpt.

:• HEINE has set a new standard which maintains that only the best is good enough, from the selection of materials to processing, from light intensity and thermal management to a colour rendering index as high as possible.
That's what we call LED in HEINE Quality – or LED^HQ.

:• **The DELTA 20 T is also capable of digital documentation:** using the HEINE digital camera lens system, the dermatoscope can be connected to the SLR cameras of major brands without any issues. Specially developed photo adaptor lenses combine the camera and DELTA 20 T to create an unbeatable pair.

HEINE DELTA 20 T film

:• **Special small contact plate for the examination of difficult-to-access lesions, for instance between the fingers or toes.** See page 097 for order information.

★ **TOPSELLER**
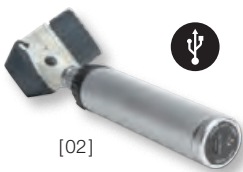
[02]

Brings structure to your desk: the innovative charging system charges two handles at the same time!

[03]

DELTA 20 **T** Dermatoscope Kits	LED
Kit 1: DELTA 20 **T** Dermatoscope with contact plate with scale, BETA 4 USB rechargeable handle with USB cord and plug-in power supply, without hard case [02]	**K-010.28.388**
Kit 2: DELTA 20 **T** Dermatoscope with contact plate with scale and BETA 4 NT rechargeable handle, without hard case [01]	**K-010.24.396**
Kit 3: 2 x DELTA 20 **T** Dermatoscope with contact plate with scale, 2 x BETA 4 NT rechargeable handle and NT 4 table charger, without hard case [03]	**K-012.24.422**

Dermatoscopes

HEINE® iC 1 Dermatoscope

Dermatoscopy goes digital. And mobile.

LED HQ
LED NOW IN HEINE QUALITY.

:· **Sharp, sharper, sharpest.** The HEINE iC 1 is a device designed for capturing clinical and dermatoscopic images for documenting and supporting differential diagnosis of melanomas and other skin lesions. And in our unrivalled quality. Sharp and shadow-free.
Thanks, on the one hand, to our precise, aspherical optical system and, on the other, the 12-megapixel image quality when using an iPhone®* 6s or a later model. Simply download iC 1 App, insert your iPhone and experience digital dermatoscopy like never before.

:· **Big, bigger, biggest.** The high-quality aspherical optical system with up to 40× true magnification offers everything you need in a practice.

:· HEINE has set a new standard which maintains that only the best is good enough, from the selection of materials to processing, from light intensity and thermal management to a colour rendering index as high as possible.
That's what we call LED in HEINE Quality – or LEDHQ**.**

:· **At the press of a button – the toggle function.** With two switching buttons, the option to switch back and forth between polarisation and immersion images is always within easy reach, regardless of the working position.

:· **Many see a smartphone. We see an exceptional camera and first-class display.**
We've opted for the iPhone for reasons of quality, user orientation and costs. From our perspective it offers the best camera, a display with the highest resolution and the most progressive touchscreen technology.

* Apple, the Apple logo, iPhone and iPod touch are trademarks of Apple Inc., registered in the U.S. and other countries. App Store is a service mark of Apple Inc.

App Store Laden im
**Free
HEINE iC 1 App**

★ **TOPSELLER**

iC 1 Set/5 for iPhone 5s and SE	LED
iC 1 with contact plate with scale, mounting case smartphone iC 1/5 for Apple iPhone 5s and SE, USB cord with medical approved plug-in power supply	**K-271.28.305**

★ iC 1 Set/6 for iPhone 6/6s	LED
See above, but with mounting case smartphone iC 1/6 for Apple iPhone 6/6s	**K-270.28.305**

iC 1 Set/7 for iPhone 7 and 8	LED
See above, but with mounting case smartphone iC 1/7 for Apple iPhone 7 and 8	**K-273.28.305**

The Apple iPhone is not included in the scope of delivery.

:· **A WHOLE NEW DIMENSION OF SKIN SCREENING: HEINE CUBE SYSTEM.**
Image and data management for up to ten mobile, digital HEINE iC 1 dermatoscopes. Just one highly intelligent investment can help integrate patient data, manage images, monitor progression and increase patient loyalty – and makes work independent, convenient and intuitive. More information can be found on our website: www.heine.com/en/digital

Due to local regulations, some products may not be available in your country.

HEINE® NC 2 Dermatoscope

The all-in-one dermatoscope

LEDHQ
LED NOW IN HEINE QUALITY.

:· **Precise images.** The contact plate [01] achieves a clear, reflection-free and highly detailed image in 10× magnification, even without immersion fluid.

:· **Non-contact.** Without the magnetically-held contact plate [02], the NC 2 is used for non-contact examination in 6× magnification for hygienic and efficient skin examination with a large field of view.

:· **Digital.** The optional iPhone®/iPod®* accessory and the free NC 2 app we've developed allow you to use the NC 2 like a digital camera. With up to 30× digital magnification and up to 12-megapixel resolution.** Including an extensive range of documentation options: integrated patient management, email function, classification of image information, and patient details on a bodymap. Even in non-contact mode.

:· **Polarised illumination** for immediate examination without the use of contact fluids.

:· HEINE has set a new standard which maintains that only the best is good enough, from the selection of materials to processing, from light intensity and thermal management to a colour rendering index as high as possible. **That's what we call LED in HEINE Quality – or LED**HQ**.**

:· **An especially large overview field** thanks to HEINE precision optics (lens with 27 mm diameter) for crystal clear, high-resolution images.

:· **Ocular adjustable** from 0 to +3 dpt for correction and refocussing.

:· **Micro-USB connection** for charging the integrated Li-ion battery. The rechargeable battery can be replaced by authorised specialist dealers.

[01]

[02]

* The Apple iPhone or iPod touch is not included in the scope of delivery. Apple, the Apple logo, iPhone and iPod touch are trademarks of Apple Inc., registered in the U.S. and other countries. App Store is a service mark of Apple Inc.
** with iPhone from Version 6s

Laden im **App Store**

Free
HEINE NC 2 App

NC 2 Dermatoscope Sets	LED
NC 2 Dermatoscope (incl. USB handle), **contact plate with scale,** USB cord with E4-USB medical approved plug-in power supply, carry bag [01] Please order mounting case smartphone separately, see accessories page 098.	D-841.78.120
See above, but **without contact plate**	D-842.78.120

★ **TOPSELLER**

:· HEINE NC 2 Dermatoscopes are also suitable for use with the HEINE Cube System.

[01]

Dermatoscopes

HEINE mini 3000® LED Dermatoscope

Even our smaller models are great

LED HQ
LED NOW IN HEINE QUALITY.

:- **Modern pocket dermatoscope with handy dimensions:** small on the outside, but huge on the inside.
:- HEINE has set a new standard which maintains that only the best is good enough, from the selection of materials to processing, from light intensity and thermal management to a colour rendering index as high as possible.
   That's what we call LED in HEINE Quality – or LEDHQ**.**
:- **Twice as bright** as a conventional XHL Xenon Halogen dermatoscope with maintenance-free LEDHQ illumination – no longer a need to replace the light source.
:- **Exclusive Battery Performance Indicator:** When the instrument is switched on, the maximum light intensity is shown, then the light intensity is regulated down to the level that corresponds to the current charge status of the battery so you know when your batteries need changing.
:- **Fade-Out Feature:** brightness reduces slowly even with low residual capacity, for even more efficient use of dry or rechargeable batteries.
:- **10 x magnification** with focusing optics.
:- **Instrument head made of metal.**
:- **20,000 ON/OFF switch cycles guaranteed.**
:- **Distortion-free image** with high resolution edge to edge thanks to high-quality, colour-neutral achromatic optical system.
:- **Special small contact plate** for the examination of difficult-to-access lesions, for instance between the fingers or toes.
:- **Handle in black or blue.**

★ **TOPSELLER**

mini 3000 Dermatoscope Sets	2.5 V LED
mini 3000 LED Dermatoscope with contact plate **with scale,** 10 ml dermatoscopy oil, mini 3000 Battery handle with batteries, zipper case	**D-888.78.021**
see above, but with contact plate **without scale**	**D-887.78.021**

mini 3000 LED Dermatoscope	2.5 V LED
on mini 3000 battery handle with batteries, contact plate **with scale** and 10 ml dermatoscopy oil	**D-008.78.109**
see above, but with contact plate **without scale**	**D-008.78.107**

HEINE mini 3000® XHL Dermatoscope

The mini 3000 with XHL illumination can do it all just as well as its little big brother with LEDHQ (see above). Except with XHL illumination. Authentic colour rendering and even illumination thanks to concentrated, bright Xenon Halogen light.

mini 3000 Dermatoscope	2.5 V XHL
on mini 3000 battery handle with batteries, contact plate **with scale,** and 10 ml dermatoscopy oil	**D-001.78.109**
see above, but with contact plate **without scale**	**D-001.78.107**

Dermatoscopes

Accessories for DELTA 20 **T** Dermatoscope
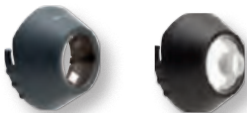
DELTA 20 **T** Dermatoscope Head	LED
with contact plate Ø 23 mm **with scale** and dermatoscopy compendium, without handle	K-008.34.221
with contact plate Ø 23 mm **without scale** and dermatoscopy compendium, without handle	K-008.34.222

Contact plates	
23 mm dia. with scale [01]	K-000.34.216
23 mm dia. without scale [01]	K-000.34.217
Small contact plate, 8 mm dia. [02] for the examination of difficult-to-access lesions	K-000.34.205

[01] [02]

Dermatoscopy oil	
(pack of 6 x 10 ml). Reduces reflexes on the outer layers of skin.	K-000.34.005

SLR Photo adaptor	
for Dermatoscope / digital SLR camera, with optics. Wide Field of View, crisp image	
for Canon	K-000.34.185
for Nikon	K-000.34.186

Adaptor cord	
(1.3 m) for instrument / handle	X-000.99.231

Photo Accessory Set	
includes SLR Photo adaptor, adaptor cord, distance ring and BETA Belt Clip	
for Canon	K-000.34.190
for Nikon	K-000.34.191

BETA Belt Clip	
for BETA handle	X-000.99.008

Accessories for iC 1 Dermatoscope

[01] [02]

Accessories	
Contact plate with scale [01]	K-000.34.201
Mounting case smartphone iC 1/7 for Apple iPhone 7/8 [02]	K-000.34.253
Mounting case smartphone iC 1/6 for Apple iPhone 6/6s	K-000.34.250
Mounting case smartphone iC 1/5 for Apple iPhone 5s/SE	K-000.34.251
iPod mounting case iC 1/T6 for Apple iPod touch 6th generation	K-000.34.252
USB cord with E4-USB medical approved plug-in power supply	X-000.99.303

Accessories for NC 2 Dermatoscope

[01]   [02]

Accessories	
Contact plate with scale [01]	**D-000.78.114**
Mounting case smartphone NC 2/7 for Apple iPhone 7/8 [02]	**D-000.78.127**
Mounting case smartphone NC 2/6 for Apple iPhone 6/6s	**D-000.78.126**
Mounting case smartphone NC 2/5 for Apple iPhone 5s/SE	**D-000.78.125**
iPod mounting case NC 2/T6 for Apple iPod touch 6. Generation	**D-000.78.124**
USB cord with E4-USB medical approved plug-in power supply	**X-000.99.303**

Accessories for mini 3000 LED / XHL Dermatoscope

mini 3000 LED Dermatoscope Head	2.5 V LED
with contact plate **with scale,** without handle	**D-008.78.108**
with contact plate **without scale,** without handle	**D-008.78.106**

mini 3000 XHL Dermatoscope Head	2.5 V XHL
with contact plate **with scale,** without handle	**D-001.78.108**
with contact plate **without scale,** without handle	**D-001.78.106**

[01]   [02]

Contact plates	
with scale [01]	**D-000.78.117**
without scale [01]	**D-000.78.116**
Small contact plate, 8 mm dia. [02] for the examination of difficult-to-access lesions	**K-000.34.008**

Dermatoscopy oil	
Pack of 6 x 10 ml. Reduces reflexes on the outer layers of skin.	**K-000.34.005**

XHL Xenon Halogen spare bulb	2.5 V XHL
for mini 3000 Dermatoscope	**X-001.88.109**

Zipper case	
for mini 3000 Dermatoscope	**D-887.00.000**

It's sure
to increase
your
HEARTBEAT.
Out of pure
JOY.

HEINE

SHOCKPROOF |

[01]

[02]
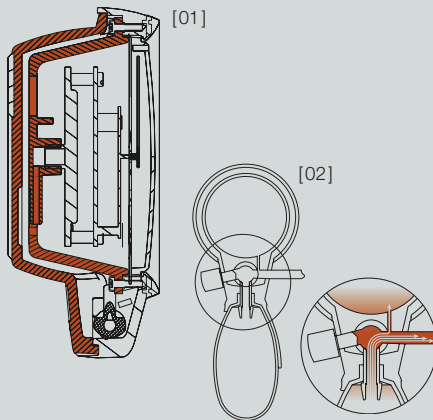
SHOCKPROOF

[01] Shockproof double-walled construction with unique manometer protection.
The robust double-walled construction with a unique triple manometer mount gives ideal protection against shocks. Meets the requirements of European Standard EN ISO 81060-1 and ANSI/AAMI/ISO 81060-1.

AIR PRESSURE DISTRIBUTION SYSTEM
[02] Single-tube construction with an innovative air pressure distribution system. The valve construction provides ideal air pressure conditions to absorb pressure peaks in the air flow to the manometer during inflation. This advantage was only possible until now with twin-tube systems.

CLINICAL APPROVAL

HEINE GAMMA® G7

The model with aluminium alloy construction and precision valve

:· Shockproof

:· Latex-free

:· Aluminium upper housing

:· 10 year guarantee

:· **Shockproof.**
:· **Latex-free.**
:· **Exclusive pressure-distribution system.**
:· **Pressure-proof manometer.** Ensures durability and reliability.
:· **Micro filter.** Protects valve and manometer.
:· **Large diameter scale.** 56 mm diameter black-on-white scale is easy to read.
:· **High quality indicator.** Precisely calibrated, durable and shock resistant.
:· **Large insufflation bulb.** 50 % larger bulb volume for fast inflation of the cuff.
:· **Exclusive air-release valve.** Provides fine and precise air release rate adjustment, quick deflation, and extreme durability. A rubber-stop prevents valve-lock.
:· **Upper housing made of aluminium alloy** with a shock absorbing ring protecting indicator and glass.
:· **Lower housing is moulded of shockproof plastic** with shock absorbing, anti-slip coating.
:· **Light alloy, adjustable spoon.** For both right- or left-handed operation.
:· **High quality, single-tube cuff with velcro fastener.** Washable.
:· **Ergonomic design:** G7 is perfectly balanced for comfort and ease of use.
:· **10 year guarantee.***

*against defects in design, materials and workmanship for a period of 10 years from the date of purchase.

GAMMA G7	
complete with adult cuff, in zipper pouch	**M-000.09.232**
complete with child cuff, in zipper pouch	**M-000.09.233**
Practice kit with child, adult and small adult cuff in zipper pouch	**M-000.09.554**
complete with adult cuff without zipper pouch, box of 10	**M-000.09.560**

HEINE GAMMA® G5

The HEINE standard sphygmomanometer

Combines all design and quality features of the GAMMA G7, except:

:· **Housing is moulded of shockproof plastic** with shock absorbing, anti-slip coating.
:· **Adjustable spoon (plastic).** For both right or left-handed operation.
:· **5 year guarantee.***

*against defects in design, materials and workmanship for a period of 5 years from the date of purchase.

GAMMA G5	
complete with adult cuff, in zipper pouch	M-000.09.230
complete with child cuff, in zipper pouch	M-000.09.231
Practice kit with child, adult and small adult cuff in zipper pouch	M-000.09.555
complete with adult cuff without zipper pouch, box of 10	M-000.09.561

:· **Shockproof**

:· **Latex-free**

:· **Shock-absorbing housing**

HEINE GAMMA® GP

The HEINE standard sphygmomanometer with push-button valve

Combines all design and quality features of the GAMMA G5, but with a push-button valve:

:· **Innovative push-button valve.** Fine and precise air-release rate adjustment, ultra-fast air-release, practically wear-free. Easy to operate by both left and right-handed users.
:· **5 year guarantee.***

*against defects in design, materials and workmanship for a period of 5 years from the date of purchase.

