HEINE
Veterinary catalogue 2023

General medicine & ENT instruments

HEINE G100 LED slit illumination head

With LED illumination in HEINE Quality – LED[HQ]

LED[HQ]
LED 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.

:‣ **There's LED. And there's LED[HQ].** 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 G100 LED slit illumination head is guaranteed with BETA rechargeable handles and the EN 200 / EN 200-1 wall transformers.**

:‣ **Also available with XHL xenon halogen illumination.** Bright illumination and authentic colour rendering; for other technical specifications see G100 LED slit illumination head.

HEINE G100 diagnostic kit

G100 slit illumination head with	LED
BETA4 USB rechargeable handle with USB cord and plug-in power supply [01]	G-010.28.388
BETA4 NT rechargeable handle with NT4 table charger	G-010.24.420

[01]

Without case

HEINE veterinary diagnostic sets

With XHL or LED^HQ illumination

Set includes: G100 slit illumination head,
1 set long, closed specula (57 mm x 4 mm Ø, 65 mm x 6 mm Ø, 90 mm x 7 mm Ø),
1 spare bulb for XHL version, hard case.

	2.5 V XHL	3.5 V 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 NT rechargeable handle with NT4 table charger		G-112.23.420	G-112.24.420

Set includes: G100 slit illumination head, ophthalmoscope BETA 200,
1 set long, closed specula (57 mm x 4 mm Ø, 65 mm x 6 mm Ø, 90 mm x 7 mm Ø),
1 spare bulb each for XHL version, hard case.

	2.5 V XHL	3.5 V 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 NT rechargeable handle with NT4 table charger		G-148.23.420	G-148.24.420

HEINE BETA® 200 LED VET F.O. otoscope

Veterinary otoscope with LED^{HQ} illumination

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.

:· **There's LED. And there's LED^{HQ}.** 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 VET specula.** See order information accessories on pages 008 – 009.

:· **Full functionality of the BETA 200 LED VET is guaranteed with BETA rechargeable handles and the EN 200 / EN 200-1 wall transformers.**

:· **Also available with XHL xenon halogen illumination.** Bright illumination and authentic colour rendering; for other technical specifications see BETA 200 LED VET F.O. otoscope.

LED^{HQ}
LED IN HEINE QUALITY.

Fiber optic (F.O.) illumination

HEINE BETA 200 VET diagnostic kit

With XHL or LED^{HQ} illumination

Without case

[01]

BETA 200 VET F.O. otoscope with	2.5V XHL	3.5V XHL	LED
BETA battery handle	G-011.10.118		
BETA4 USB rechargeable handle with USB cord and plug-in power supply [01]		G-011.27.388	G-011.28.388
BETA4 NT rechargeable handle with NT4 table charger		G-011.23.420	G-011.24.420

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 / Ø 4 mm	G-000.21.330
65 mm long / Ø 6 mm	G-000.21.331
90 mm long / Ø 7 mm	G-000.21.332
170 mm long / Ø 10 mm	G-000.21.350

57 mm
Ø 4 mm   65 mm
Ø 6 mm   90 mm
Ø 7 mm   170 mm
Ø 10 mm

Slit metal specula, open

:· **High-quality chrome-plated metal construction.** Easy to clean, disinfect and sterilize.
:· **Matte 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 / Ø 6 mm	G-000.21.341
90 mm long / Ø 7 mm	G-000.21.342

65 mm long
Ø 6 mm   90 mm long
Ø 7 mm

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.
:· **Matte 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

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.

Ø 5.5 mm Ø 4.5 mm

Ø 3.5 mm Ø 2.8 mm Ø 2.2 mm

Short, closed SANALON S specula	
for G100/G100 LED slit illumination head and BETA 100 VET* otoscope	
1 set = 5 veterinary specula in SANALON S	G-000.21.316
40 mm long / Ø 2.2 mm	G-000.21.310
40 mm long / Ø 2.8 mm	G-000.21.311
40 mm long / Ø 3.5 mm	G-000.21.312
40 mm long / Ø 4.5 mm	G-000.21.313
40 mm long / Ø 5.5 mm	G-000.21.314

HEINE reusable VET specula

A VET adaptor [01] is required for use 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.

Ø 9 mm Ø 6 mm Ø 4 mm

[01]

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 / Ø 4 mm	G-000.21.210
61 mm long / Ø 6 mm	G-000.21.211
61 mm long / Ø 9 mm	G-000.21.212
Adaptor for reusable SANALON S VET specula [01]	G-000.21.214

* instrument no longer available

General medicine & ENT
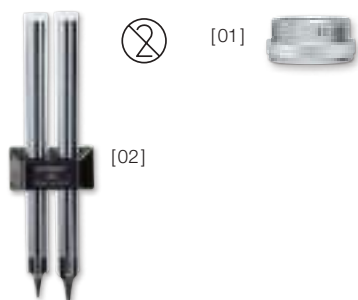
HEINE UniSpec® disposable specula

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.

Ø 2.5mm Ø 4mm

[01]

[02]

| UniSpec disposable specula	
for BETA 100 VET*, operating otoscope* and G100/G100 LED slit illumination head	
Pack of 1000 UniSpec disposable specula Ø 2.5mm	B-000.11.242
Pack of 1000 UniSpec disposable specula Ø 4mm	B-000.11.241
Adaptor for use with slit illumination head [01]	G-000.21.302
UniSpec tip dispenser	B-000.11.146

⊗: Single use only.