GAMMA GP	
complete with adult cuff, in zipper pouch	M-000.09.242
complete with child cuff, in zipper pouch	M-000.09.243
Practice kit with child, adult and small adult cuff in zipper pouch	M-000.09.556
complete with adult cuff without zipper pouch, box of 10	M-000.09.562

:· **Shockproof**

:· **Latex-free**

:· **Shock-absorbing housing**

Sphygmomanometers
& Stethoscopes

HEINE GAMMA® XXL LF

The top-quality professional model

[01]

:· Oversized scale

:· Latex-free

:· 10 year guarantee

[03]

[02]

NEW

[05]

[04]

Since the GAMMA XXL LF is non-mercurial, it is both safe and environmentally-friendly.

:· **Latex-free.**
:· **Durable polycarbonate construction.** Will hold up in the busiest hospital and practice environments.
:· **Oversized 130 mm diameter scale.** Can be pivoted for clear, easy reading from any angle.
:· **Long spiral inflation tube (3 m).** For increased working distance.
:· **High quality indicator.** Precisely-calibrated and durable.
:· **Precision air-release valve.** Fine and precise air release.
:· **Maintenance-free,** precise and durable manometer.
:· **Mercury-free.** Environmentally friendly.
:· **Wall, desk, rail and wheeled stand.** Adjustable height.
:· **10 year guarantee.***

*against defects in design, materials and workmanship for a period of 10 years from the date of purchase.

GAMMA XXL LF	
LF-W Wall [01]	M-000.09.323
LF-S Wheeled stand [02]	M-000.09.326
LF-R Rail [03]	M-000.09.325
LF-T Desk (non-spiral insufflation tube) [04]	M-000.09.322
NEW: GAMMA XXL LF-WB for Wallboard, see page 153 [05]	M-000.09.327

Accessories	
Cuff-holder for GAMMA XXL LF-T	M-000.09.141
Desk stand for GAMMA XXL LF-T	M-000.09.142
Adjustable wheeled stand for GAMMA XXL LF-S (Height 80 – 125 cm)	M-000.09.145
Universal mounting plate for GAMMA XXL LF-W, -S, -R	M-000.09.306
Rail clamp for GAMMA XXL LF-R	M-000.09.307
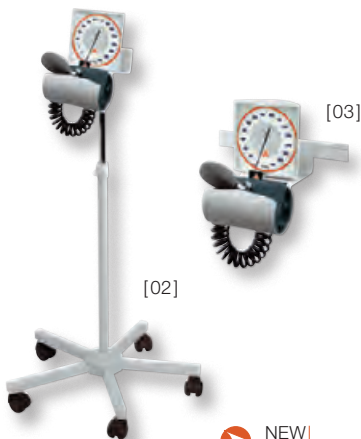
Blood-pressure cuffs and accessories
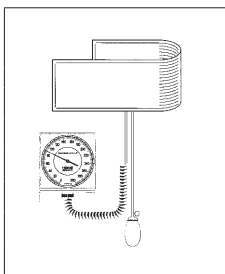
Latex-free blood-pressure cuffs

Cuffs for GAMMA G7 / G5 / GP / XXL LF sphygmomanometers.

:· **Latex-free.**
:· **Fit the most widely used sphygmomanometers.**
:· **High-quality velcro cuffs made of wear-resistant material.** Physiologically tested.
:· **Double-sewn.**
:· **Washable.**
:· **Index mark for exact positioning.**
:· **Clear indication of size and control mark for arm circumference.**
:· **Extra thick, highly flexible tube.** For a long life.
:· **Proven reliability.** Absolutely airtight system.

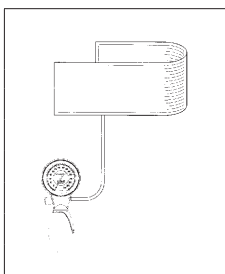| GAMMA G7 / G5 / GP	Single-tube cuffs (cpl.) Size	Circumference / cm		Single-tube bladders Size		Outer cuffs Size	
Infant [01]	6 x 28	8 – 13	M-000.09.700	5 x 9	M-000.09.661	6 x 28	M-000.09.059
Child [02]	10 x 34	13 – 20	M-000.09.702	7 x 14	M-000.09.663	10 x 34	M-000.09.060
Adult small [03]	14 x 53	20 – 29	M-000.09.704	11 x 23	M-000.09.664	14 x 53	M-000.09.061
Adult [04]	14 x 58	29 – 41	M-000.09.619	12 x 28	M-000.09.665	14 x 58	M-000.09.055
Adult large [05]	17 x 70	35 – 47	M-000.09.706	15 x 34	M-000.09.668	17 x 70	M-000.09.058
Thigh [06]	20 x 86	41 – 59	M-000.09.615	18 x 41	M-000.09.667	20 x 86	M-000.09.057

GAMMA XXL LF	Twin-tube cuffs (cpl.) Size	Circumference / cm		Twin-tube bladders Size		Outer cuffs Size	
Infant [01]	6 x 28	8 – 13	M-000.09.701	5 x 9	M-000.09.671	6 x 28	M-000.09.059
Child [02]	10 x 34	13 – 20	M-000.09.703	7 x 14	M-000.09.673	10 x 34	M-000.09.060
Adult small [03]	14 x 53	20 – 29	M-000.09.705	11 x 23	M-000.09.674	14 x 53	M-000.09.061
Adult [04]	14 x 58	29 – 41	M-000.09.629	12 x 28	M-000.09.675	14 x 58	M-000.09.055
Adult large [05]	17 x 70	35 – 47	M-000.09.631	15 x 34	M-000.09.678	17 x 70	M-000.09.058
Thigh [06]	20 x 86	41 – 59	M-000.09.625	18 x 41	M-000.09.677	20 x 86	M-000.09.057

Please note that the position of the connections on the cuffs and bladders has changed.
When ordering spare parts, always quote the LOT number printed on the cuff. This will enable us to supply the correct bladders/ outer cuffs.

[01]   [02]   [03]   [04]   [05]   [06]

Sphygmomanometers & Stethoscopes
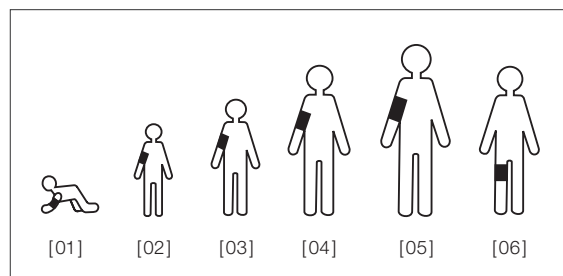
HEINE® EN 200 BP Automatic Digital Sphygmomanometer

For reliable and medical relevant measurement values

[01]

:· **Outstanding measurement accuracy with absolutely precise results (+/- 3 mmHg).**

:· **Digital, fully automatic and with intuitive menu navigation.** Easy to use, optimises the workflow and saves time.

:· **Graphic display with 16 mio. colours and touch screen.**

:· **Reliably detects cardiac dysrhythmia and motion artifacts.**

:· **Improved hygienic reprocessing** due to optimised design and without any moving control elements.

:· **Three measuring modes.** Two automatic and one manual measurement mode: rapid single measurements, double measurements and manual measurements (auscultation with stethoscope). Offers reliable and medical relevant measuring values for a professional diagnostic in every situation of day-to-day medical care.

:· **Quick release connector.** Cuffs (reusable cuffs and single-patient use cuffs) can be changed within seconds – the correct cuff size for every patient.

:· **Capable of memorising** recent blood pressure and pulse readings. 500 memory spaces per measurement mode.

Core ABPM Measure Technology exclusively manufactured for HEINE by ERKA.

EXCLUSIVELY AT HEINE
· Outstanding measurement accuracy
· Digital, fully automatic
· Memory capacity

EN 200 BP Automatic Digital Sphygmomanometer	
EN 200 BP **as single module** with long USB cord and E 4-USB plug-in power supply, coiled tubing to connect cuffs, without cuffs [01]	M-000.09.202
EN 200 BP **for use with the EN 200 Wall Transformer** (with short USB cord), coiled tubing to connect cuffs, without cuffs	M-000.09.201

:· **The HEINE Cuff Basket** offers an optimised workflow.

[02]

Accessories	
Cuff Basket (175 mm x 170 mm x 97,7 mm) [02]	M-000.09.140
Coiled tubing to connect cuffs	M-000.09.091
USB cord, short	X-000.99.203
USB cord, long	X-000.99.204
E 4-USB plug-in power supply	X-000.99.305

HEINE® EN 200 BP Sets

EN 200 BP as Single Module	
Set complete with EN 200 BP as single module (and long USB cord, E 4-USB plug-in power supply), coiled tubing to connect cuffs, 3 Quick Cuff reusable cuffs (adult, small / adult / adult, large)	M-000.09.171

EN 200 BP for EN 200 Wall Transformer	
Set complete with EN 200 BP for use with the EN 200 Wall Transformer (and short USB cord), coiled tubing to connect cuffs, 3 Quick Cuff reusable cuffs (adult, small / adult / adult, large)	M-000.09.170

Due to local regulations, some products may not be available in your country.

Cuffs for EN 200 BP

Various cuffs for every area of application

:· **Easy handling.** Cuff with integrated bladder. Simplified hygienic reprocessing.
:· **Excellent skin compatibility.** Latex and PVC free. Biocompatible.
:· Available as **Reusable Cuffs** or **Single-Patient Use Cuffs.**
:· **Colour-coded tubes** (every cuff size has a different colour).

Quick Cuff (Reusable)	Size/ cm	Circumference/ cm	
Adult, small [03]	42x12	20,5 – 28	**M-000.09.803**
Adult [04]	52x14	27 – 35	**M-000.09.804**
Adult, large [05]	66x17	34 – 43	**M-000.09.805**
Adult, XL [06]	83x21	42 – 54	**M-000.09.806**

Quick Cuff Single Patient (in packs of 10)	Size/ cm	Circumference/ cm	
Adult, small (10 pcs.) [03]	42x12	20,5 – 28	**M-000.09.813**
Adult (10 pcs.) [04]	52x14	27 – 35	**M-000.09.814**
Adult, large (10 pcs.) [05]	66x17	34 – 43	**M-000.09.815**

[03]   [04]   [05]   [06]

Sphygmomanometers & Stethoscopes
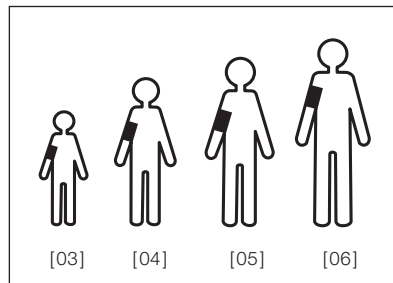
HEINE GAMMA® STETHOSCOPES

:· **Solid chest piece** and ideal weight avoid stray noise from manipulation and ensure excellent resonance. Hygienic matt chrome finish.
:· **Chest piece with non-chill rims** for the comfort of the patients.
:· Ergonomic, chrome-plated binaurals. Individually adjustable.
:· **High-quality Y-piece tubing** for perfect acoustics and sound reproduction. Length 56 cm.
:· **Latex-free** materials.

HEINE GAMMA® 3.1 Pulse Stethoscope

For fine acoustic performance.

:· **Stethoscope with solid flat chest piece.** The chest piece can be easily inserted under the sphygmomanometer cuff.
:· **High-quality membrane,** 44 mm dia.
:· **Single-tube construction** with excellent sound transmission.
:· **Includes ear olives** (large / soft) for sound insulation.
:· **Optional available:** Ear olives, (small / hard) (M-000.09.946).

GAMMA 3.1	M-000.09.941

HEINE GAMMA® 3.2 Acoustic Stethoscope

For excellent acoustic performance.

Technical data as GAMMA 3.1, but with a double chest piece.

:· **Combined double chest piece** with two different frequency ranges to choose from: A high-quality membrane on one side and a conical acoustic head on the other side.
:· **High-quality membrane,** 44 mm diameter for excellent acoustic performance and sound transmission.
:· **Cone diameter 30mm.**

GAMMA 3.2	M-000.09.942

HEINE GAMMA® 3.3 Acoustic Stethoscope

For the examination of children.

Technical data as GAMMA 3.2.

:· **Reduced contact area** of 31 mm makes GAMMA 3.3 ideal for examining children.

GAMMA 3.3	M-000.09.943

HEINE GAMMA® C 3 Cardio Stethoscope

Specially developed for cardiology.

:· **Exceptional acoustic performance,** particularly in the cardiac frequency range.
:· **Combined double chest piece** with two different frequency ranges. Instant selection of a double membrane on one side or a conical acoustic head on the other.
:· **High-performance double membrane,** 45 mm diameter gives ideal sound transmission and perfect skin contact for exceptional sound reproduction.
:· **Two-in-one tube system** for enhanced performance. Very supple, yet kink-resistant with exceptional acoustic reproduction.
:· **Includes ear olives** (large / soft) and one pair of replacements (small / hard) for sound insulation.

GAMMA C 3	M-000.09.944

We bring
LIGHT
into
the dark.

HEINE

Instrument Head for HEINE UniSpec® Tubes
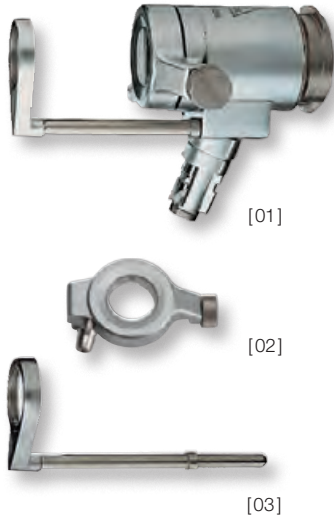
[01]

[02]

[03]

Illumination by Fiber Optic cable and projector or 3.5 V BETA Handle with illumination adaptor (X-002.98.002).

:· Annular Fiber Optic illumination. Bright, reflex-free illumination.
:· Magnifying lens 1.5 x. High-resolution image.
:· Hinged viewing window with insufflation port. Improved vision by insufflation.
:· Stainless Steel.

Instrument head for UniSpec Disposable Tubes	
complete with viewing window and swivel lens 1,5 x [01]	**E-003.18.100**
without viewing window and swivel lens	**E-003.18.098**
Viewing window only [02]	**E-003.18.099**
Swivel lens 1.5 x, only (for sigmoidoscopes) [03]	**E-003.18.096**
same, but 1.8 x (only suitable for proctoscopes and anoscopes)	**E-003.19.099**

HEINE UniSpec® Disposable Tubes

:· Disposable. No cross-infection.
:· No cleaning required. Saves time.
:· Moulded in patient-friendly thermoplastic.
No cold sensation on insertion.
:· Light transmission through the tube wall. Distal annular light exit.
Bright, homogeneous illumination of the area examined, reflex reduction.
:· Graduated inside the tube for patient comfort. Indication of insertion length.

UniSpec Disposable Anoscopes (85 x 20 mm)	
Pack of 25 disposable anoscopes	**E-003.19.925**
Box of 100 (4 packs of 25) anoscopes	**E-003.19.911**

UniSpec Disposable Proctoscopes (130 x 20 mm)	
Pack of 25 disposable proctoscopes	**E-003.19.825**
Box of 100 (4 packs of 25) proctoscopes	**E-003.19.811**

UniSpec Disposable Sigmoidoscopes (250 x 20 mm)	
Pack of 25 disposable sigmoidoscopes	**E-003.18.825**
Box of 100 (4 packs of 25) sigmoidoscopes	**E-003.18.811**

85 x 20 mm   130 x 20 mm   250 x 20 mm

⊗: Single use only.

HEINE Anoscope / Proctoscope Illumination Head

[01]

One single illumination head for all the tubes shown on this page.
For 2.5 V or 3.5 V handle or Fiber Optic illumination with Fiber Optic projector and cable.

:· **A wide range of tubes with either direct or 90° direction of view available.**
Many different diagnostic and treatment methods are possible.
:· **Tubes can be rotated through 360°.** Select the ideal position for treatment or examination.
:· **Viewing window and swivel lens both offer 2x magnification.**
High-resolution image.
:· **Smooth, rounded surface.** Easy to clean. F.O. version can be cleaned with conventional disinfectants.

[02]   [03]

Illumination head	2.5 V XHL	3.5 V XHL	F.O.
complete with swivel lens and viewing window [01]	E-001.19.101	E-002.19.101	E-003.19.120
Illumination head without accessories	E-001.19.102	E-002.19.102	E-003.19.121
XHL Xenon Halogen spare bulb	X-001.88.040	X-002.88.051	
Swivel lens, only [02]			E-000.19.103
Viewing window, only [03]			E-000.19.104

Tubes with straight direction of view

60 x 22 mm   120 x 22 mm

Anoscope / Proctoscope with proximal illumination.

:· **Distal end of tube angled.** Assures a good view and easy access with instruments.
:· **All-metal construction.** Easy to clean and disinfect with conventional solutions.

Tubes with straight direction of view	
Anoscope tube 60 mm x 22 mm dia., complete with obturator	E-000.19.111
Proctoscope tube 120 mm x 22 mm dia., complete with obturator	E-000.19.107

Tubes with 90° direction of view (Blond)

100 x 20 mm   130 x 25 mm

Proctoscope with proximal illumination.

:· **Polished metal viewing mirror.** Tough, unbreakable.
:· **End-piece with mirror detachable.** Easy to clean, disinfect or sterilize.

Proctoscope Tubes	
Proctoscope tube, 90° direction of view, 130 mm x 25 mm dia.	E-000.19.105
Proctoscope tube, 90° direction of view, 100 mm x 20 mm dia.	E-000.19.114

Proctological Instruments

Due to local regulations, some products may not be available in your country.

HEINE F.O. Anoscopes with annular Fiber Optic Illumination

70 x 25 mm 70 x 20 mm 70 x 15 mm

Illumination by Fiber Optic cable and projector or 3.5 V BETA handle with illumination adaptor (X-002.98.002).

:∙ **Three different diameters: 15 mm, 20 mm and 25 mm.** Useful range of sizes.
:∙ **Annular Fiber Optic illumination.** Bright illumination of the area to be examined.
:∙ **Angled tube-end.** Ensures a good view and easy access with instruments.
:∙ **Rounded proximal shield.** Easy insertion and rotation.
:∙ **Tube can be dismantled.** Easy to clean and disinfect with conventional solutions.
:∙ **Stainless steel.** Durable.

Anoscope	F.O.
70 x 25 mm dia., complete with obturator	**E-003.19.325**
70 x 20 mm dia., complete with obturator	**E-003.19.320**
70 x 15 mm dia., complete with obturator	**E-003.19.315**

HEINE F.O. Proctoscopes with Distal Annular Illumination

Illumination by Fiber Optic cable and projector or 3.5 V BETA handle with illumination adaptor (X-002.98.002).

:∙ **Distal annular Fiber Optic (F.O.) illumination.** Bright, reflex-free illumination.
:∙ **Magnifying lens 1.8x magnification.** High-resolution image.
:∙ **Hinged viewing window with insufflation port.** Vision can be improved by insufflation.
:∙ **Angled tube-end.** Improves vision and access.
:∙ **End-piece can be unscrewed.** Easy to clean and disinfect with conventional solutions.
:∙ **Stainless steel.** Durable.

Proctoscope	F.O.
130 x 20 mm dia., complete with obturator, viewing window, swivel lens and end-piece	**E-003.19.213**
Proctoscope tube without accessories [01]	**E-003.19.013**
Obturator, only [02]	**E-003.19.113**

End-piece, only [03]	**E-003.19.095**
Viewing window, only [04]	**E-003.18.099**
Swivel lens 1.8x, only [05]	**E-003.19.099**

[01] [02]

[03] [04]

[05]

Proctological Instruments

Due to local regulations, some products may not be available in your country.

HEINE F.O. Sigmoidoscopes with Distal Annular Illumination

Illumination by Fiber Optic cable and projector or 3.5 V BETA handle with illumination adaptor (X-002.98.002).

:· **Available in various sizes: 300 x 20 mm, 250 x 20 mm, 200 x 20 mm, 250 x 16 mm, 200 x 11.4 mm.** Sizes suitable for most patients of all ages.
:· **Distal annular Fiber Optic (F.O.) illumination.** Bright, reflex-free illumination.
:· **Swivel lens with 1.5 x magnification.** High-resolution image.
:· **Opening viewing window with insufflation port.** Vision can be improved by insufflation.
:· **Graduated in cm.** Indication of insertion length.
:· **Plastic end-piece.** Insulated.
:· **End-piece can be unscrewed.** Easy to clean and disinfect with conventional solution.
:· **Stainless steel.** Durable.

Sigmoidoscope	F.O.
300 x 20 mm dia. with obturator, viewing window, swivel lens and end-piece [01]	**E-003.18.230**
End-piece, only	**E-003.18.095**
250 x 20 mm dia. with obturator, viewing window, swivel lens and end-piece	**E-003.18.225**
End-piece, only	**E-003.18.095**
200 x 20 mm dia. with obturator, viewing window, swivel lens and end-piece	**E-003.18.220**
End-piece, only	**E-003.18.095**
250 x 16 mm dia. with obturator, viewing window, swivel lens and end-piece [02]	**E-003.18.525**
End-piece, only	**E-003.18.088**
200 x 11.4 mm dia. with obturator, viewing window and swivel lens [03]	**E-003.18.240**
End-piece, only	**E-003.18.094**

Viewing window, only [04]	**E-003.18.099**
Swivel lens 1.5 x, only [05]	**E-003.18.096**

300 x 20 mm [01]   250 x 16 mm [02]   200 x 11,4 mm [03]

[04]

[05]

Double Bulb Insufflator / Hygiene Filter

For use with anoscope, proctoscope and rectoscope

:- **Latex-free double bulb insufflator** for air insufflation.
:- For possible use with anoscope, proctoscope and rectoscope.
:- **Disposable hygiene filter** minimises contamination of the double bulb insufflator.

Double Bulb Insufflator	**E-000.18.105**
Disposable Hygiene Filters 25 pcs / pack	**E-000.18.116**

Sponge Holder

:- **High quality design in stainless steel.**

Sponge holder 400 mm working length	**E-000.18.906**

HEINE Illumination Adaptor
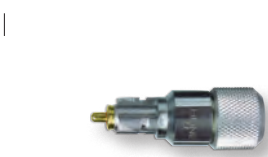
Can be attached to any HEINE 3.5 V power source to illuminate any HEINE fiber optic instrument, e.g. anoscope, proctoscope or sigmoidoscope.

Illumination adaptor	3.5 V XHL
Illumination adaptor	**X-002.98.002**
XHL Xenon Halogen spare bulb	**X-002.88.078**

Proctological Instruments

Due to local regulations, some products may not be available in your country.

Sigmoidoscope / Proctoscope Kit RE 7000

Set complete with: **Instrument head** for UniSpec Disposable Tubes with viewing window and swivel lens 1.5 x
Pack of 25 UniSpec Sigmoidoscope Tubes 250 mm
Pack of 25 UniSpec Proctoscope Tubes 130 mm
Pack of 25 UniSpec Anoscope Tubes 85 mm
Sponge holder
Double bulb insufflator
F.O. Projector HK 7000, 150 W
Fiber Optic cable

Sigmoidoscope / Proctoscope Kit RE 7000	F.O.
Complete Sigmoidoscope / Proctoscope Kit RE 7000	E-096.15.501

Spare bulb, 150 W	Y-096.15.102
Disposable Hygiene Filters 25 pcs / pack	E-000.18.116

230 V is the standard mains voltage. If a different voltage is required, e. g. 120 V, please specify when ordering.

Sigmoidoscope / Proctoscope Kit BETA 4 USB

Set complete with: **Instrument head** for UniSpec Disposable Tubes with viewing window and swivel lens 1.5 x.
Pack of 25 UniSpec Sigmoidoscope Tubes 250 mm
Pack of 25 UniSpec Proctoscope Tubes 130 mm
Pack of 25 UniSpec Anoscope Tubes 85 mm
Sponge holder
Double bulb insufflator
Illumination adaptor
Connecting cord 2 m
BETA 4 USB Rechargeable Handle with
E4-USB Medical approved plug-in power supply

Sigmoidoscope / Proctoscope Kit BETA 4 USB	3.5 V XHL
Complete Sigmoidoscope / Proctoscope Kit BETA 4 USB	E-097.27.388

Spare bulb	X-002.88.078
Disposable Hygiene Filters 25 pcs / pack	E-000.18.116

Due to local regulations, some products may not be available in your country.

Let there be LIGHT.

HEINE

HEINE EL 10 LED® Examination Light

A real highlight in all respects with LED^HQ illumination

LED HQ
LED NOW IN HEINE QUALITY.

The EL 10 LED examination light distinguishes itself through an absolutely homogeneous field of light. The light intensity can be regulated continuously. The diameter of the spot size can be freely adjusted between 8.5 and 14 cm, with a working distance of 30 cm. Controls with ergonomic grip allow for intuitive and fast adjustment of brightness and spot size. The compact illumination head (Ø approx. 60 mm) allows an almost coaxial illumination, particularly in difficult application situations.

:• **Bright and homogeneous.** Perfect illumination in every examination situation. unobstructed view of the ear canal and tympanum.
:• HEINE has set a new standard which maintains that only the best is good enough, from the selection of materials to processing, from light intensity to dimmability, and from thermal management to a colour rendering index as high as possible. **That's what we call LED in HEINE quality – or LED^HQ.**
:• **3 different mounting options.** Wall mounting, clamp for table-top mounting or on a wheeled stand.
:• **Solid construction.** Reliable operation and illumination power for many years.
:• **Hygiene.** Easy and efficient cleaning and disinfection.
:• **Coiled goose neck.** Easy and intuitive adjustment.
:• **An electrical control system** monitors all functions and guarantees safety.

:• **Continuous adjustment**

:• **One-hand operation**

:• **Compact design**

EL 10 LED Examination Light	LED
with wall mount [01]	J-008.27.001
with clamp for table-top mounting [02]	J-008.27.002
with wheeled stand, metal base [03]	J-008.27.003

Clamp for table-top mounting for EL 10 LED	J-000.27.013
Wheeled stand, metal base with mount for EL 10 LED (Height 80 cm)	Y-096.50.010
Mount for wheeled stand [04]	J-000.27.014

[01]

[02]

[03]

[04]

230 V is the standard mains voltage. If a different voltage is required, e. g. 120 V, please specify when ordering.

LED HQ
LED NOW IN HEINE QUALITY.

HEINE EL3 LED Examination Light

Simply bright LED illumination in LED HQ

:· **Simply bright.** The EL3 LED provides bright, shadow-free illumination precisely at the point of interest.

:· HEINE has set a new standard which maintains that only the best is good enough, from the selection of materials to processing, from light intensity and thermal management to a colour rendering index as high as possible.
That's what we call LED in HEINE quality – or LED HQ.

:· **Shadow-free illumination.** The compact illumination head (Ø approx. 60 mm) allows convenient, precise positioning, particularly in difficult application situations. Optimal positioning eliminates unwanted shadows in the illuminated field.

:· **Maintenance-free and easy to clean.** Cool-Touch closed head design makes disinfection safe and easy.

:· **Optimal positioning.** The light weight head and stable goose neck allow easy and intuitive adjustment and keep the light exactly in the required position.

:· **Various mounting options.** Wall mounting, clamp for table-top mounting or on a wheeled stand.

:· **Shadow-free illumination**

:· **LED in HQ**

:· **Maintenance-free and easy to clean**

EL3 LED Examination Light	LED
with wall mount [01]	J-008.27.011
with clamp for table-top mounting [02]	J-008.27.013
with wheeled stand, metal base [03]	J-008.27.014

Clamp for table-top mounting for EL3 LED	J-000.27.013
Wheeled stand, metal base with mount for EL3 LED (Height 80 cm)	Y-096.50.010
Mount for wheeled stand [04]	J-000.27.014

[01]

[02]

[03]

[04]

Examination Lights
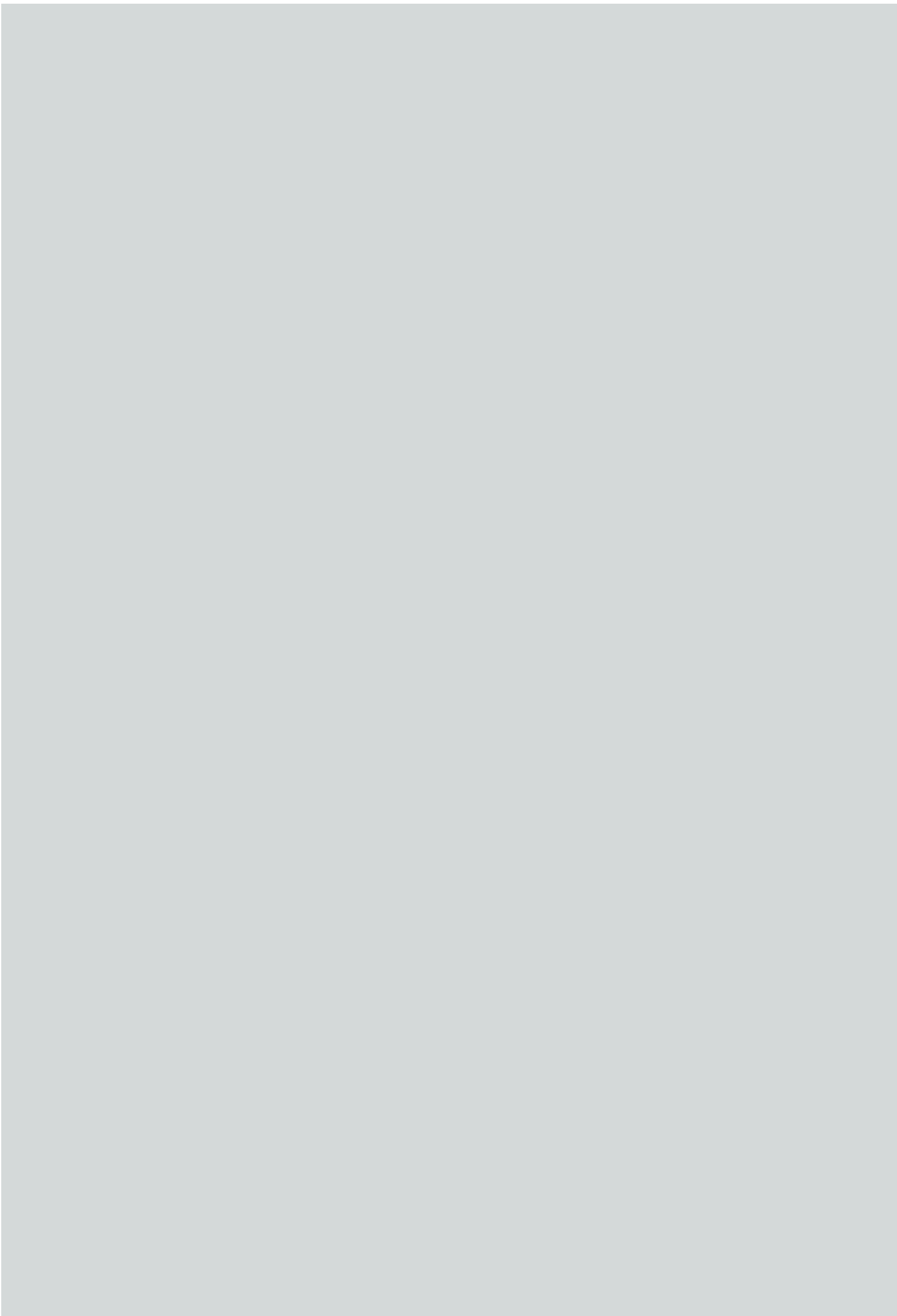
Once you've TRIED it, you'll never WANT to do without it AGAIN.

HEINE

Various magnifications (from 2.3 x to 6 x), working distances, wearing options (unique S-FRAME, Lightweight Headband and Headband Professional L) and LoupeLight 2 illumination systems are available. They provide homogeneous, reflex-free illumination even in deep cavities. State-of-the-art LED HQ technology and design!