Further articles / accessories
HEINE veterinary ENT diagnostic instruments

Ø 2.2mm Ø 2.8mm Ø 3.5mm

Ø 4.5mm Ø 5.5mm Ø 10mm
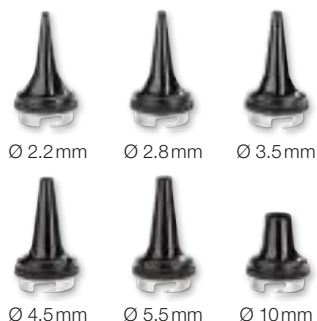
Reusable specula for operating otoscope*	
1 set = 5 ear specula and 1 nose speculum	B-000.11.221
3 specula Ø 3.5/4.5/5.5mm	B-000.11.222
Ear speculum Ø 2.2mm	B-000.11.215
Ear speculum Ø 2.8mm	B-000.11.216
Ear speculum Ø 3.5mm	B-000.11.217
Ear speculum Ø 4.5mm	B-000.11.218
Ear speculum Ø 5.5mm	B-000.11.219
Nose speculum Ø 10m	B-000.11.220

Ø 2.5mm Ø 4mm

[01] [02]

[03]

[04]

AllSpec disposable tips for BETA 100 VET* and operating otoscope*	
Pack of 1000 pcs. Ø 2.5mm [01]	B-000.11.128
Pack of 1000 pcs. Ø 4mm [01]	B-000.11.127
Case of 10 packs of 1000 pcs, Ø 2,5mm	B-000.11.138
Case of 10 packs of 1000 pcs, Ø 4mm	B-000.11.137
Dispenser pack, single, of 250 tips, Ø 2.5mm [02]	B-000.11.153
Dispenser pack, single, of 250 tips, Ø 4mm[02]	B-000.11.152
Case of 10 dispenser packs of 250 tips, Ø 2.5mm	B-000.11.151
Case of 10 dispenser packs of 250 tips, Ø 4mm	B-000.11.150
Adaptor for AllSpec tips [03]	B-000.11.306
AllSpec tip-dispenser (2 x 50 tips) [04]	B-000.11.149

⊗: Single use only.

* instrument no longer available

Further articles / accessories

HEINE veterinary ENT diagnostic instruments

G100 slit illumination head	2.5V XHL	3.5V XHL	LED
with swivel lens, without handle	G-001.21.301	G-002.21.301	G-008.21.301

BETA 200 VET F.O. otoscope head	2.5V XHL	3.5V XHL	LED
without handle and without accessories	G-001.21.250	G-002.21.250	G-008.21.250

Spare bulb for G100 and BETA 200 VET	2.5V XHL	3.5V XHL
XHL xenon halogen spare bulb	X-001.88.077	X-002.88.078

Spare bulb for operating otoscope* and BETA 100 VET*	2.5V XHL	3.5V XHL
XHL xenon halogen spare bulb	X-001.88.037	X-002.88.049

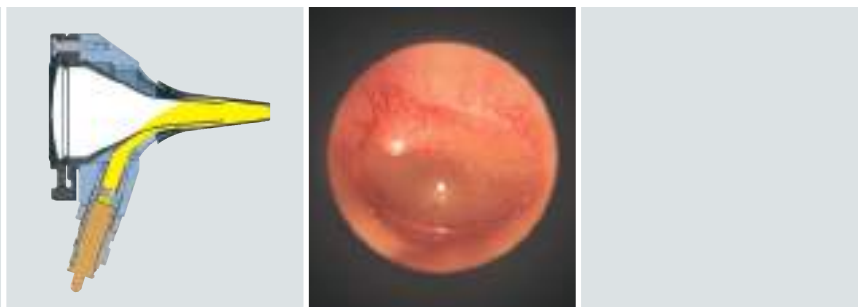| Swivel lens for G100 slit illumination head	
Swivel lens, single	G-000.21.209

Insufflation bulb for pneumatic testing	
Insufflation bulb for BETA 200 VET and BETA 100 VET* otoscopes	B-000.11.240

* instrument no longer available

General medicine & ENT

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 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.
:· **There's LED. And there's LED HQ.** 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 200 / EN 200-1 wall transformers.**
:· **Also available with XHL xenon halogen illumination.** Bright illumination and authentic colour rendering; for other technical specifications see BETA 400 LED F.O. otoscope.

:· **A tip for a better future.** HEINE AllSpec disposable tips – made of recycled plastic. Read more on page 008.

BETA 400 F.O. otoscope head	2.5V XHL	3.5V XHL	LED
with 4 reusable tips, without handle	B-001.11.401	B-002.11.401	B-008.11.401
without handle and without accessories	B-001.11.400	B-002.11.400	B-008.11.400

Spare bulb for BETA 400 and BETA 200	2.5V XHL	3.5V XHL
XHL xenon halogen spare bulb	X-001.88.077	X-002.88.078

HEINE BETA® 200 LED F.O. otoscope

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

LED^{HQ}
LED 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.

:· **3 x 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.
:· **There's LED. And there's LED^{HQ}.** 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 200 / EN 200-1 wall transformers.**

:· **Also available with XHL xenon halogen illumination.** Bright illumination and authentic colour rendering; for other technical specifications see BETA 200 LED F.O. otoscope.

:· **A tip for a better future.** HEINE AllSpec disposable tips – made of recycled plastic. Read more on page 008.

BETA 200 F.O. otoscope head	2.5 V XHL	3.5 V XHL	LED
with 4 reusable tips, without handle	B-001.11.501	B-002.11.501	B-008.11.501
without handle and without accessories	B-001.11.500	B-002.11.500	B-008.11.500

Spare bulb for BETA 400 and BETA 200	2.5 V XHL	3.5 V XHL
XHL xenon halogen spare bulb	X-001.88.077	X-002.88.078

General medicine & ENT

HEINE mini 3000® F.O. otoscope

Compact pocket otoscope with XHL or LED^HQ illumination

LED^HQ
LED IN HEINE QUALITY.

Modern pocket otoscope with 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.

Features for both instruments (XHL and LED):

:· **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.

:· **A tip for a better future.** HEINE AllSpec disposable tips – made of recycled plastic. Read more on page 008.

Special features of the LED instruments:

:· **Maintenance-free,** no need to ever exchange the LED.
:· LED thermal management for a **consistent light output throughout the whole working life.**
:· **There's LED. And there's LED^HQ.** 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.

mini 3000 F.O. otoscope head	2.5V XHL	2.5V LED
without handle and without accessories *	D-001.70.106	D-008.70.106

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

Spare bulb for mini 3000 F.O.	2.5V XHL
XHL xenon halogen spare bulb	X-001.88.105

HEINE mini 3000 F.O. diagnostic sets/kits

[01]

Set/kit includes: mini 3000 F.O. otoscope,
1 set (4 pcs.) of reusable tips, 10 AllSpec disposable tips 4 mm Ø
Optionally with or without hard case.