HEINE Binocular Loupes are used in many disciplines: e.g. General Medicine, Dermatology, Surgery, Cosmetic Surgery, Neurosurgery, ENT, Ophthalmology, Veterinary Medicine, Dentistry etc.

Definitions:

:· **Working distance (x)**
The distance, at which the optics of a loupe are sharply-focused.
:· **Depth of field (y)**
The range over which the image remains sharply-focused.
:· **Field of view (z)**
The area that can be seen under magnification at the nominal working distance.
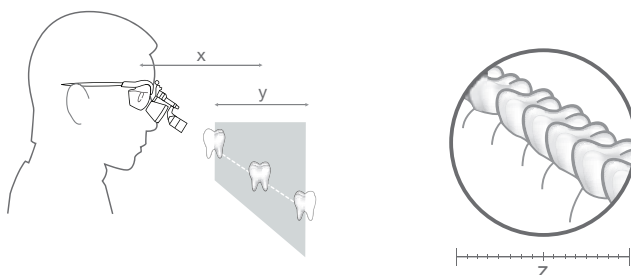
How to choose the correct Loupe:

:· Choose your magnification
Choose the lowest magnification that meets your needs. The lower the magnification, the larger the field of view and the easier the loupe will be to use.

:· Choose your optics
HR: High-Resolution achromatic optics with excellent optical qualities.

HRP: High Resolution Prismatic optics with excellent optical qualities for 3.5 x magnification and higher.

C: Economy.

:· Choose your working distance
This is an individual choice depending on the examiner's size and working position. The longer the working distance, the bigger the field of view.

:· Choose your mounting option
Spectacle frame or Headband.

:· Add illumination
Coaxial bright light is especially-important when using magnification.

HEINE Binocular Loupes

	HR	HRP	C
			C 2.3K C 2.3
Magnification			
2.3 x			☐
2.5 x	☐		
3.5 x		☐	
4 x		☐	
6 x		☐	
Working distance			
250 mm (with close-up lenses)	☐	––	––
340 mm	☐	☐	☐
420 mm	☐	☐	––
450 mm	––	––	☐
520 mm	☐	––	––
Mounting options			
S-FRAME	☐	☐	––
Lightweight Headband	––	––	☐
Professional Headband	☐	☐	––
Simple Metal Frame	––	––	☐
Accessories			
Close-up Lenses*	☐ (for 340 mm)	––	––
Protective Lenses	☐	☐	☐
LoupeLight 2 (Pages 129/130)	☐	☐	––
Features			
i-View Function**	☐	☐	––
Modular	☐	☐	––
Water-resistant	☐	☐	––
Achromatic Optics	☐	☐	––
Optional Prescription Correction	☐	☐	––
Page	122 – 123	124 – 125	126

* To reduce the working distance to 250 mm.

** **i-View function:** Provides any angle of view and flips up the optics independently of the illumination beam.

Loupes & Headlights

HEINE® HR 2.5x High Resolution Binocular Loupes

With i-View loupe mount

HR 2.5x Optics with i-View

:. **Achromatic optics** for crisp, bright images with colour-correction.
:. **Lightweight** (51 g).
:. **Water-resistant.**
:. **Independent adjustment** of left and right optics for perfect PD adjustment.
:. **High magnification** with a large field of view and excellent depth of field.
:. **i-View loupe mount** provides any angle of view and flips up the optics independently of the optional LoupeLight 2.

:. Multi-coated Achromatic Optics

:. Exceptional Focal Range

:. Crisp, High-Resolution Image

:. Unique i-View Loupe Mount

HR 2.5x Specifications			
Working distance in mm	340	420	520
Field of view in mm	90	130	180
Depth of field in mm	110	180	260

Optional
clip-in correction
frame

Mounting Options:

:. HEINE® S-FRAME

:. **Maximum comfort** with a modern, ergonomic design.
:. **Malleable temples and nose pad** can be customized to fit any face perfectly.
:. **Innovative materials** – Carbon-Kynetium reduces weight (24 g).
:. **Tough polycarbonate protective lenses.**
:. **Optional clip-in correction frame** for prescription lenses.

Professional L
Headband with
S-GUARD

:. HEINE® Professional L Headband **with** S-GUARD

:. **S-GUARD splash protection.**
:. **Ergonomic nose pad** for comfort during long procedures.
:. **Fully-adjustable for height and width** to fit any head.
:. **Hygienic and comfortable leather cushions.**
:. **Optional clip-in correction frame** for prescription lenses.

Professional L
Headband
without S-GUARD

:. HEINE® Professional L Headband **without** S-GUARD

:. **Ideal for spectacle-wearers** in combination with their own spectacles.
:. **Fully-adjustable for height and width** to fit any head.
:. **Hygienic and comfortable leather cushions.**

HEINE® HR 2.5x High Resolution Binocular Loupes

With i-View loupe mount

Set A

Set B
with S-GUARD

Set C
without
S-GUARD

HR 2.5x Sets with i-View loupe mount			
Working distance in mm	340	420	520
Set A: HR 2.5x optics with i-View on S-FRAME Protective lenses 2 sterilisable swivel levers Retaining cord Cleaning fluid Cleaning cloth Carrying case	C-000.32.355	C-000.32.356	C-000.32.567
Set B: HR 2.5x optics with i-View on Professional L Headband S-GUARD splash protection Protective lenses 2 sterilisable swivel levers Cleaning fluid Cleaning cloth	C-000.32.365	C-000.32.366	C-000.32.367
Set C (without S-GUARD): HR 2.5x optics with i-View on Professional L Headband Protective lenses 2 sterilisable swivel levers	C-000.32.865	C-000.32.866	C-000.32.867

For details of accessories and LoupeLight 2 see pages 128 – 130.

Loupes & Headlights

Carrying cases and storage cases may deviate in shape and colour.

HEINE® HRP High Resolution Prismatic Binocular Loupes
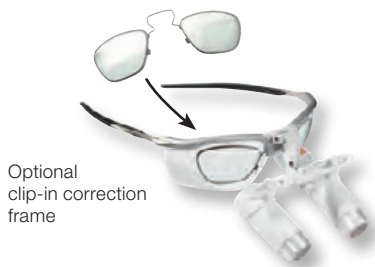
With i-View loupe mount

HRP Optics with i-View

:· **Achromatic optics** for crisp, bright images from edge-to-edge.
:· **Lightweight** (85 g).
:· **Water-resistant.**
:· **Independent adjustment** of left and right optics for perfect PD adjustment.
:· **Highest magnification:** Choice of 3.5 x, 4 x and 6 x.
:· **i-View loupe mount** provides any angle of view and flips up the optics independently of the optional LoupeLight 2.

:· **Multi-coated Achromatic Optics**

:· **Prismatic for highest magnification**

:· **Crisp, High-Resolution Image**

:· **Unique i-View Loupe Mount**

HRP Specifications			
Working distance in mm	HRP 3.5 x / 420	HRP 4 x / 340	HRP 6 x / 340
Field of view in mm	65	50	40
Depth of field in mm	60	40	30

Mounting Options:

:· HEINE® S-FRAME

:· **Maximum comfort** with a modern, ergonomic design.
:· **Malleable temples and nose pad** can be customized to fit any face perfectly.
:· **Innovative materials** – Carbon-Kynetium reduces weight (24 g).
:· **Tough polycarbonate protective lenses.**
:· **Optional clip-in correction frame** for prescription lenses.

Optional
clip-in correction
frame

:· HEINE® Professional L Headband **with** S-GUARD

:· **S-GUARD splash protection.**
:· **Ergonomic nose pad** for comfort during long procedures.
:· **Fully-adjustable for height and width to fit any head.**
:· **Hygienic and comfortable leather cushions.**
:· **Optional clip-in correction frame** for prescription lenses.

Professional L
Headband with
S-GUARD

HEINE® Professional L Headband **without** S-GUARD

:· Ideal for spectacle-wearers in combination with their own spectacles.
:· Fully-adjustable for height and width to fit any head.
:· Hygienic and comfortable leather cushions.

Professional L
Headband
without S-GUARD

HEINE® HRP High Resolution Prismatic Binocular Loupes

With i-View loupe mount

Set A

Set B
with S-GUARD

Set C
without
S-GUARD

HRP Sets with i-View loupe mount			
Working distance in mm	**HRP 3.5 x / 420**	**HRP 4 x / 340**	**HRP 6 x / 340**
Set A: HRP optics with i-View on S-FRAME Protective lenses 2 sterilisable swivel levers Retaining cord Cleaning fluid Cleaning cloth Carrying case	C-000.32.430	C-000.32.431	C-000.32.432
Set B: HRP optics with i-View on Professional L Headband S-GUARD splash protection Protective lenses 2 sterilisable swivel levers Cleaning fluid Cleaning cloth	C-000.32.440	C-000.32.441	C-000.32.442
Set C (without S-GUARD): HRP optics with i-View on Professional L Headband Protective lenses 2 sterilisable swivel levers	C-000.32.840	C-000.32.841	C-000.32.842

For details of accessories and LoupeLight 2 see pages 128 – 130.

Loupes & Headlights

Carrying cases and storage cases may deviate in shape and colour.

HEINE® C 2.3 Binocular Loupes

The cost-effective all-purpose loupe

Ideal for dental laboratories and general medical examination.

:- **Crisp, clear images.** Multi-coated, scratch-resistant silica glass lenses produce crisp, clear images.
:- **Flexibility for precise adjustment.** Independently adjustable PD controls ensure precise alignment of the optics.
:- **Super lightweight and comfortable – only 46 g.** Flexible coil temples wrap-around to fit the user's anatomy securely and comfortably. Spring-loaded temples will adjust to the user's anatomy. Lightweight metal frame.
:- **The ideal all-purpose loupe.** The feather-light weight, low-profile design and low cost of the C 2.3 loupe make it the ideal all-purpose loupe.
:- **Working distance.** 340 mm or 450 mm (13 or 18 inches).
:- Also available as C 2.3 K on Lightweight Headband.

C 2.3

C 2.3 K

Specifications	C 2.3 x / **340 mm**	C 2.3 x / **450 mm**
Magnification	2.3 x	2.3 x
Working distance	340 mm	450 mm
Field of view dia.	110 mm	130 mm
Weight	46 g	46 g
Depth of Field	120 mm	190 mm

User's refractive error	Effective working distance C 2.3 x / **340 mm**	Effective working distance C 2.3 x / **450 mm**
+2	440 mm	670 mm
+1	390 mm	560 mm
0	340 mm	450 mm
−1	300 mm	420 mm
−2	270 mm	370 mm

Important information for those who wear glasses:
The C 2.3 K Series loupe can also be worn without the use of spectacles. Should you prefer to examine without glasses, the charts illustrate how your refractive error will affect the loupe working distance. If you are unsure of your prescription, please consult your eye care provider.

C 2.3 / C 2.3 K Binocular Loupes	
C 2.3 / 340 Loupe in case	**C-000.32.039**
C 2.3 / 450 Loupe in case	**C-000.32.202**
C 2.3 K / 340 Headband Loupe in case	**C-000.32.230**
C 2.3 K / 450 Headband Loupe in case	**C-000.32.231**

Accessories

C 2.3 / C 2.3 K Binocular Loupe Accessories	
Protective case for the C 2.3 Loupes and accessories	**C-000.32.038**
Detachable protective lenses for C 2.3 and C 2.3 K. To protect the optics.	**C-000.32.097**

Carrying cases and storage cases may deviate in shape and colour.

HEINE Binocular Loupes

Ordering Information

Optics with i-View loupe mount for S-FRAME in carrying case

Working distance in mm	340 mm	420 mm	520 mm
HR 2.5 x	C-000.32.595	C-000.32.596	C-000.32.597
HRP 3.5 x		C-000.32.720	
HRP 4 x	C-000.32.721		
HRP 6 x	C-000.32.722		

Optics with i-View and S-GUARD for Professional L Headband

Working distance in mm	340 mm	420 mm	520 mm
HR 2.5 x	C-000.32.585	C-000.32.586	C-000.32.587
HRP 3.5 x		C-000.32.710	
HRP 4 x	C-000.32.711		
HRP 6 x	C-000.32.712		

Optics with i-View for Professional L Headband (without S-GUARD)

Working distance in mm	340 mm	420 mm	520 mm
HR 2.5 x	C-000.32.733	C-000.32.734	C-000.32.735
HRP 3.5 x		C-000.32.736	
HRP 4 x	C-000.32.737		
HRP 6 x	C-000.32.738		

HEINE Binocular Loupes Accessories
Ordering Information

Mounting options

S-FRAME*
For **HR and HRP** Binocular Loupes incl. retaining cord
and cleaning fluid   **C-000.32.302**
* with protective lenses, large (lg).

Professional L Headband
For **HR** and **HRP** optics   **C-000.32.549**

Accessories for optics

HR Close-up Lenses in case
HR 2.5x / 340 mm to 250 mm. The close-up lenses reduce
the working distance of the binocular loupes.
Close-up Lenses for **HR 2.5x** / 340 mm optics   **C-000.32.523**

Protective Lenses
To protect the optics of the **HR and the HRP** loupes
Protective Lenses for **HR** loupes (5 pairs) [01]   **C-000.32.537**
Protective Lenses for **HRP** loupes [02]   **C-000.32.027**

Sterilisable Swivel Levers
For **HR and HRP** loupes with i-View   **C-000.32.551**

Carrying Case
For Binocular Loupe optics or for all sets with S-FRAME   **C-000.32.552**

Accessories for S-FRAME

S-FRAME retaining cord   **C-000.32.305**

S-FRAME replacement part set
with side rubbers, nose pad (1 piece) and screw   **C-000.32.308**

Clip-in correction frame
for prescription lenses   **C-000.32.309**

Protective lenses, large (lg), 1 pair (Standard)   **C-000.32.306**

Protective lenses, small (sm), 1 pair   **C-000.32.307**

Cleaning fluid for lenses, pack of 2   **C-000.32.542**

Carrying cases and storage cases may deviate in shape and colour.

HEINE® LoupeLight 2

Compact LED^HQ Headlight – now even brighter

LED NOW IN HEINE QUALITY.

EXCLUSIVELY AT HEINE
· Compact and Lightweight
· Coaxial Illumination
· Typ. 55,000 Lux

:· HEINE has set a new standard which maintains that only the best is good enough, from the selection of materials to processing, from light intensity to dimmability, and from thermal management to a colour rendering index as high as possible.
That's what we call LED in HEINE Quality – or LED^HQ.

:· **Compact, lightweight (50 g).** Ensures perfect comfort.

:· **Aluminium Housing.** Exclusive aluminium housing protects the optics against dust and moisture to ensure an extraordinary long lifespan and optimal thermal management.

:· **Coaxial Illumination:** Compact coaxial design ensures a completely shadow-free image and allows for excellent illumination of difficult to see areas.

:· **Optional Filter.** Polarisation filter P 2 improves contrast and yellow filter reduces blue light.

:· **Replaceable connecting cord** with high-quality splashproof threaded connector with a length of 1.5 m. Connects the LoupeLight 2 with the mPack mini.

:· **Incl. coloured attachment clips for personalisation.** To fixate the cable and to identify your LoupeLight.

Technical Specification	
Illumination	**Typ. 55 000 Lux**
Colour Temperature	**Typ. 4 000 Kelvin**
LED Operating Life	**Typ. 50 000 hours**
Spot Size	The illuminated field is designed to complement the HR/HRP loupes. 81 mm dia. at 420 mm, 95 mm dia. at 520 mm working distance
Angle of Declination	Stepless and individually adjustable for every examination
Operating Time	**Typ. 9 h with mPack mini** (in continuous operation at full power typ. 4 hours)

:· **Precision multiple lens optical system** consisting of four high-quality lenses. Completely homogeneous illumination of the whole field of view and a clearly defined light spot.
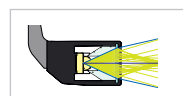
Conventional System [02]
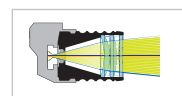
HEINE Precision 4-Lens System [03]

[02]   [03]
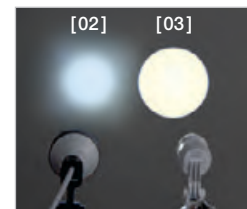
Comparison of homogeneity

HEINE® mPack mini

Compact and lightweight power source for LoupeLight 2 / MicroLight 2

:· **Operating time typ. 9 hours.** In continuous operation at full power typ. 4 hours.