	2.5V XHL	2.5V LED
mini 3000 battery handle with batteries, hard case [01]	D-851.10.021	D-885.20.021
mini 3000 battery handle with batteries, without case	D-001.70.120	D-008.70.120

[02]

Without case

Kit includes: mini 3000 F.O. otoscope,
10 AllSpec disposable tips 4 mm Ø

	2.5V XHL	2.5V LED
mini 3000 battery handle with batteries [02]	D-001.70.110	D-008.70.110

Set includes: mini 3000 F.O. otoscope and mini 3000 ophthalmoscope,
1 set (4 pcs.) of reusable tips, 10 AllSpec disposable tips 4 mm Ø,
hard case.

	2.5V XHL	2.5V LED
2 mini 3000 battery handles with batteries	D-873.11.021	D-886.11.021

:· **For further information on the HEINE mini 3000 ophthalmoscope, please see**

HEINE AllSpec® disposable tips

Made of recycled plastic

Ø 2.5 mm   Ø 4 mm

Product made of RECYCLED MATERIAL

:- The **renowned HEINE Quality** is now saving tons of CO_2.
:- **For a particularly secure fit, best light transmission and hygiene.**
:- **Assured quality.** No sharp edges.
:- Read about what else we're doing for the environment here: www.heine.com

| AllSpec disposable tips	
for BETA 400, BETA 200, mini 3000 F.O., mini 3000 otoscopes	
Pack of 1000 pcs. Ø 2.5 mm [01]	B-000.11.128
Pack of 1000 pcs. Ø 4 mm [01]	B-000.11.127
Case of 10 packs of 1000 pcs, Ø 2,5 mm	B-000.11.138
Case of 10 packs of 1000 pcs, Ø 4 mm	B-000.11.137
Dispenser pack, single, of 250 tips, Ø 2.5 mm [02]	B-000.11.153
Dispenser pack, single, of 250 tips, Ø 4 mm [02]	B-000.11.152
Case of 10 dispenser packs of 250 tips, Ø 2.5 mm	B-000.11.151
Case of 10 dispenser packs of 250 tips, Ø 4 mm	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 50 tips) [03]	B-000.11.149

[03]

⊗: Single use only.

Reusable tips
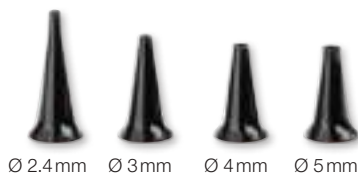
Ø 2.4 mm   Ø 3 mm   Ø 4 mm   Ø 5 mm

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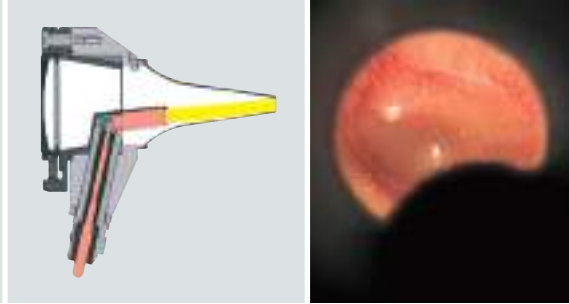
Reusable tips	1 piece	50 pieces
for BETA 400, BETA 200, mini 3000 F.O., mini 3000 otoscopes		
Reusable tip Ø 2.4 mm	B-000.11.107	B-000.11.207
Reusable tip Ø 3.0 mm	B-000.11.108	B-000.11.208
Reusable tip Ø 4.0 mm	B-000.11.109	B-000.11.209
Reusable tip Ø 5.0 mm	B-000.11.110	B-000.11.210
1 set = 4 pcs.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

Bright XHL xenon halogen direct illumination.

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 3 x 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*.

:· **A tip for a better future.** HEINE AllSpec disposable tips – made of recycled plastic. Read more on page 008.

mini 3000 otoscope head	2.5 V XHL
without handle and without accessories *	**D-001.70.206**

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

Spare bulb for mini 3000	2.5 V XHL
XHL xenon halogen spare bulb	**X-001.88.110**

HEINE mini 3000 diagnostic sets/kits

Set/kit includes: mini 3000 otoscope,
1 set (4 pcs.) reusable tips, 10 AllSpec disposable tips 4 mm Ø

	2.5 V XHL
mini 3000 battery handle with batteries, hard case [01]	D-851.20.021
mini 3000 battery handle with batteries, without case [02]	D-001.70.220
mini 3000 battery handle with batteries, without case, without reusable tips	D-001.70.210

[01]

[02]

Without case

Set includes: mini 3000 otoscope, mini 3000 ophthalmoscope,
1 set (4 pcs.) reusable tips, 10 AllSpec disposable tips 4 mm Ø, hard case.

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

Further articles / accessories

HEINE otoscopes

Replacement aperture cover for BETA 100* and K100*	
Aperture cover for bulb, reduces reflexes	B-000.11.212

Spare bulb for BETA 100* and K100*	2.5V XHL	3.5V XHL
XHL xenon halogen spare bulb	X-001.88.037	X-002.88.049

Tip adaptor for BETA 100* and K100*	
Adaptor for AllSpec disposable tips (p. 008) for use with diagnostic otoscope (BETA 100, K100)	B-000.11.306

Insufflation bulb for BETA 100* and K100*	
Insufflation bulb for pneumatic testing	B-000.11.240

Ø 2.2 mm   Ø 2.8 mm   Ø 3.5 mm

Ø 4.5 mm   Ø 5.5 mm   Ø 10 mm

Reusable specula for BETA 100* and K100*	
1 set = 5 ear specula and 1 nose speculum	B-000.11.221
3 specula Ø 3.5 / 4.5 / 5.5 mm	B-000.11.222
Ear speculum Ø 2.2 mm	B-000.11.215
Ear speculum Ø 2.8 mm	B-000.11.216
Ear speculum Ø 3.5 mm	B-000.11.217
Ear speculum Ø 4.5 mm	B-000.11.218
Ear speculum Ø 5.5 mm	B-000.11.219
Nose speculum Ø 10 mm	B-000.11.220

Ø 2.5 mm   Ø 4 mm

UniSpec disposable specula for BETA 100* and K100*	
Pack of 1000, Ø 2.5 mm (infants) 1000 pcs./1 pack	B-000.11.242
Pack of 1000, Ø 4 mm (adults) 1000 pcs./1 pack	B-000.11.241
UniSpec tip dispenser	B-000.11.146

: Single use only.