:· **Charging time typ. 4 hours.**

:· **Compact and lightweight.** With a weight of just 95 g and dimensions of 44 x 23 x 101 mm the power source can be easily stowed.

:· **For further information on the mPack mini, please see pages 133 and 150.**

Loupes & Headlights

HEINE® LoupeLight 2 and Accessories

Ordering Information

LoupeLight 2	
LoupeLight 2 for HR/HRP Loupes with i-View loupe mount [01]	**C-008.32.226**

Detachable Yellow Filter [02]	**C-000.32.241**
Polarisation filter P2 for LoupeLight 2 and HR Loupes [03] + [04]	**C-000.32.535**
Spare polarisation filter P2 for HR Loupes (2 pairs) [04]	**C-000.32.536**
Connecting cord SC1 (1,5 m / Ø 2,4 mm) for LoupeLight 2 / mPack mini [05]	**C-000.32.240**
Connecting cord SC2 (1,5 m / Ø 3,2 mm) for LoupeLight 2 / mPack mini [06]	**C-000.32.243**

LoupeLight 2 with Power Source	
for i-View loupe mount (HR / HRP)	
LoupeLight 2 with mPack mini and E4-USB plug-in transformer [07]	**C-008.32.265**
mPack mini Belt Clip [08]	**X-000.99.006**

For further information on the mPack mini, please see pages 133 and 150. Power supplies may deviate in size and shape.

HEINE® LoupeLight 2 Sets

With mPack mini and E4-USB plug-in transformer

LoupeLight 2 Sets with **HR** Binocular Loupes			
Magnification and working distance in mm	HR 2.5x/340	HR 2.5x/420	HR 2.5x/520
HR 2.5 x optics with i-View on S-FRAME and LoupeLight 2 Detachable Yellow Filter mPack mini mPack mini Belt Clip E4-USB plug-in transformer Connecting cord Protective lenses 2 sterilisable levers Retaining cord, cleaning fluid Cleaning cloth, carrying case	C-008.32.450	C-008.32.451	C-008.32.452

LoupeLight 2 Sets with **HRP** Binocular Loupes			
Magnification and working distance in mm	HRP 3.5x/420	HRP 4x/340	HRP 6x/340
HR 2.5 x optics with i-View on S-FRAME and LoupeLight 2 Detachable Yellow Filter mPack mini mPack mini Belt Clip E4-USB plug-in transformer Connecting cord Protective lenses 2 sterilisable levers Retaining cord, cleaning fluid Cleaning cloth, carrying case	C-008.32.453	C-008.32.454	C-008.32.455

Carrying cases and storage cases may deviate in shape and colour.

HEINE Headlights

Technical Data	MicroLight 2	ML4 LED HeadLight	MD 1000 Headlight
Type of Light	LED	LED	F.O.
Light Intensity	**typ. 55,000 Lux**	**typ. 65,000 Lux**	**typ. 35,000 Lux** with HK 7000 Projector
Colour Temperature (Kelvin)	**typ. 4,000 K**	**typ. 4,500 K**	**typ. 3,300 K** with HK 7000 Projector
Spot Size (at 420 mm working distance)	**81 mm**	**30 – 80 mm**	**40 – 150 mm**
Power Sources / Operating Time	mPack mini **typ. 9 hours**	mPack UNPLUGGED **typ. 3.5 hours** mPack **typ. 8.5 hours**	F.O. Projector
Weight	**80 g** with S-FRAME **190 g** with Lightweight Headband	**260 g** **460 g** with mPack UNPLUGGED	**435 g**
Angle of Declination	Fully-adjustable	Fully-adjustable	Fully-adjustable
Brightness Control	**0 – 100 %**	**0 – 100 %**	**0 – 100 %**
Features			
Adjustable Spot Size	––	☐	☐
Waterproof	☐	––	––
Optional Yellow Filter	☐	☐	––
Polarisation Filter	––	☐	––
Expandable with HR and HRP Loupes	––	☐	☐
Optional Video Version	––	☐	––
Head-worn	☐	☐	☐
Spectacle-worn	☐	––	––
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Loupes & Headlights

HEINE® MicroLight 2

Compact LED^HQ Headlight – now even brighter

LED^HQ
LED NOW IN HEINE QUALITY.

:· HEINE has set a new standard which maintains that only the best is good enough, from the selection of materials to processing, from light intensity to dimmability, and from thermal management to a colour rendering index as high as possible.
That's what we call LED in HEINE Quality – or LED^HQ.
:· **Compact and lightweight.** Ensures perfect comfort.
:· **Aluminium Housing.** Exclusive aluminium housing protects the optics against dust and moisture to ensure an extraordinary long lifespan and optimal thermal management.
:· **Coaxial illumination:** Compact coaxial design ensures a completely shadow-free image and allows for excellent illumination of difficult to see areas.
:· **Homogeneity:** An absolutely bright light spot that is uniform from edge-to-edge for the perfect illumination in all examination situations.
:· **Replaceable connecting cord** with high-quality splashproof threaded connector with a length of 1.5 m. Connects the MicroLight 2 with the mPack mini.
:· **Incl. coloured attachment clips for personalisation.** To fixate the cable on the S-FRAME and to identify your headlight.

▶ EXCLUSIVELY AT HEINE
· Compact and Lightweight
· Coaxial Illumination
· Typ. 55,000 Lux

Technical Specification	
Illumination	**Typ. 55 000 Lux**
Colour Temperature	**Typ. 4 000 Kelvin**
LED Operating Life	**Typ. 50 000 hours**
Weight	80 g together with S-FRAME, 190 g together with Lightweight Headband
Angle of Declination	Stepless and individually adjustable for every examination
Operating Time	**Typ. 9 h with mPack mini** (in continuous operation at full power typ. 4 hours)

:· **Precision multiple lens optical system** consisting of four high-quality lenses. Completely homogeneous illumination of the whole field of view, and a clearly defined light spot.
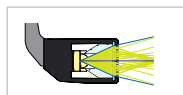
Conventional
System [01]
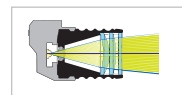
HEINE Precision
4-Lens System [02]

[01]   [02]

Comparison of homogeneity

Mounting Options:

:· HEINE S-FRAME

:· **Maximum comfort** with a modern, ergonomic design.
:· **Malleable temples and nose pad.** Can be customized to fit any face perfectly.
:· **Innovative materials –** Carbon-Kynetium reduces weight (80 g together with MicroLight 2).
:· **Tough polycarbonate protective lenses.**

:· HEINE® Lightweight Headband

:· **Lightweight** (190 g together with MicroLight 2.) Ideal for spectacle wearers.
:· **Fully-adjustable for width to fit any head.**
:· **Hygienic and comfortable leather cushions.**

HEINE® mPack mini

Compact and lightweight power source for LoupeLight 2 / MicroLight 2

:· **Freedom from cables** that tie the user to desk, wall or static power supplies.
:· **Operating time typ. 9 hours.** In continuous operation at full power typ. 4 hours.
:· **Charging time typ. 4 hours.**
:· **Charge status indicator.** Display of remaining battery power with three LEDs. The flashing of the last LED indicates that immediate charging is required. During charging the LEDs light up one after the other.
:· **Stepless light intensity control.** Optimum brightness setting between 100 % and 3 % reduces reflexes.
:· **USB cord** with E4-USB Medical approved plug-in power supply.
:· **The integrated galvanic separation module** protects the battery and the user against the consequences of defective power supplies, thus preventing the possibility of the full mains voltage flowing directly to the housing. We recommend the use of a medical approved plug-in power supply.
:· **Simple cleaning.** Closed housing, no seams at the sides, few edges.
:· **Compact and lightweight.** With a weight of just 95 g and dimensions of 44 x 23 x 101 mm the power source can be easily stowed.
:· **NEW: Optimised mPack mini belt clip** for easy attachment of the power source to the belt or coat pocket. The mPack mini can also be charged in the belt clip [01].
:· **Li-ion technology.** No "memory effect", without worrying about charge level or battery condition.
:· **Integrated rechargeable battery.** Can be exchanged at authorised specialist dealers.

:· **For further information on the mPack mini, please see page 150.**

EXCLUSIVELY AT HEINE
· Operating time typ. 9 hours
· Stepless light intensity control
· Compact and lightweight

NEW|

[01]

HEINE® MicroLight 2

Ordering Information

[01]   [02]

[04]

[03]

[05]

MicroLight 2	
on S-FRAME with mPack mini, mPack mini Belt Clip, E4-USB plug-in transformer with USB cord, connecting cord, retaining cord and cleaning fluid in case [01]	**J-008.31.276**
on Lightweight Headband with mPack mini, mPack mini Belt Clip, E4-USB plug-in transformer with USB cord, connecting cord, in case [02]	**J-008.31.277**

Detachable Yellow Filter [03]	**C-000.32.241**
Connecting cord SC 1 (1,5 m / Ø 2,4 mm) for MicroLight 2 / mPack mini [04]	**C-000.32.240**
Connecting cord SC 2 (1,5 m / Ø 3,2 mm) for MicroLight 2 / mPack mini [05]	**C-000.32.243**

Loupes & Headlights

Carrying cases and storage cases may deviate in shape and colour.

HEINE® ML 4 LED HeadLight

Ultra bright coaxial LED^HQ illumination

LED ^HQ
LED NOW IN HEINE QUALITY.

:· Comfortable and secure fit

:· Adjustable spot size

:· Flexible power source options

:: HEINE has set a new standard which maintains that only the best is good enough, from the selection of materials to processing, from light intensity to dimmability, and from thermal management to a colour rendering index as high as possible.
That's what we call LED in HEINE Quality – or LED^HQ.

:: **Adjustable illumination spot size:** 30 mm to 80 mm spot size range (at 420 mm working distance) to fit any examination situation.

:: **Bright and homogenous illumination.** Absolutely bright light spot that is uniform from edge-to-edge for the perfect illumination in all examination situations.

:: **Stepless light intensity control.** Optimal brightness setting prevents reflexes.

:: **Flexibility.** Flexible Power Source Options: 100 % mobility with a choice of cable-free mPack UNPLUGGED head-worn battery or mPack belt-worn battery pack.

:: **Coaxial illumination.** Coaxial design ensures a completely shadow-free image and allows for excellent illumination of difficult to see areas.

:: **Comfortable and secure fit.** The Professional L headband has multiple adjustment points and soft padding for comfort and stability – even during long examinations.

:: **Optional filters.** Polarisation Filter P 2 improves contrast and yellow filter reduces blue light.

[01] **[02]**

Comparison of homogeneity
[01] Competitor product
[02] HEINE ML 4 LED HeadLight

Technical Specification	
Illumination	**Typ. 65,000 Lux***
Colour Temperature	**Typ. 4,500 Kelvin**
LED Operating Life	**Typ. 50,000 hours**
Spot Adjustment	**30 mm to 80 mm** at **420 mm** working distance
Angle of Declination	Stepless and individually adjustable for every examination
Rheostat	Headband-mounted
Operating Time	**Typ. 8.5 hours** with mPack and **typ. 3.5 hours** with mPack UNPLUGGED of continuous ON time at full power

*Measured at a working distance of 180 mm from the light emission to the object.

Power Options:

:· HEINE® mPack

:: **Portable power pack.** Does not tie the user to desk, wall or static power supplies.

:: **Li-ion technology. Triple capacity** compared with current NiCd systems.
No memory effect, autonomy for typ. 8.5 hours of continuous ON time at full power.

:: **Fast charge.** Charges to full capacity in typ. 2 hours.

:: **Charge status indicator.** Always lets you know how much operating charge you have left.

:: **Brightness control.** Optimal adjustment of light intensity.

:: **Flexible charging options:** EN 50 Desk and wall charger, or plug-in transformer.

:: **Intelligent.** Can be used as mains power supply even while in "charge" mode.

:: **100 – 240 V compatible transformer** incl. 4 plugs for world wide compatibility.

:· HEINE® mPack UNPLUGGED. Headband-mounted rechargeable battery.

:: **Wireless.** 100 % mobility for absolute freedom of movement.

:: **Rechargeable battery integrated on the headband.**

:: **Lightweight with balanced weight distribution.** High level of comfort.

:: **Charge status indicator** indicates remaining operating time.

:: **Intelligent.** Can be used as mains power supply even in "charge" mode.

:: **Fast charge.** Charges to full capacity in typ. 2 hours. Operating time typ. 3.5 hours of continuous ON time at full power.

:: **Top safety standards.** Integrated charge and performance checks during operation. Lithium polymer technology. UL compliant.

HEINE® ML 4 LED HeadLight

Ordering Information

LED HQ
LED NOW IN HEINE QUALITY.

[01]

[02]

[03]

[04]

[05]

ML 4 LED HeadLight with Headband Professional L and Power Sources	
ML 4 LED HeadLight without power source [01]	**J-008.31.410**
ML 4 LED HeadLight with plug-in transformer [01] + [02]	**J-008.31.411**
ML 4 LED HeadLight with mPack and plug-in transformer [01] + [03]	**J-008.31.413**
ML 4 LED HeadLight with mPack UNPLUGGED and plug-in transformer UNPLUGGED [01] + [04]	**J-008.31.415**
ML 4 LED HeadLight with wall mounted EN 50 UNPLUGGED Charger and 2 x mPack UNPLUGGED [01] + [05]	**J-008.31.416**

Power supplies may deviate in size and shape.

[06]

[07]

[08]

[09]

| ML 4 LED HeadLight accessories	
Detachable Yellow Filter [06]	**J-000.31.321**
Extension cord from plug-in transformer UNPLUGGED to mPack UNPLUGGED, 2 m [07]	**X-000.99.668**
Polarisation Filter P 2 for ML 4 LED and HR Loupes [08] + [09]	**J-000.31.326**
Spare Polarisation Filter P 2 for HR Loupes (2 pairs) [09]	**C-000.32.536**

HEINE® ML 4 LED HeadLight with HR / HRP Optics

LED HQ
LED NOW IN HEINE QUALITY.

The ML 4 LED HeadLight is optionally supplied with HR / HRP Binocular Loupes incl. i-View loupe mount and with or without S-GUARD. The binocular loupe is fully adjustable for every examiner and for every examination axis.

:∙ **HEINE S-GUARD:** Rapid and simple symmetric adjustment of binocular loupes with splash protection by protective lenses.