* instrument no longer available

Further articles / accessories

HEINE tongue-blade holder

Tongue-blade holder head for wooden tongue-blades	2.5V XHL	3.5V XHL
without handle and without accessories	B-001.12.302	B-002.12.302

Tongue-blade holder head for disposable tongue-blades	2.5V XHL	3.5V XHL
without handle and without accessories	B-001.12.305	B-002.12.305

mini 3000 tongue-blade holder head	2.5V XHL
without handle and without accessories	D-001.74.100

Spare bulb for tongue-blade holder	2.5V XHL	3.5V XHL
XHL xenon halogen spare bulb	X-001.88.037	X-002.88.049

Replacement light-guide for tongue-blade holder	
Light-guide for bulb	B-000.12.308

Spare bulb for mini 3000 tongue-blade holder	2.5V XHL
XHL xenon halogen spare bulb	X-001.88.037

Disposable plastic tongue-blades	
Pack of 100 disposable plastic tongue-blades	B-000.12.304

HEINE mini-c hand-held examination light

With unique LED^HQ

LED^HQ
LED IN HEINE QUALITY.

Robust, durable examination light in a compact pocket size.
Bright, concentrated light – with unique LED^HQ.

:· **Safe examination of the eyes** due to tested photobiological safety.
:· **Comfortable and ergonomic.**
:· **Natural colours and virtually unlimited operating life of the LED^HQ.**
:· **Switches off automatically when placed in the pocket.**
:· **20,000 on/off cycles guaranteed.**
:· **Replaceable batteries** (size: AAA).

Without case

	LED
mini-c hand-held examination light incl. batteries	D-008.73.109

Ophthalmic instruments

HEINE BETA® 200S LED ophthalmoscope

Superior aspherical optics with LED^HQ illumination

LED^HQ
LED IN HEINE QUALITY.

Exclusive dustproof design protects the precision optical components and ensures maintenance-free operation. The BETA 200/200S 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 200S LED has virtually unlimited hours of working life. No need to ever replace bulbs. Maintenance-free for a lifetime.

:∙ **Exclusive aspherical optical system (AOS).**
:∙ **There's LED. And there's LED^HQ.** 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 200S 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 1D steps: +1 through +38D
  – in 1D steps: –1 through –36D

:∙ **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 200S LED is guaranteed with BETA rechargeable handles and the EN 200 / EN 200-1 wall transformers.**

:∙ **Also available with XHL xenon halogen illumination.** Bright illumination and authentic colour rendering; for other technical specifications see BETA 200S LED ophthalmoscope.

BETA 200S with 7 apertures

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

With red-free filter

BETA 200S ophthalmoscope head	2.5V XHL	3.5V XHL	LED
without handle and without accessories	C-001.30.120	C-002.30.120	C-008.30.120

Spare bulb for BETA 200S, BETA 200 and BETA 200 M2	2.5V XHL	3.5V XHL
XHL xenon halogen spare bulb	X-001.88.069	X-002.88.070

Ophthalmic instruments

HEINE BETA® 200 LED ophthalmoscope

Superior aspherical optics with LED^{HQ} illumination

LED HQ
LED IN HEINE QUALITY.

The ophthalmoscope with unique aspherical optics and all features of the
BETA 200S 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	

:∙ **Full functionality of the BETA 200 LED is guaranteed with
BETA rechargeable handles and the EN 200 / EN 200-1 wall transformers.**

:∙ **Also available with XHL xenon halogen illumination.** Bright illumination and
authentic colour rendering; for other technical specifications see BETA 200 LED
ophthalmoscope.

BETA 200 with 6 apertures

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

With red-free filter

BETA 200 ophthalmoscope head	2.5V XHL	3.5V XHL	LED
without handle and without accessories	C-001.30.100	C-002.30.100	C-008.30.100

BETA 200 M2 ophthalmoscope head	2.5V XHL	3.5V XHL
without handle and without accessories 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

Spare bulb for BETA 200S, BETA 200 and BETA 200 M2	2.5V XHL	3.5V XHL
XHL xenon halogen spare bulb	X-001.88.069	X-002.88.070

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 1 D steps: 1 – 10	15	20	40		D
– in 1 D 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.**

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

K180 ophthalmoscope head	2.5V XHL	3.5V XHL
with aperture wheel 1, without handle and without accessories	C-001.30.206	C-002.30.206
with aperture wheel 2, without handle and without accessories	C-001.30.207	C-002.30.207

Spare bulb for K180	2.5V XHL	3.5V XHL
XHL xenon halogen spare bulb	X-001.88.084	X-002.88.086

Ophthalmic instruments

HEINE mini 3000® ophthalmoscope

Compact pocket ophthalmoscope with XHL or LED^HQ illumination

LED^HQ
LED IN HEINE QUALITY.

Modern pocket ophthalmoscope with 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.

Features for both instruments (XHL and LED):

:· **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.

mini 3000 apertures

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

Special features of the LED instruments:

:· **Maintenance-free,** no need to ever replace the LED.
:· LED Thermal management for a **consistent light output throughout the whole working life.**
:· **There's LED. And there's LED^HQ.** 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.

mini 3000 ophthalmoscope head	2.5 V XHL	2.5 V LED
without handle and without accessories *	D-001.71.105	D-008.71.105

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

Spare bulb for mini 3000	2.5 V XHL
XHL xenon halogen spare bulb	X-001.88.106

HEINE mini 3000 diagnostic sets / kits

Set includes: mini 3000 ophthalmoscope, hard case.

	2.5V XHL	2.5V LED
mini 3000 battery handle with batteries	D-852.10.021	D-885.21.021

mini 3000 ophthalmoscope with	2.5V XHL	2.5V LED
mini 3000 battery handle with batteries	D-001.71.120	D-008.71.120

Without case

Set/kit includes: mini 3000 ophthalmoscope, mini 3000 F.O. otoscope,
1 set (4 pcs.) of reusable tips, 10 AllSpec disposable tips 4 mm Ø

	2.5V XHL	2.5V LED
2 mini 3000 battery handles with batteries with hard case	D-873.11.021	D-886.11.021

:· For further information on the HEINE mini 3000 F.O. otoscope, please see page 013.

Set includes: mini 3000 ophthalmoscope, mini 3000 otoscope,
1 set (4 pcs.) of reusable tips, 10 AllSpec disposable tips 4 mm Ø

	2.5V XHL
2 mini 3000 battery handles with batteries with hard case	D-873.21.021

:· For further information on the HEINE mini 3000 otoscope, please see page 016.

Ophthalmic instruments

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.

:∙ **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.

HSL 150 hand-held slit lamp head	2.5 V XHL	3.5 V XHL
without handle	**C-001.14.602**	**C-002.14.602**

HSL 10 x loupe attachment for HSL 150	
Loupe attachment with 10 x magnification, without instrument	**C-000.14.606**

Spare bulb for HSL 150 hand-held slit lamp	2.5 V XHL	3.5 V XHL
XHL xenon halogen spare bulb	**X-001.88.098**	**X-002.88.099**

HEINE 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.**

Aperture combination

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

Ophthalmic examination lamp head	2.5V XHL	3.5V XHL
without handle	**C-001.14.400**	**C-002.14.400**

Spare bulb for ophthalmic examination lamp	2.5V XHL	3.5V XHL
XHL xenon halogen spare bulb	**X-001.88.032**	**X-002.88.047**

Ophthalmic instruments

HEINE Finoff transilluminator

For scleral transillumination

:· **Detachable cobalt blue filter.** Suitable for fluorescence examinations.

Finoff transilluminator with	LED
BETA4 USB rechargeable handle with USB cord and plug-in power supply	C-019.27.388
BETA4 NT rechargeable handle (without NT4 table charger)	C-019.23.396

[01]

Finoff transilluminator head	LED
Finoff for scleral transillumination, without handle [01]	C-002.17.080

Aperture for Finoff transilluminator	
Aperture with cobalt blue filter for Finoff transilluminator	C-000.17.081

Spare bulb for Finoff transilluminator	3.5V XHL
XHL xenon halogen spare bulb	X-002.88.078

LED HQ
LED IN HEINE QUALITY.

vision**BOOST**

Red-free, yellow
and cobalt blue filters

Diffuser HEINE,
small spot, medium
and large

HEINE OMEGA 600
operation film

HEINE OMEGA® 600 indirect ophthalmoscope

Discover more. With less weight.

The lightest high-end indirect ophthalmoscope worldwide
:‣ Best wearing comfort
:‣ Personalized fit
  – Ergonomic positioning of controls and levers
  – Adaptable for right and left handed users
  – Flip-up optics unit

Most precise diagnostic, up to the far retinal periphery
:‣ Significantly better diagnostics due to unique visionBOOST – even in dense cataracts
:‣ Sharpest fundus image due to superior glass optics
:‣ Brightest fundus image with true colour rendering thanks to our unique LEDHQ – now in even more natural colours
:‣ Best 3D imaging due to our unique Stereoscopic Adjustment technology
  – in dilated and undilated pupils
  – even with prematures and newborns

Long-lasting investment due to its robust design
:‣ Maintenance-free, dustproof optics
:‣ Legendary HEINE durability
:‣ 5-year guarantee

Easy and effective disinfection thanks to smoothSURFACE
:‣ No openings
:‣ Integrated electronics

Flip-up function of the optics unit
For more convenient patient interactions

***Eyepieces**
To best accommodate your view, exchange the initially mounted eyepieces +2 D with the neutral lenses 0 D (supplied with the instrument)

Width adjustment

[01]

[02]

[03]

[04]

[05]   [06]

OMEGA 600 sets	LED
OMEGA 600 wall charger set: Indirect ophthalmoscope (with battery and +2 D eyepiece), [01], E4-USBC [02], eyepiece 0 D*, CW1 wall charger [03]	**C-008.33.612**
OMEGA 600 traveller set: Indirect ophthalmoscope (with battery and +2 D eyepiece) E4-USBC, eyepiece 0 D*, traveller bag [04]	**C-008.33.613**
OMEGA 600 student set: Indirect ophthalmoscope (with battery and +2 D eyepiece), E4-USBC, eyepiece 0 D*, TM2 teaching mirror [05], traveller bag	**C-008.33.614**
OMEGA 600 charging set: CC1 charging case, CB1 charging battery [06]	**X-000.99.090**

Ophthalmic instruments

Further articles / accessories

HEINE OMEGA 600
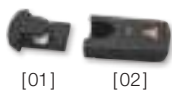
OMEGA 600 ophthalmoscope	LED
with battery and +2 D eyepiece, E4-USBC, eyepiece 0 D*	C-008.33.610

***Eyepieces:** To best accommodate your view, you can exchange the initially mounted eyepieces +2 D
with the neutral lenses 0 D (supplied with the instrument).

[01]   [02]

Accessories OMEGA 600 ophthalmoscope	
CC1 charging case [02]	X-000.99.091
CB1 charging battery [01]	X-007.99.687
E4-USBC power supply with cable [03]	X-000.99.300
CW1 wall charger (without OMEGA 600) [04]	X-095.17.320
TM2 teaching mirror [05]	C-000.33.212
OMEGA 600 **traveller bag** [06] (can be worn over the shoulder or as a backpack.)	C-080.00.000

[03]

[04]

[05]

For further information on the HEINE power sources see page 058.

[06]

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, Ø 54 mm	C-000.17.225
A.R. 20 D, Ø 50 mm	C-000.17.228
A.R. 30 D, Ø 46 mm	C-000.17.231

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

| Laryngoscopes

NEW!

allBRIGHT

HEINE visionPRO
videos

**HEINE visionPRO Mac 3 single-use
laryngoscope blades made from
upcycled material**

HEINE visionPRO video laryngoscope

With very, very, very good image quality

For fast and reliable intubation, nothing is more important than the best view of the glottis. The new HEINE visionPRO video laryngoscope provides just that with the new and one of a kind HEINE allBRIGHT display – even in very bright ambient light.
At the same time, the new HEINE visionPRO is extremely robust, reliable and durable. To be as environmentally friendly as possible, we chose a rechargeable lithium battery and are the first to provide a blade made from upcycled material.