:∙ **HEINE i-View for ML 4 LED HeadLight:** Provides any angle of view and flips up the optics independently of the illumination beam.
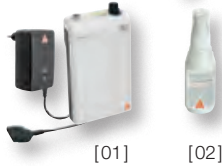
[01]   [02]

ML 4 LED HeadLight Kits **with** S-GUARD and Power Source

The following Kits contain: ML 4 LED HeadLight on Professional L headband, HR / HRP optics with i-View and S-GUARD, mPack and plug-in transformer [01], Cleaning Fluid [02]

Kit 1:	with **HR** Binocular Loupe	2.5 x / 340 mm	**J-008.31.440**
Kit 2:	with HR Binocular Loupe	2.5 x / 420 mm	**J-008.31.441**
Kit 11:	with HR Binocular Loupe	2.5 x / 520 mm	**J-008.31.450**
Kit 3:	with **HRP** Binocular Loupe	3.5 x / 420 mm	**J-008.31.442**
Kit 4:	with HRP Binocular Loupe	4 x / 340 mm	**J-008.31.443**
Kit 5:	with HRP Binocular Loupe	6 x / 340 mm	**J-008.31.444**

[01]

ML 4 LED HeadLight Kits with Power Source **without** S-GUARD

The following Kits contain: ML 4 LED HeadLight on Professional L headband, HR / HRP optics with i-View, mPack and plug-in transformer [01]

Kit 1c:	with **HR** Binocular Loupe	2.5 x / 340 mm	**J-008.31.452**
Kit 2c:	with HR Binocular Loupe	2.5 x / 420 mm	**J-008.31.453**
Kit 11c:	with HR Binocular Loupe	2.5 x / 520 mm	**J-008.31.463**
Kit 3c:	with **HRP** Binocular Loupe	3.5 x / 420 mm	**J-008.31.454**
Kit 4c:	with HRP Binocular Loupe	4 x / 340 mm	**J-008.31.456**
Kit 5c:	with HRP Binocular Loupe	6 x / 340 mm	**J-008.31.457**

ML 4 LED HeadLight UNPLUGGED Kits **with** S-GUARD and Power Source

The following Kits contain: ML 4 LED HeadLight on Professional L headband, HR / HRP optics with i-View and S-GUARD, Wall Transformer EN 50 UNPLUGGED [03], 2 x mPack UNPLUGGED, Cleaning Fluid [02]

Kit 6:	with **HR** Binocular Loupe	2.5 x / 340 mm	**J-008.31.445**
Kit 7:	with HR Binocular Loupe	2.5 x / 420 mm	**J-008.31.446**
Kit 12:	with HR Binocular Loupe	2.5 x / 520 mm	**J-008.31.451**
Kit 8:	with **HRP** Binocular Loupe	3.5 x / 420 mm	**J-008.31.447**
Kit 9:	with HRP Binocular Loupe	4 x / 340 mm	**J-008.31.448**
Kit 10:	with HRP Binocular Loupe	6 x / 340 mm	**J-008.31.449**

[03]   [02]

ML 4 LED HeadLight UNPLUGGED Kits with Power Source **without** S-GUARD

The following Kits contain: ML 4 LED HeadLight on Professional L headband, HR / HRP optics with i-View, Wall Transformer EN 50 UNPLUGGED [03], 2 x mPack UNPLUGGED

Kit 6c:	with **HR** Binocular Loupe	2.5 x / 340 mm	**J-008.31.458**
Kit 7c:	with HR Binocular Loupe	2.5 x / 420 mm	**J-008.31.459**
Kit 12c:	with HR Binocular Loupe	2.5 x / 520 mm	**J-008.31.464**
Kit 8c:	with **HRP** Binocular Loupe	3.5 x / 420 mm	**J-008.31.460**
Kit 9c:	with HRP Binocular Loupe	4 x / 340 mm	**J-008.31.461**
Kit 10c:	with HRP Binocular Loupe	6 x / 340 mm	**J-008.31.462**

[03]

HR / HRP Binocular Loupes – Retrofitting Sets

For HEINE ML 4 LED HeadLight

Pos. 1

[01]

Pos. 2

[02]

Retrofitting Set HR / HRP Binocular Loupes for ML 4 LED HeadLight		
The sets enable you to equip your existing ML 4 LED HeadLight with a binocular loupe. The set contains HR/HRP optics with i-View, S-GUARD splash protection and cleaning fluid [01]		
with **HR** Binocular Loupe	2.5 x / 340 mm	**J-000.31.370**
with HR Binocular Loupe	2.5 x / 420 mm	**J-000.31.371**
with HR Binocular Loupe	2.5 x / 520 mm	**J-000.31.365**
with **HRP** Binocular Loupe	3.5 x / 420 mm	**J-000.31.372**
with HRP Binocular Loupe	4 x / 340 mm	**J-000.31.373**
with HRP Binocular Loupe	6 x / 340 mm	**J-000.31.374**
5 Sterilisable Swivel Levers for i-View loupe mount for ML 4 LED HeadLight [02]		**C-000.32.399**

Power Sources

[01]

[02]

[03]

mPack and plug-in transformer [01]	**X-007.99.672**
Plug-in transformer for ML 4 LED HeadLight [02]	**X-095.16.330**
mPack with EN 50 Table / Wall Unit (incl. 90° Angled Adaptor, instrument support for Professional L Headband) [03]	**X-095.17.302**

Power supplies may deviate in size and shape

Loupes & Headlights

HEINE® MD 1000 Fiber Optic (F.O.) Headlight

:‣ **Compact, high-tech optics** for homogeneous, coaxial, exceptionally-bright illumination.
:‣ **Ultra-light, highly-flexible fiber optic cable** with gown clips, length 3 m.
:‣ **Height and angle of illumination adjustable by a single control.**
:‣ **Lightweight, flexible Headband Professional L:** Adjustable for height and width with detachable soft leather forehead cushion.
:‣ **Adjustable light spot** with sterilizable lever.
:‣ **Can be combined with HEINE HR and HRP Binocular Loupes** for magnification from 2.5 x – 6 x.
:‣ **Can be fitted with a CCD camera.**
:‣ **Light source: HK 7000 F.O. Projector*.**

Technical Specification

Illumination	**Typ. 35,000 Lux** with HK 7000 F.O. Projector at a working distance of 250 mm
Colour Temperature	**Typ. 3,300 Kelvin** with HK 7000 F.O. Projector
Light Source	HK 7000 F.O. Projector
Spot Adjustment	Adjustable spot size from **20 mm to 70 mm** at a distance of 200 mm and **45 mm to 180 mm** at a distance of 500 mm
Angle of Declination	Individually-adjustable
Brightness control	Stepless light intensity control on Light Source

MD 1000 F.O. Headlight

with Headband Professional L*	**J-003.31.231**

HEINE® MD 1000 F.O. Headlight with HR / HRP Optics

The MD 1000 is optionally supplied with HR / HRP Binocular Loupes including i-View loupe mount and S-GUARD. The binocular loupe is fully-adjustable for every examiner and for every examination axis.

:‣ **HEINE S-GUARD:** Rapid and simple symmetric adjustment of binocular loupes with splash protection by protective lenses.

:‣ **HEINE i-View:** Provides any angle of view and flips up the optics independently of the illumination beam.

MD 1000 F.O. Headlight with HR / HRP Binocular Loupes

The following order numbers include: MD 1000 F.O. Headlight, HR / HRP optics with i-View and S-GUARD, Cleaning Fluid*

Kit 1: with **HR** Binocular Loupe 2.5 x / 340 mm	**J-003.31.245**
Kit 2: with HR Binocular Loupe 2.5 x / 420 mm	**J-003.31.246**
Kit 3: with **HRP** Binocular Loupe 3.5 x / 420 mm	**J-003.31.247**
Kit 4: with HRP Binocular Loupe 4 x / 340 mm	**J-003.31.248**
Kit 5: with HRP Binocular Loupe 6 x / 340 mm	**J-003.31.249**

5 Sterilisable Swivel Levers for i-View loupe mount	**C-000.32.399**

*Light Source: HK 7000 F.O. Projector. Please order separately, see pages 160.

Original handles. Original power sources. Original bulbs. 100 % HEINE.

HEINE

HEINE BETA® 4 Handle Range – Next-generation energy management

:• **One handle for all applications:** A well thought out range combines everybody's needs and all technologies.
  Choice of power sources from basic alkaline batteries up to latest Li-ion technology.

:• **4 handle options:**   – BETA drycell handle
                                – **BETA 4 USB rechargeable handle** with USB cord and medical approved plug-in power supply
                                – **BETA 4 NT** and **BETA 4 SLIM NT rechargeable handle** for NT 4 Table Charger

:• **Compatibility during your entire career.** The BETA 4 Rechargeable Handles are compatible with all 3.5 V XHL and LED
  HEINE instruments.

:• **Complete freedom of choice:** One basic handle for any situation. Decide between dry-cell or rechargeable; enhanced mobility
  with USB charging or convenient desk charging in the HEINE NT 4 Table Charger.

HEINE BETA® Handle Module

The handle module X-000.99.010, 145 mm x 30 mm dia., is the basis of every
BETA handle. By adding the appropriate bottom inserts it is possible to assemble
any of the handles shown on this page. A BETA battery handle can also be
converted to a rechargeable handle in this way.
All BETA handles feature short-circuit protection and a continuous ceramic
brightness control.

BETA handle module	X-000.99.010

HEINE BETA® Battery Handle

BETA Battery Handle	2.5 V
BETA battery handle (batteries not included; appropriate batteries: IEC LR14)	X-001.99.118
BETA Bottom insert	X-000.99.119
BETA Belt Clip	X-000.99.008

HEINE BETA® SLIM Battery Handle

Dimensions: 135 mm x 19 mm dia. Weight: 180 g.

A compact handle with automatic connector for those who prefer a slim handle.
Batteries not included.

BETA SLIM battery handle	2.5 V
for 2 alkali-manganese batteries, size AA	X-001.99.105

HEINE BETA® 4 Rechargeable Handles

Next-generation energy management

:· **High-quality metal construction** for strength and durability.
:· **Exclusive Automatic Connector with locking design.** No metal on metal friction which can wear out over time, for a secure fit for the lifetime of your instruments.
:· **Deep Battery Discharge Protection:** Integrated safety system protects your investment by preventing batteries from completely draining; thus ensuring maximum battery life.
:· **Familiar brigthness control:** Rheostat for continuous brightness control with power level indicator.
:· **Li-ion technology:** no "memory effect". Charge your handle how you like without worrying about charge level or battery condition.
:· **Extended ON time:** work typ. 6 weeks between recharging with LED instruments.
:· **Quick charge.**
:· Slightly knurled finish of the handle provides a **non-slip grip but is easy to clean and disinfect.**
:· **Charge Status Indicator** in the bottom insert: the indicator shines orange if the battery needs to be recharged. In the BETA 4 USB Handle the indicator blinks green during the charging process and shines permanently green as soon as it is fully charged.

EXCLUSIVELY AT HEINE
· Exclusive Automatic Connector
· Li-ion technology
· Charge Status Indicator
· USB – flexible and convenient charging option

BETA 4 NT rechargeable handle for NT 4 table charger

:· **Ready-to-use Function.** Handles switch ON & OFF automatically when placed into charger. Set your desired brightness level once and it stays there every time you use your instrument. Also prevents battery damage and premature bulb burn outs if the instruments are accidentally left on.

	3.5 V Li-ion
Rechargeable handle complete with Li-ion rechargeable battery and BETA 4 NT bottom insert	X-007.99.396
BETA 4 NT bottom insert	X-002.99.394
Li-ion rechargeable battery for BETA 4 rechargeable handle	X-007.99.383
BETA Belt Clip [01]	X-000.99.008

[01]

BETA 4 USB Li-ion rechargeable handle

:· **Maximum safety.** You can charge your HEINE BETA 4 USB handle with any USB plug or other USB power source, with absolute peace of mind. The BETA 4 USB handle has an integrated, exclusive Galvanic Separation Module that protects the handle, and the user, even if a faulty or inferior plug is used; thus preventing the possibility of the full mains voltage flowing directly to the handle. We do however recommend the use of a medical approved plug-in power supply.

	3.5 V Li-ion
Rechargeable handle complete with Li-ion rechargeable battery, BETA 4 USB bottom insert, USB cord with medical approved plug-in power supply and handle rest	X-007.99.388
Rechargeable handle complete with Li-ion rechargeable battery and BETA 4 USB bottom insert (without additional accessories)	X-007.99.387
Li-ion rechargeable battery for BETA 4 rechargeable handle	X-007.99.383
BETA 4 USB bottom insert	X-002.99.395
USB Cord [01] with E4-USB plug-in power supply [02]	X-000.99.303
E4-USB Medical approved plug-in power supply [02]	X-000.99.305
BETA Belt Clip	X-000.99.008

[02]
[01]

Power supplies may deviate in size and shape.

Light &
Power Sources

HEINE BETA® 4 SLIM NT Rechargeable Handle

Dimensions: 135 mm x 19 mm dia. Weight: 180 g.

A compact handle with automatic connector for those who prefer a slim handle. Rechargeable in NT 4 table charger fitted with the small adaptor ring.

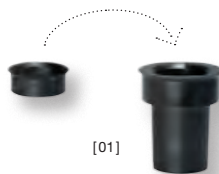| BETA 4 SLIM NT rechargeable handle	3.5 V Li-ion
Rechargeable handle complete with rechargeable battery M3Z 4 NT Li-ion and BETA 4 SLIM NT bottom insert	X-007.99.474
BETA 4 SLIM NT bottom insert	X-000.99.110
Rechargeable battery M3Z 4 NT Li-ion	X-007.99.380

HEINE® NT 4 Table Charger

Dimensions: Width 142 mm, Height 61 mm, Depth 66 mm.
With the appropriate adaptor set all BETA 4 NT and BETA 4 SLIM NT rechargeable handles can be charged in the NT 4 table charger. The same applies to all Standard F.O. 4 NT, F.O. 4 SLIM NT and F.O. 4 SHORT NT laryngoscope rechargeable handles.

:· **Innovative, compact design.** Practical and space-saving.
:· **Two independent charging wells.** Complete functionality for one or two handles at a time.
:· **Automatic charging.** Independent of the state of charge of the rechargeable battery. Guarantees extended battery life.
:· **Cannot be overcharged.** Charger switches off automatically when the battery is fully charged.
:· **Charge status indicator.** Light pulses from the charging well to confirm the charging mode. Continuous light indicates that the charging process has been completed.

NT 4 table charger	
without handle, with adaptor. For BETA 4 NT rechargeable handles, Standard F.O. 4 NT and F.O. 4 SHORT NT laryngoscope rechargeable handles. BETA 4 SLIM NT rechargeable handles and F.O. 4 SLIM NT laryngoscope rechargeable handles (Adaptor set required X-000.99.086).	X-002.99.494
Adaptor set (two pieces) for BETA 4 SLIM NT rechargeable handles and F.O. 4 SLIM NT laryngoscope rechargeable handles [01]	X-000.99.086

[01]

230 V is the standard mains voltage. If a different voltage is required, e. g. 120 V, please specify when ordering.

HEINE BETA® Rechargeable Handles

Handle Range for NT 300 Table Charger

PLEASE NOTE:
All the rechargeable handles shown here are only compatible with the systems
of the previous generation and the NT 300 table charger. Not suitable for
BETA 4 rechargeable handles.

BETA L Li-ion rechargeable handle	3.5 V Li-ion L
Rechargeable handle complete with Li-ion rechargeable battery and bottom insert	X-007.99.395
BETA L Bottom insert with charge status indicator	X-002.99.396
Li-ion rechargeable battery for BETA L rechargeable handle	X-007.99.383

BETA NT NiMH rechargeable handle	3.5 V NiMH
Rechargeable handle complete with NiMH rechargeable battery and bottom insert	X-002.99.411
BETA NT Bottom insert	X-002.99.412
NiMH rechargeable battery for BETA NT rechargeable handle	X-002.99.382

BETA SLIM NiMH rechargeable handle	3.5 V NiMH
135 mm x 19 mm Ø, rechargeable handle with NiMH rechargeable battery and bottom insert	X-002.99.471
NiMH rechargeable battery for BETA SLIM rechargeable handle	X-002.99.106

NT 300 table charger	
for BETA handles and Laryngoscope handles Angled F.O., Standard F.O., Small and Short F.O. (without handle, with adaptor)	X-002.99.495
Adapter set (two pieces) for BETA SLIM and Small F.O. Laryngoscope Rechargeable Handles [01]	X-000.99.086

*Due to the increased demands on the charging management function of these rechargeable batteries, a latest generation HEINE NT 300 recharging station must be used to properly and fully recharge these rechargeable batteries. Latest generation HEINE NT 300 recharging stations can be identified by the serial number on the underside of the recharging station. Recharging stations starting with the serial number **SN 101 1**000 001 are compatible.

HEINE Large Battery Handle

Dimensions: 165 mm x 37 mm dia. Weight: 212 g without batteries, 505 g with batteries.

A large handle for 2 alkali-manganese batteries IEC LR20/D cells.
Designed for countries where larger batteries are still preferred.
(Only suitable for certain instrument cases.) Batteries not included.

Large battery handle	2.5 V
for 2 alkali-manganese batteries, size D	X-001.99.120

HEINE mini 3000® Battery Handle

Innovative, compact battery handle in a high-quality, modern design.
Suitable for all mini 3000 instruments.