Bright and sharp image
:· Unique worldwide: HEINE transflective allBRIGHT display adapts to even the brightest ambient light
:· Excellent 3.2" display in practical portrait format
:· Low-reflection intubation thanks to an adjustable display angle
:· Realistic colour representation thanks to smart image processing
:· HEINE LED^{HQ}

Quick and comprehensive orientation
:· Situational field of view of the glottis and the relevant surrounding anatomy

Extremely durable and long-lasting
:· Grip head and display frame made of anodised aluminium
:· Stainless steel handle and camera arm
:· Highly protective cover glass

Safe: Display and handle can be separated for numerous validated reprocessing methods
:· Assembled instrument: low level / wipe disinfection reprocessing
:· Handle: from wipe disinfection to immersion and sterilisation

Ecological and economical
:· Blade made from upcycled material
:· Rechargeable battery vs. disposable batteries
:· Cost reduction through economic procurement management

[01]

[02]

| visionPRO set Mac	
visionPRO video laryngoscope consisting of visionPRO HR1 Mac handle and visionPRO DS1 display unit, visionPRO CS1 charging station with plug-in power supply [01]	**F-270.95.862**
visionPRO Mac 3 single-use laryngoscope blades, **box of 50**	**F-000.22.253**
visionPRO Mac 4 single-use laryngoscope blades, **box of 50**	**F-000.22.254**
visionPRO Mac 3 single-use laryngoscope blades, **box of 10** [02]	**F-000.22.243**
visionPRO Mac 4 single-use laryngoscope blades, **box of 10**	**F-000.22.244**

HEINE Classic+ Macintosh fiber optic (F.O.) blades

Innovative fiber optic technology for advanced performance
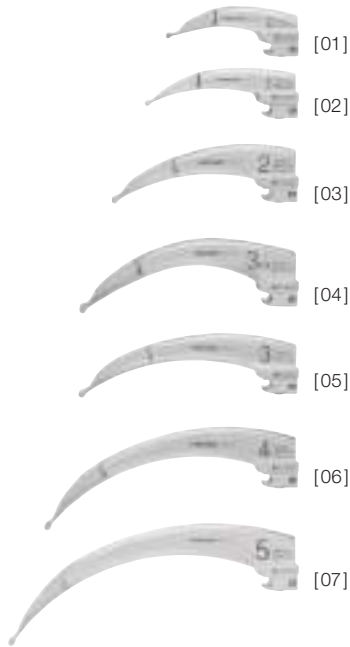
Our innovative manufacturing technology achieves even better illumination and a longer service life.

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

:· **The 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, disinfect and sterilise.

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

:· **10 years guarantee.** After 4000 autoclave cycles of 134 °C/4 min, illuminance of at least 1,000 lux.

[01]
[02]
[03]
[04]
[05]
[06]
[07]

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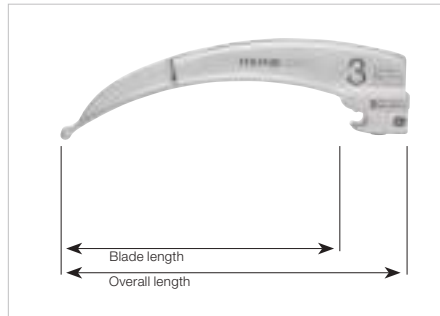
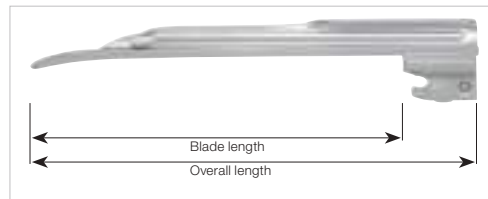| Size	Overall length	Blade length	Distal width	
Mac 0 [01]	82 mm	66 mm	9 mm	**F-000.22.100**
Mac 1 [02]	94 mm	78 mm	10 mm	**F-000.22.101**
Mac 2 [03]	114 mm	98 mm	14 mm	**F-000.22.102**
Mac 3m* [04]	134 mm	118 mm	14 mm	**F-000.22.143**
Mac 3 [05]	134 mm	118 mm	14 mm	**F-000.22.103**
Mac 4 [06]	155 mm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

* stronger curve

Laryngoscopes

HEINE Classic+ Miller fiber optic (F.O.) blades

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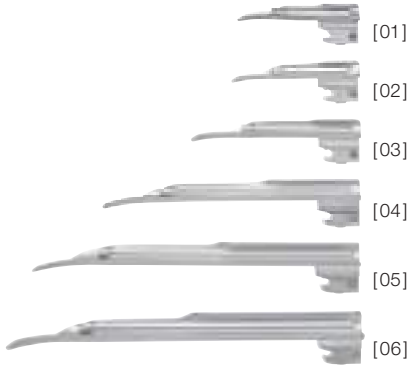
:· **The Miller Classic+ blades with improved geometry simplify intubation.**
The shortened shoulder of the blade dramatically improves the anesthetist's view of the epiglottis and vocal cords. The distal lip of the blade features a special atraumatic shape.

:· **HEINE HiLite fiber bundle** with up to 6,500 individual micro-fibers for 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, disinfect 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.**

:· **10 years guarantee.** After 4000 autoclave cycles of 134 °C / 4 min, illuminance of at least 1,000 lux.

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

Miller 2 side-view

Blade length
Overall length

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**

Laryngoscopes

HEINE EasyClean® LED laryngoscope handle

All three handle sizes: STANDARD, SLIM AND SHORT

LED IN HEINE QUALITY.

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®, VHP® (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

- **There's LED. And there's LEDᴴ᎔.** 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 LEDᴴ᎔.**
- **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 2 x C-batteries (LR14), complete* [01]	**F-008.22.820**
EasyClean LED SLIM laryngoscope handle suitable for 2 x AA-batteries (LR6), complete* [02]	**F-008.22.821**
EasyClean LED SHORT laryngoscope handle, suitable for 3 x 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®/VHP® (Steris))	Mechanical cleaning + disinfection (thermal disinfector)	Steam sterilisation/ autoclave
Temperature	Cold	< 60 °C	< 60 °C	max. 93 °C	max. 134 °C / 4 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

:· Compatible with all laryngoscope blades to the ISO 7376 (green standard).
:· HEINE standard F.O. 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.
:· **There's LED. And there's LED^HQ.** 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.**

LED^HQ
LED IN HEINE QUALITY.

[01]   [02]

Standard F.O.4 NT laryngoscope handle	XHL 3.5V Li-ion	LED 3.5V Li-ion
Standard F.O.4 NT handle, complete [01]	**F-007.22.894**	**F-008.22.894**
Rechargeable battery [02]	**X-007.99.383**	**X-007.99.383**
Spare bulb	**X-002.88.044**	-

Standard F.O. laryngoscope battery handle	XHL 2.5V	LED 2.5V
Standard F.O. handle, suitable for 2x C-batteries (LR14), compl.** [01]	**F-001.22.860**	**F-008.22.860**

[01]   [02]   [03]

F.O.4 SHORT NT laryngoscope handle	XHL 3.5V Li-ion	LED 2.5V 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**	-

**Delivery without batteries.
Please note: All Li-ion versions can only be charged with the NT4 table charger.

HEINE NT4 table charger and adaptors
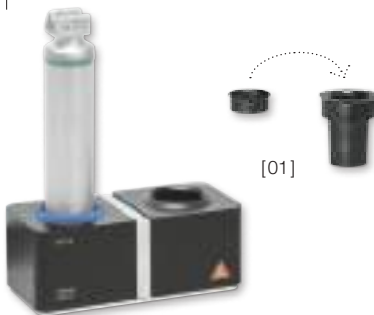
All rechargeable HEINE F.O.4 NT laryngoscope handles can only be charged with the NT4 table charger. The use of an adaptor is required for some handles. For detailed information about the NT4 table charger and adaptor, please see page 056.

[01]

NT4 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**

| Dermatoscopes

HEINE DELTA 30 dermatoscope

Confidence in diagnosis with our most precise imaging

LEDHQ
LED IN HEINE QUALITY.

Not only would our high-end dermatoscope win any beauty pageant; it stands out due to the best imaging we've ever developed. Combined with a field of view measuring a veritable 30 millimetres and unprecedented colour rendering, in LEDHQ of course. Polarisation provides glare-free and non-reflective working conditions. Above all else, it is comfortable to operate with its angled, ergonomic design and intuitive control.

- **:** **Largest field of view of real 30 mm** (lens 32 mm).
- **:** **Crystal-clear image** with the achromatic HEINE optical system.
- **:** **Fast change from contact- to non-contact examination.**
- **:** **Ergonomic handling** thanks to the angled product design.
- **:** **Operate with just one hand:** individual focusing dioptre compensation approximately -4 to +4 dpt.
- **:** **Excellent colour rendering** due to LEDHQ.
- **:** **Digital documentation:** Image and data management convenient and intuitive. More information on our website: www.heine.com/en/digital
- **:** **Glare-free and non-reflective working conditions** thanks to polarisation.
- **:** **Custom light intensity:** 3 degrees of luminous intensity.
- **:** **10 x magnification.**
- **:** **Switch between polarised and non-polarised light at the touch of a button** = toggle function. For more information, please visit heine.com/en/Toggle
- **:** **No cross-contamination:** autoclavable contact plate with scale.
- **:** **Maintenance-free** due to our dustproof design.
- **:** **Rechargeable battery with Li-ion technology:** no memory effect; you can safely recharge the battery regardless of its charge state.

Digital
documentation
by HEINE

HEINE DELTA 30 dermatoscope

[01]

	LED
DELTA 30 with contact plate with scale, USB cord with medical approved plug-in power supply, hard case [01]	**K-230.28.305**

Charger 30 table charging station [02]	**X-002.99.212**

: **Accessories can be found on page 042.**

[02]

HEINE DELTA*one* dermatoscope

Uniting diagnostic precision and mobility

LED HQ
LED IN HEINE QUALITY.

[01]

Small on the outside, big on the inside. This mobile marvel is taking medical professionals by storm. The crystal-clear image was accomplished using the achromatic HEINE optical system. What's more, it produces extraordinary colour rendering, due to the quality of our LED[HQ]. Examinations are now particularly comfortable due to the polarisation allowing doctors to work glare-free and without disrupting reflections. These three features – clarity, LED[HQ] and non-reflective working – plus the small dimensions, naturally, are what turn the DELTA*one* into a vital working tool wherever you go.

:· **Fits into any pocket.**
:· **Crystal-clear image** with the achromatic HEINE optical system.
:· **Fast change from contact- to non-contact examination.**
:· **Excellent colour rendering** due to LED[HQ].
:· **Glare-free and non-reflective working conditions** thanks to polarisation.
:· **Operate with just one hand:** individual focusing dioptre compensation approximately -4 to +4 dpt.
:· **Digital documentation:** Image and data management convenient and intuitive. More information on our website: www.heine.com/en/digital
:· **Field of view of real 21 mm** (lens 22 mm).
:· **Custom light intensity:** 3 degrees of luminous intensity.
:· **10x magnification.**
:· **Switch between polarised and non-polarised light at the touch of a button** = toggle function. For more information, please visit heine.com/en/Toggle
:· **No cross-contamination:** autoclavable contact plate with scale.
:· **Maintenance-free** due to our dustproof design.
:· **Rechargeable battery with Li-ion technology:** no memory effect; you can safely recharge the battery regardless of its charge state.

Digital documentation by HEINE

HEINE DELTA*one* dermatoscope

[02]

DELTA*one* with contact plate with scale, USB cord with medical approved plug-in power supply, hard case.

	LED
DELTA*one* Standard Edition (black-silver) [01]	**K-210.28.305**
DELTA*one* White Edition (white-silver) [02]	**K-211.28.305**

:· **Accessories can be found on page 042.**

Dermatoscopes

Further articles / accessories

HEINE dermatoscopes

[01]

[02]

[03]

DELTA 30	
Contact plate with scale [01]	**K-000.34.220**
Small contact plate [02] for the examination of difficult-to-access pigmented lesions	**K-000.34.206**
Charger 30 table charging station [03]	**X-002.99.212**

[04]

[05]

DELTA*one*	
Contact plate with scale [04]	**K-000.34.222**
Small contact plate [05] for the examination of difficult-to-access pigmented lesions	**K-000.24.207**

[06]

[07]

DELTA 30 and DELTA*one*	
The currently available iPhone* mounting cases for DELTA 30 and DELTA*one* can be found at www.heine.com/en/mounting-case-smartphone	
Universal smartphone adapter to clamp-on [06] Suitable for practically every smartphone with and without case	
for DELTA 30	**K-000.34.272**
for DELTA*one*	**K-000.34.271**
Universal smartphone connector adhesive [07] Fits many common smartphone cases with smooth surface made of hard plastic, the camera must not protrude from the case	**K-000.34.270**
USB cord with E4-USB medical approved plug-in power supply	**X-000.99.303**

| Stethoscopes

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 diameter
:· **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

Technical data as GAMMA 3.2.