:· **Oval, compact, stylish shape.** Lies ergonomically in the hand.
:· **High-quality handle: Chrome-finish upper section / refined plastic.** Shockproof, sturdy, non-slip.
:· **Attachment clip with integrated on / off switch.** Secure. Switches off automatically when returned to the pocket. 20.000 switch cycles guaranteed.
:· **Screw-on end cap.** For easy battery change.
:· **Threaded connector made of metal.** Prevents wear.
:· **Replaceable batteries.** Size AA, or optional rechargeable battery with mini NT table charger.
:· **Complete range of mini 3000 instruments.** Versatile range.
:· **Registered Design.**
:· **Rechargeable mini 3000 handle.** The mini 3000 battery handle can be retro-fitted with the mini rechargeable battery 2.5 V NiMH and the bottom insert to update to the mini 3000 rechargeable handle. Fully-automatic charging with the mini NT table charger.

mini 3000 Battery Handle	2.5 V
with two dry batteries IEC LR6 (AA size)	D-001.79.021

All non-rechargeable mini handles are fitted with batteries (IEC LR 6 AA size). mini 3000 handles can be supplied in black or blue. Please specify the colour you prefer when ordering. If not otherwise specified, we will supply black instruments.

HEINE® mini NT Charger Set for mini 3000®

Compact charging technology

mini NT Charger set 2.5 V. Consists of the mini NT table charger, 2 mini NT rechargeable batteries and 2 bottom inserts for the mini 3000 rechargeable handles. With this set, existing mini 3000 handles can be updated to the 2.5 V rechargeable system. Optional adaptor set for mini 2000.
mini NT table charger: Width 112 mm, Height 50 mm, Depth 52 mm, Weight 270 g.

:· **Innovative, compact design.** Practical and space-saving.
:· **Two independent charging wells.** Complete functionality for one or two handles at a time.
:· **Fast charge feature.** Typ. 4 hours to recharge a mini 3000 NiMH 2.5 V rechargeable battery.
:· **Automatic charging.** Independent of the state of charge of the rechargeable battery. Guarantees extended battery life.
:· **Cannot be overcharged.** Charger switches off automatically when the battery is fully charged.
:· **Charge status indicator.** Light pulses from the charging well to confirm the charging mode. Continuous light indicates that the charging process has been completed.
:· **No memory effect.** Full power at any time without loss of capacity.

Please note: Suitable only for mini 3000 2.5 V NiMH rechargeable battery.

:· **Fast charge capability**

:· **Automatic charging**

:· **Charge indicator**

mini NT table charger and accessories	
mini NT Charger, only [01]	**X-001.99.484**
mini 3000 Rechargeable handle complete* [02]	**D-001.79.022**
Rechargeable battery NiMH 2Z, only [03]	**X-001.99.487**
Bottom insert for mini 3000 Rechargeable Handle, only [04]	**X-001.99.488**

[01]   [02]   [03]   [04]

mini NT Adaptor Set for 1 mini 2000 Handle	
This set contains:	
1 bottom insert [01] and 1 adaptor for mini 2000 [02]. Together with a rechargeable battery it will allow the upgrade of one existing mini 2000 handle.	**X-001.99.493**

[01]   [02]

mini NT Charger Set for 2 mini 3000 Handles	
With this set, existing mini 3000 Handles can be updated to the 2.5 V rechargeable system. It contains:	
mini NT table charger [01], 2 rechargeable batteries NiMH 2Z [02], 2 bottom inserts for mini 3000 rechargeable handle [03]	**X-001.99.485**

[01]   [02]   [03]

*HEINE mini 3000 pocket instruments – a complete range of quality diagnostic instruments for your pocket. Available in black or blue. Please specify the colour you prefer when ordering. If not otherwise specified, we will supply black instruments.

Plug-in transformer for the HEINE® ML 4 LED / OMEGA® 500

Powerful electric supply unit for the ML 4 LED HeadLight / OMEGA 500
(System voltage 6 V).

Plug-in transformer for ML 4 LED HeadLight / OMEGA 500	**X-095.16.330**

HEINE® HC 50 L Headband Rheostat

Fingertip Illumination Control for OMEGA 500 / UNPLUGGED

:- **Left or right sided Mounting Options** on the OMEGA Headband.
:- **Can be combined with EN 50 and mPack** (with connection cord X-000.99.667).
:- **100 – 240 V Compatible Transformer.**
:- **For use with OMEGA 500 with XHL and LED**HQ **illumination.**

[01]

[02]

[03]

HC 50 L Headband Rheostat	6 V
HC 50 L Headband Rheostat (without plug-in transformer and connecting cord) [01]	**X-095.16.325**

Plug-in transformer for HC 50 L Headband Rheostat [02]	**X-095.16.330**
Connecting Cord Cinch to EN 50 charger / mPack / plug-in transformer for HC 50 L, 1,6 m [03]	**X-000.99.667**

Power supplies may deviate in size and shape.
230 V is the standard mains voltage. If a different voltage is required, e. g. 120 V, please specify when ordering.

Wall Transformer HEINE® EN 50 UNPLUGGED

Intelligent charger for mPack UNPLUGGED

:‣ **Charger and wall-mount in one.** The wall transformer serves as an instrument holder and a charger at the same time.
:‣ **Intelligent charging system.** The instrument automatically switches off and goes into charging mode when placed in wall transformer. It is impossible to overcharge the mPack UNPLUGGED; the process ends automatically when charging is completed.
:‣ **Simultaneous charging.** The charging system charges the battery on the headband as well as an additional single spare battery.
:‣ **Compatible transformer (100 – 240 V).** Multi-voltage power supply unit incl. 4 different mains adaptors.
:‣ **Registered Design.**

Wall transformer EN 50 UNPLUGGED (without mPack UNPLUGGED) 6 V	**X-095.17.310**

:‣ Charger and wall-mount in one

:‣ Intelligent charging system

HEINE® mPack UNPLUGGED

Headband-mounted rechargeable battery

Rechargeable battery for OMEGA 500 Indirect Binocular Ophthalmoscope UNPLUGGED and ML 4 LED HeadLight UNPLUGGED (System voltage 6 V).

:‣ **Lightweight with balanced weight distribution.** High level of comfort.
:‣ **Charge status indicator.** Display of remaining operating time.
:‣ Can be recharged by **wall- or plug-in transformer.**
:‣ **Direct operation possible while charging** through the use of the mobile plug-in transformer.
:‣ **Charging time:** typ. 2 hours.
:‣ **Operating time:** typ. 3.5 hours for ML 4 LED HeadLight, typ. 2 hours for OMEGA 500 UNPLUGGED, typ. 8 hours for OMEGA 500 UNPLUGGED with LED.
:‣ **Intelligent charging system.** Automatic changeover from operating to charging mode (in the wall unit).
:‣ **Top safety standards.** Integrated charge and performance checks during operation. Lithium polymer technology. UL-compliant.
:‣ **Registered Design.**

:‣ Headband battery (rechargeable)

:‣ LED charge status indicator

[01]

LI POL

[02]

mPack UNPLUGGED	
mPack UNPLUGGED	**X-007.99.665**
Transformer UNPLUGGED for mPack UNPLUGGED [01]	**X-095.16.316**
Lithium-Polymer rechargeable battery for mPack UNPLUGGED	**X-007.99.680**
Extension Cord from plug-in transformer UNPLUGGED to mPack UNPLUGGED, 2 m [02]	**X-000.99.668**

HEINE® mPack

Portable Power Pack for OMEGA 500 and ML 4 HeadLight

:· **Freedom from cables** that tie the user to desk, wall or static power supplies.
:· **Triple the Capacity with Li-ion Technology.** Compared with current NiCd systems. When fully charged at least 3 x the capacity of conventional NiCd systems. More than double of other Li-ion systems. No memory effect.
:· **Fast Charge.** Charges to full capacity in typ. 2 hours.
:· **Charge status indicator.** Always lets you know how much operating charge you have left.
:· **Operating time:** typ. 8.5 hours for ML 4 LED HeadLight, typ. 4 hours for OMEGA 500, typ. 13 hours for OMEGA 500 with LED.
:· **Flexible Charging Options.** Charge in the EN 50 Charger base station, or with mobile plug-in transformer.
:· **Intelligent.** Automatically switches to "charge" mode when inserted in EN 50. Can also be used as mains power supply even while in "charge" mode.
:· **Automatic remote power adjustment** for compatibility with all HEINE 6 V and selected LED instruments.
:· **Stepless light intensity control 0.5 – 100 %.** Optimum brightness setting prevents reflexes.
:· **100 – 240 V Compatible Transformer** incl. 4 plugs for world wide compatibility.

:· Li-ion Battery

:· Battery Capacity Indicator

:· Fast Charge

[01]

[02]

[03]

mPack	6 V
EN 50-m Charger Wall / Table Unit with **mPack**, (incl. 90° Angled Adaptor, Instrument support for Professional L Headband [01])	X-095.17.302
mPack with Li-ion rechargeable battery and plug-in transformer	X-007.99.672
mPack with Li-ion rechargeable battery, without transformer	X-007.99.671

Li-ion rechargeable battery for mPack	X-007.99.676
Plug-in transformer for mPack [02]	X-095.16.315
Plug-in 90° Angled Adaptor (for EN 50 Charger / mPack) [03]	C-000.33.509

Power supplies may deviate in size and shape.

Wall- / Table-Transformer HEINE® EN 50

Modular Power Supply System / charger

The HEINE Modular Power Supply System offers unsurpassed flexibility and innovative features. The EN 50 powers OMEGA 500 and ML 4 LED HeadLight. Furthermore, all other HEINE 6 V products are compatibel. The EN 50 Charger, the mPack and HC 50 L Headband Mounted Rheostat can be combined in every conceivable configuration.

:· **Modular, compact design** functions as the base for Tabletop or Wall Mounted use and as charging base for the mPack mobile charging system.
:· **Upgradeable.** mPack Charging base by simple removal of the control module.
:· **Soft Start Technology.** A gradual introduction of current reduces bulb "shock" and extends bulb life.
:· **100 – 240 V Compatible Transformer** incl. 4 plugs for world wide compatibility.
:· **Registered Design.**

:· Modular Power Supply System

:· Soft Start Technology

:· Switches off automatically

EN 50 Charger	6V
EN 50 Transformer table / wall unit with Rheostat Control Module (incl. 90° Angled Adaptor, Extension Cord Cinch-Cinch 2 m, Instrument support) [01]	**X-095.17.301**
Rheostat Control Module for EN 50 [02]	**X-095.17.305**
EN 50 Base unit (without Rheostat Control Module) [03]	**X-095.17.300**

Plug-in 90° Angled Adaptor (for EN 50 / mPack without instrument support) [04]	**C-000.33.509**
Instrument support for Headband	**C-000.33.511**

[02]

[04]

[01]

[03]

HEINE® mPack mini

Power source for LoupeLight 2 / MicroLight 2 and SIGMA 250

:- **Freedom from cables** that tie the user to desk, wall or static power supplies.
:- **Operating time LoupeLight 2 / MicroLight 2:** Typ. 9 hours in everyday practical use. In continuous operation at full power typ. 4 hours.
  Operating time SIGMA 250: Typ. 11 hours in continuous operation at maximum power.
:- **Charging time typ. 4 hours.**
:- **Charge status indicator.** Display of remaining battery power with three LEDs. The flashing of the last LED indicates that immediate charging is required. During charging the LEDs light up one after the other.
:- **Stepless light intensity control.** Optimum brightness setting between 100 % and 3 % reduces reflexes.
:- **USB cord** with E4-USB Medical approved plug-in power supply.
:- **The integrated galvanic separation module** protects the battery and the user against the consequences of defective power supplies, thus preventing the possibility of the full mains voltage flowing directly to the housing. We recommend the use of a medical approved plug-in power supply.
:- **Simple cleaning.** Closed housing, no seams at the sides, few edges.
:- **Compact and lightweight.** With a weight of just 95 g and dimensions of 44 x 23 x 101 mm the power source can be easily stowed.
:- **NEW: Optimised mPack mini belt clip** for simple attachment of the power source to the belt or waistband. The mPack mini can also be charged in the belt clip [01].
:- **Li-ion technology.** No „memory effect", without worrying about charge level or battery condition.
:- **Integrated rechargeable battery.** Can be exchanged at authorised specialist dealers.

EXCLUSIVELY AT HEINE
· Stepless light intensity control
· Compact and lightweight
· Simple cleaning

NEW

[01]

[02]

[03]

[04]

mPack mini	6 V
mPack mini with Li-ion rechargeable battery and E4-USB plug-in transformer	X-007.99.650
mPack mini with Li-ion rechargeable battery, without E4-USB plug-in transformer	X-007.99.649

mPack mini Belt Clip [01]	X-000.99.006
USB cord [02] with E4-USB plug-in transformer [03]	X-000.99.303
E4-USB Medical approved plug-in power supply for USB cord [03]	X-000.99.305

Power supplies may deviate in size and shape.

HEINE® EN 200 Diagnostic Centre

Modern, energy efficient wall system

:· **Excellent energy efficiency.** Lower power consumption saves costs and is environmentally-friendly.

:· **Simultaneous use of handles.** The handles can be operated optimally with LED and / or XHL instruments. Due to the galvanic separation, two doctors can use the devices for examination purposes independently of each other.

:· **Multiple diagnostic possibilities.** Compatible with all HEINE instruments (LED or XHL) with AV connector.

:· **Maximum safety for user and patient.** The integrated galvanic separation protects the handles from unwanted electrical interaction.

:· **Optimal cleaning.** Flat, space-saving housing without any openings allows optimal hygienic reprocessing. The absence of a mechanical switch reduces the risk of cross-contamination.

:· **Ready-to-use Function.** Due to cutting-edge technology in the HEINE EN 200 the handle switches on and off automatically when taken off or returned to the unit. Set your brightness level once and it stays there every time you use your instrument. When not in use or when not returned to the unit, the illumination switches off after 15 minutes.

:· **Connectivity Ready.** The device offers an USB port and can be expanded with HEINE modules such as the HEINE EN 200 BP Automatic Digital Sphygmomanometer.

:· **Soft Start Technology** protects bulbs in the critical switch-on phase (prevents current surge) and prolongs bulb life.

:· **Continuous brightness control** between 100 % and 3 % for both XHL and LED illumination.

:· **Integrated anti-theft system** by means of a locking screw prevents unauthorised instrument head removal.

EXCLUSIVELY AT HEINE
· Excellent energy efficiency
· Optimal cleaning
· Expandable via USB interface

HEINE EN 200 Diagnostic Centre Set

with GAMMA XXL LF-WB Analogue Sphygmomanometer

EN 200 Diagnostic Centre with GAMMA XXL LF-WB	
GAMMA XXL LF-WB Analogue Sphygmomanometer Cuff Basket EN 200 Wall Transformer BETA 400 LED F.O. Otoscope BETA 200 LED Ophthalmoscope AllSpec Tip Dispenser Wallboard (mounting material included)	**A-095.12.950**
See above, but with BETA 200 LED F.O. Otoscope	**A-095.12.951**

230 V is the standard mains voltage. If a different voltage is required, e. g. 120 V, please specify when ordering.

Light &
Power Sources

HEINE® EN 200 Diagnostic Centre Kits

[01]

EN 200 Kits *	3.5 V
with EN 200 Wall Transformer, **BETA 400 LED F.O. Otoscope,** **BETA 200 LED Ophthalmoscope** [01]	LED A-095.12.218
with EN 200 Wall Transformer, **BETA 400 F.O. Otoscope,** **BETA 200 Ophthalmoscope**	XHL A-095.12.214
with EN 200 Wall Transformer, **BETA 200 LED F.O. Otoscope,** **BETA 200 LED Ophthalmoscope**	LED A-095.12.219
with EN 200 Wall Transformer, **BETA 200 F.O. Otoscope,** **BETA 200 Ophthalmoscope**	XHL A-095.12.215
with EN 200 Wall Transformer, **K 180 F.O. Otoscope,** **K 180 Ophthalmoscope**	XHL A-095.12.220

* without additional accessories

230 V is the standard mains voltage. If a different voltage is required, e. g. 120 V, please specify when ordering.

HEINE® EN 200 Diagnostic Centre – individual

[01]

[02]

[03]

[04]

[06]

NEW

[05]

Put together your individual Diagnostic Centre: The EN 200 Wall Transformer and additional components such as the AllSpec Tip Dispenser and the EN 200 BP Automatic Digital Sphygmomanometer can be combined in a modular system. You can also select the instruments you need (3.5 V XHL or LED version) individually from the HEINE range and customise your Diagnostic Centre to meet your individual requirements.

EN 200 Wall Transformer* [01]	X-095.12.250
AllSpec Tip Dispenser, for EN 200 [02]	B-000.11.149
EN 200 BP Automatic Digital Sphygmomanometer [03]	M-000.09.201
GAMMA XXL LF-W Analogue Sphygmomanometer [04]	M-000.09.323
NEW: GAMMA XXL LF-WB Analogue Sphygmomanometer (without cuff-holder) [05]	M-000.09.327
Cuff Basket for storing blood pressure cuffs [06]	M-000.09.140
Wallboard for simple wall mounting made of satined acrylic glass 50 x 75 x 0.8 cm, 3.8 kg, with pre-drilled holes, mounting material included for device combination EN 200 BP / Cuff Basket / EN 200 / Tip Dispenser [07]	X-095.12.005
Wallboard as above for device combination EN 200 / Tip Dispenser [08]	X-095.12.006
Wallboard as above for device combination GAMMA XXL LF-W / EN 200 / Tip Dispenser [09]	X-095.12.007
Wallboard as above for device combination GAMMA XXL LF-WB / Cuff Basket / EN 200 / Tip Dispenser [10]	X-095.12.008

* without instruments

[07]

[08]

[09]

[10]

Light & Power Sources

For further information on HEINE Sphygmomanometers and blood pressure cuffs, please refer to pages 100 – 105.

Each HEINE bulb is specifically designed as an integral part of the HEINE instrument it powers, based upon the following parameters:

Colour Temperature:

Based on advanced HEINE XHL® Xenon Halogen Technology, each bulb is designed to provide the ideal colour temperature for the diagnosis the instrument is intended for. This ensures a proper balance between illumination brightness and true tissue colour for the most accurate diagnosis.

Bulb Life:

HEINE bulbs last up to 50 % longer compared with conventional bulbs, providing long life, optimum performance and cost-effectiveness.

Safety:

Advanced design and manufacturing procedures prevent dangerous bulb implosions.

Optical Performance:

The performance of each HEINE optical instrument depends on the bulb that powers it. Lenses built into the glass bulb envelope, precision filament placement and homogeneous light projection are major factors in ensuring the satisfactory performance of your HEINE instrument. We can only guarantee the performance and safety of your instrument if the appropriate HEINE bulb powers it. If a non-original copy of a HEINE bulb is used, the safety and performance of the HEINE instrument will be compromised and the manufacturer's guarantee will no longer be valid.

All XHL Xenon Halogen bulbs are now available singly in individual blister packs.
Insist on genuine HEINE replacement bulbs and parts to ensure the correct performance of your HEINE precision instrument.

HEINE XHL® Xenon Halogen Bulbs

For optimum performance and cost-effectiveness

:· Exceptional performance

:· Optimum light output

:· Extreme long life

GENERAL MEDICINE AND ENT INSTRUMENTS

Otoscopes	2.5 V	3.5 V
alpha* Otoscope	X-001.88.037	
alpha+* F.O. Otoscope	X-001.88.037	X-002.88.049
BETA 100 Otoscope	X-001.88.037	X-002.88.049
BETA 200 Otoscope	X-001.88.077	X-002.88.078
BETA 400 Otoscope	X-001.88.077	X-002.88.078
K 100 Otoscope	X-001.88.037	X-002.88.049
K 180 Otoscope	X-001.88.077	X-002.88.078
mini 2000* F.O. Otoscope	X-001.88.037	
mini 2000* Otoscope	X-001.88.056	
mini 3000 F.O. Otoscope	X-001.88.105	
mini 3000 Otoscope	X-001.88.110	
minilux* Otoscope	X-001.88.056	

ENT Instruments	2.5 V	3.5 V
alpha* Tongue blade holder	X-001.88.037	
alpha+* Tongue blade holder	X-001.88.037	X-002.88.049
Curved Laryngeal Mirror*	X-001.88.037	X-002.88.062
Straight Laryngeal Mirror*	X-001.88.057	X-002.88.063
mini 3000 Tongue blade holder	X-001.88.037	

* instrument no longer available

HEINE XHL® Xenon Halogen Bulbs

HNO Instruments	2.5V	3.5V
mini* Tongue blade holder	X-001.88.037	
Tongue blade holder (BETA)	X-001.88.037	X-002.88.049

Cliplights and Combi Lamps	2.5V	3.5V
HEINE Cliplight*	X-001.88.094	
mini2000* Clip Lamp, mini1000* Clip Lamp	X-001.88.041	
mini2000* Combi Lamp	X-001.88.041	
mini3000 Clip Lamp	X-001.88.107	
mini3000 Laryngeal Mirror*	X-001.88.057	
mini3000 Combi Lamp	X-001.88.107	
mini* Fibralux	X-001.88.041	
mini-c Clip Lamp	X-001.88.108	

∴ Exceptional performance

∴ Optimum light output

∴ Extreme long life

OPHTHALMIC INSTRUMENTS		
Direct Ophthalmoscopes	2.5V	3.5V
alpha* Ophthalmoscope	X-001.88.042	
alpha+* Ophthalmoscope	X-001.88.042	X-002.88.101
AUTOFOC*	X-001.88.032	X-002.88.047
BETA200 M2 Ophthalmoscope	X-001.88.069	X-002.88.070
BETA200 Ophthalmoscope	X-001.88.069	X-002.88.070
BETA200S Ophthalmoscope	X-001.88.069	X-002.88.070
K180 Ophthalmoscope	X-001.88.084	X-002.88.086
mini2000* Ophthalmoscope	X-001.88.042	
mini3000 Ophthalmoscope	X-001.88.106	
mini Miroflex*	X-001.88.042	
Miroflex* Ophthalmoscope	X-001.88.038	X-002.88.046

* instrument no longer available

Light &
Power Sources

HEINE XHL® Xenon Halogen Bulbs

:· **Exceptional performance**

:· **Optimum light output**

:· **Extreme long life**

Retinoscopes	2.5V	3.5V
alpha+* Spot Retinoscope	X-001.88.088	X-002.88.090
alpha+* Streak Retinoscope	X-001.88.087	X-002.88.089
BETA 200 Spot Retinoscope	X-001.88.088	X-002.88.090
BETA 200 Streak Retinoscope	X-001.88.087	X-002.88.089
HFR 2* Spot Retinoscope	X-001.88.038	X-002.88.046
HSR 2* Retinoscope	X-001.88.058	X-002.88.048

Other hand-held ophthalmic instruments	2.5V	3.5V
alpha* Focalux	X-001.88.042	
alpha* Ophthalmic Examination Light	X-001.88.043	X-002.88.102
alpha+* Finoff	X-001.88.035	X-002.88.044
alpha+* Focalux	X-001.88.042	X-002.88.101
alpha+* HSL 150 Hand-held Slit Lamp	X-001.88.098	X-002.88.099
alpha+* Ophthalmic Examination Light	X-001.88.043	X-002.88.102
Focalux*	X-001.88.039	X-002.88.091
Glaucotest*	X-001.88.035	X-002.88.044
HSL 100* Hand-held Slit Lamp	X-001.88.098	X-002.88.099
HSL 150 Hand-held Slit Lamp	X-001.88.098	X-002.88.099
LAMBDA 100 Retinometer	X-001.88.077	X-002.88.078
mini 2000* Focalux	X-001.88.042	
mini 3000 Focalux	X-001.88.042	
Ophthalmic Examination Lamp	X-001.88.032	X-002.88.047
Finoff Transilluminator	X-001.88.077	X-002.88.078

* instrument no longer available

HEINE XHL® Xenon Halogen Bulbs

Indirect Ophthalmoscopes	3.5V	6V
Indirect Hand-held Ophthalmoscope	X-002.88.050	X-004.88.081
OMEGA 100*		X-004.88.068
OMEGA 150*		X-004.88.068
OMEGA 180*		X-004.88.068
OMEGA 200		X-004.88.068
OMEGA 500 5W (standard equipment)		X-004.88.111
Video OMEGA 2C Ophthalmoscope		X-004.88.068
SIGMA 100*		X-004.88.076
SIGMA 150K* Headworn Ophthalmoscope		X-004.88.093
SIGMA 150*		X-004.88.093
SIGMA 150 M2* Headworn Ophthalmoscope		X-004.88.093

∴ Exceptional performance

∴ Optimum light output

∴ Extreme long life

VET INSTRUMENTS		
	2.5V	3.5V
BETA 100 VET Otoscope	X-001.88.037	X-002.88.049
BETA 200 VET Otoscope	X-001.88.077	X-002.88.078
Slit Illumination Head	X-001.88.077	X-002.88.078
Operating Otoscope	X-001.88.037	X-002.88.049

LARYNGOSCOPES		
	2.5V	3.5V
F.O. Laryngoscope Handle	X-001.88.035	X-002.88.044
Angled F.O. Laryngoscope Handle	X-001.88.035	X-002.88.044
F.O. SP Laryngoscope Lamp Handle	X-001.88.035	
Conventional Laryngoscope Blades*	X-001.88.059	

* instrument no longer available

HEINE XHL® Xenon Halogen Bulbs

DERMATOSCOPES AND ILLUMINATED LOUPES

Dermatoscopes	2.5V	3.5V
alpha+* Dermatoscope	X-001.88.034	X-002.88.053
DERMAPHOT* 2,2V vacuum bulb	X-000.88.082	
DELTA 10* Dermatoscope	X-001.88.038	X-002.88.046
mini 2000* Dermatoscope	X-001.88.034	
mini 3000 Dermatoscope	X-001.88.109	

Illuminated loupes	2.5V	3.5V
alpha+* Illuminated Loupe 5x, 8x	X-001.88.034	X-002.88.053
Illuminated Loupe 5x, 8x (BETA)	X-001.88.038	X-002.88.046

:· Exceptional performance

:· Optimum light output

:· Extreme long life

PROCTOLOGICAL INSTRUMENTS

	2.5V	3.5V
Illumination Adaptor for F.O. Instruments		X-002.88.078
Proctoscope Head for proximal illumination	X-001.88.040	X-002.88.051
Illumination Head for Spreadable Anal Speculum*	X-001.88.035	X-002.88.044

		6V
Lamp Handle		X-004.88.060

EXAMINATION LIGHTS

Headlights		6V
SL 350* Headlight		X-004.88.068
UBL 100* spectacle-mounted illuminator for Binocular Loupes		X-004.88.080

Examination lights		12V
HL 1200, 20W halogen bulb		J-005.27.075
HL 5000, 50W halogen bulb		J-005.27.111

* instrument no longer available

HEINE Projector Bulbs

PROJECTORS		
	Halogen	Xenon
F.O. Projector HK 4000* / 100W	**Y-096.15.103**	
F.O. Projector HK 6000*, 7000, 7000D* / 150W	**Y-096.15.102**	
F.O. Projector mini* 20W	**Y-096.14.103**	
F.O. Projector uno*, endo*, multi* 150W	**Y-096.11.103**	
Projector XENON 1000* / 100W		**Y-096.15.108**

* projector no longer available

Fiber Optic (F.O.) Projector HEINE® HK 7000

The F.O. Projector HK 7000 incorporates a special long-life halogen bulb rated at 150 Watts. If more light is needed for a particular examination, a boost switch can be operated, giving up to 40 % more light. Suitable for all HEINE Systems with fiber optic illumination. Dimensions: Width 177 mm, Height 125 mm, Depth 217 mm. Weight 3,690 g.

:· **Powerful halogen bulb.** For maximum brightness.
:· **Aspheric illumination optics.** Intense light with high colour temperature.
:· **Continuous light intensity adjustment without colour temperature changes.** Allows brightness reduction with no red shift of light.
:· **Boost switch.** Gives up to 40 % more light.
:· **Extended bulb life** of typ. 300 hours.
:· **Folding handle.** Easy to transport.
:· **For desk, wall, or wheeled stand.** Adaptable to individual needs.

:· Continuous brightness control

:· +40 % Boost switch

F.O. Projector HK 7000	
150 W XHL Halogen spare bulb and fuse included	**Y-096.15.121**

Spare fuse	**Y-096.15.110**
XHL Halogen spare bulb 150 W	**Y-096.15.102**
Wall support for HK 7000	**Y-096.15.105**

Standard Fiber Optic (F.O.) Cable for HEINE Fiber Optic Projectors

For use with HEINE Fiber Optic Instruments
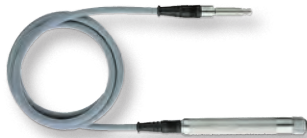
Fiber optic cable with handle for use with HEINE Fiber Optic Instruments and F.O. Projectors, for example the Instrument Head for disposable UniSpec tubes and the reusable F.O. Anoscope/Proctoscope Illumination Head, F.O. Anoscopes, Proctoscopes and Sigmoidoscopes. Length incl. handle: 180 cm.

:· **4 mm dia. fiber bundle of high quality.** Outstanding light transmission. Highly flexible cable.
:· **Inner metal sheathing.** Resistant to kinking.
:· **Smooth outer plastic sheathing.** Easy to clean.

Standard Fiber Optic cable	**Y-003.99.518**

Wheeled Stand

Suitable for all HEINE Fiber Optic projectors and for projectors of other manufacturers. Dimensions: Height 900 mm, weight 3,500 g.
Base-plate: Width 180 mm, height 150 mm, depth 240 mm

:· **5 legs with 60 cm wide base.** Ensures stability.
:· **2 wheel brakes.** Holds the stand securely in position.

Wheeled stand – without base-plate	**Y-096.50.001**
Wheeled stand – with base-plate	**Y-096.50.002**

230 V is the standard mains voltage. If a different voltage is required, e. g. 120 V, please specify when ordering.

How to bring **STRUCTURE** to your **LIFE.**

HEINE Cases

Soft pouch for otoscopes (60 mm x 230 mm x 40 mm) [01]   **A-180.01.000**

[01]

[02]

Zipper pouch for otoscopes (110 mm x 200 mm x 30 mm) [02]   **B-237.00.000**

[03]

Case for Binocular Loupe Sets A/C [03]   **C-000.32.552**

[04]

Hard case for Ophthalmic Diagnostic Sets
C-034 and C-076 (185 mm x 116 mm x 50 mm) [04]   **C-034.00.000**

[05]

Hard case for Indirect Ophthalmoscope Sets C-162, C-276,
C-278, C-283, C-284 (470 mm x 400 mm x 190 mm) [05]   **C-079.00.000**

[06]

Combi-case for Indirect Ophthalmoscope Sets C-162, C-276,
C-278, C-283, C-284 (432 mm x 330 mm x 197 mm) [06]   **C-079.03.000**

[07]

Hard case for Ophthalmic Diagnostic Sets C-261 and C-144
(185 mm x 116 mm x 50 mm) [07]   **C-144.06.000**

HEINE Cases

[08]

Hard case for Ophthalmic Diagnostic Sets C-262 and C-145
(235 mm x 135 mm x 50 mm) [08]   **C-145.00.000**

[09]

Case for Indirect Ophthalmoscope Set C-281 [09]   **C-160.00.000**

[10]

Hard case for LAMBDA 100 Retinometer Set
(235 mm x 135 mm x 50 mm) [10]   **C-187.06.000**

[11]

Soft pouch for mini (95 mm x 185 mm x 35 mm) [11]   **D-861.00.000**

[12]

Zipper case for mini 3000 Dermatoscope [12]   **D-887.00.000**

[13]

Zipper case for laryngoscopes (170 mm x 280 mm x 50 mm) [13]   **F-179.00.000**

[14]

Case for FlexTip+ F.O. Laryngoscope Sets F-227, F-229 or F-230 [14]   **F-227.01.000**

Further cases on request. Carrying cases and storage cases may deviate in shape and colour.

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HEINE GAMMA® G-Series. HEINE GAMMA G7 and HEINE GAMMA XXL LF Sphygmomanometers carry an extended guarantee of 10 years for the faultlessness from material, processing and construction defects. Wear parts and metrological control are not included.

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***HEINE Cube**. For the Cube HEINE grants a guarantee of 2 years.

▶ Due to local regulations, some products may not be available in your country.

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