:· **Reduced contact area** of 31 mm.

GAMMA 3.3	**M-000.09.943**

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 LoupeLight2.

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

HEINE HR 2.5x high resolution binocular loupes

With i-View loupe mount

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 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 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

Set A

Set B
with S-GUARD

Set C
without
S-GUARD

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 LoupeLight2.

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

HEINE HRP high resolution prismatic binocular loupes

With i-View loupe mount

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 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 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

Set A

Set B
with S-GUARD

Set C
without
S-GUARD

Loupes & headlights

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

HEINE C2.3 binocular loupes

The cost-effective all-purpose loupe

Ideal for dental laboratories and general medical examination.

C2.3

:· **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 C2.3 loupe make it the ideal all-purpose loupe.
:· **Working distance.** 340 mm or 450 mm (13 or 18 inches).
:· Also available as C2.3K on Lightweight headband.

C2.3K

Specifications	C2.3 x / **340 mm**	C2.3 x / **450 mm**
Magnification	2.3 x	2.3 x
Working distance	340 mm	450 mm
Field of view Ø	110 mm	130 mm
Weight	46 g	46 g
Depth of field	120 mm	190 mm

User's refractive error	Effective working distance C2.3 x / **340 mm**	Effective working distance C2.3 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 C2.3K 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.

C2.3 / C2.3K binocular loupes	
C2.3 / 340 loupe in case	**C-000.32.039**
C2.3 / 450 loupe in case	**C-000.32.202**
C2.3K / 340 headband loupe in case	**C-000.32.230**
C2.3K / 450 headband loupe in case	**C-000.32.231**

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

HEINE LoupeLight2

Compact LED^HQ headlight – now even brighter

:· **There's LED. And there's LED^HQ.** 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 P2 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 LoupeLight2 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 Ø at 420 mm, 95 mm Ø 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)

*Measured at a working distance of 180 mm from the light emission to the object.

:· **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.
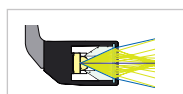
Conventional system [02]
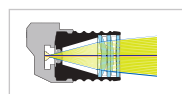
HEINE precision 4-lens system [03]

Comparison of homogeneity

HEINE mPack mini

Compact and lightweight power source for LoupeLight2

:· **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 page 061.**

Loupes & headlights

HEINE LoupeLight2 and accessories

Ordering information

[01]

LoupeLight2	
LoupeLight2 for HR/HRP loupes for i-View loupe mount [01]	**C-008.32.226**

[02]

[03]

LoupeLight2 with power source	
for i-View loupe mount (HR / HRP)	
LoupeLight2 with mPack mini and E4-USB plug-in transformer [02]	**C-008.32.265**
mPack mini belt clip [03]	**X-000.99.006**

*Not suitable for HR/HRP loupes with a rigid loupe mount.

For further information on the mPack mini, please see page 061. Power supplies may deviate in size and shape.

HEINE LoupeLight2 sets

With mPack mini and E4-USB plug-in transformer

LoupeLight2 sets with **HR** binocular loupes			
Magnification / 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 LoupeLight2 detachable yellow filter mPack mini mPack mini belt clip E4-USB plug-in transformer connecting cord protective lenses 2 sterilisable levers retaining cord, cleaning cloth, case	**C-008.32.450**	**C-008.32.451**	**C-008.32.452**

LoupeLight2 sets with **HRP** binocular loupes			
Magnification / working distance in mm	HRP 3.5x/420	HRP 4x/340	HRP 6x/340
HRP optics with i-View on S-FRAME and LoupeLight2 detachable yellow filter mPack mini mPack mini belt clip E4-USB plug-in transformer connecting cord protective lenses 2 sterilisable levers retaining cord, cleaning cloth, 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 ML4 LED HeadLight

Ultra bright coaxial LED^HQ illumination

LED HQ
LED IN HEINE QUALITY.

:• **There's LED. And there's LED^HQ.** 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 P2 improves contrast and yellow filter reduces blue light.

Comparison of homogeneity
[01] Competitor product
[02] HEINE ML4 LED HeadLight

Technical Specification	
Illumination	**Typ. 90,000 lux***
Colour temperature	**Typ. 5,500 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.

HEINE ML4 LED HeadLight

Ordering Information

LED HQ
LED IN HEINE QUALITY.

[01]

[03]

[04]

[05]

ML4 LED HeadLight with Professional L headband	
ML4 LED HeadLight with mPack and plug-in transformer [01] + [03]	**J-008.31.413**
ML4 LED HeadLight with mPack UNPLUGGED and plug-in transformer UNPLUGGED [01] + [04]	**J-008.31.415**
ML4 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.

Loupes & headlights

HEINE ML4 LED HeadLight with HR / HRP optics

The ML4 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.

LED HQ
LED IN HEINE QUALITY.

:∙ **HEINE S-GUARD:** Rapid and simple symmetric adjustment of binocular loupes with splash protection by protective lenses.

:∙ **HEINE i-View for ML4 LED HeadLight:** Provides any angle of view and flips up the optics independently of the illumination beam.

ML4 LED HeadLight kits **with** S-GUARD and power source		
The following kits contain: ML4 LED HeadLight on Professional L headband, HR/HRP optics with i-View and S-GUARD, mPack and plug-in transformer		
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**

ML4 LED HeadLight kits with power source **without** S-GUARD		
The following kits contain: ML4 LED HeadLight on Professional L headband, HR/HRP optics with i-View, mPack and plug-in transformer		
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**

For information on other configurations, please visit heine.com

HR / HRP binocular loupes – retrofitting sets

For HEINE ML4 LED HeadLight

Pos. 1

Pos. 2

[01]

Retrofitting set HR / HRP binocular loupes for ML4 LED HeadLight		
The sets enable you to equip your existing ML4 LED HeadLight with a binocular loupe. The set contains HR/HRP optics with i-View and S-GUARD splash protection.		
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 ML4 LED HeadLight [01]		**C-000.32.399**

Power sources

[01] [02]

mPack and plug-in transformer [01]	**X-007.99.672**
Plug-in transformer for ML4 LED HeadLight [02]	**X-095.16.330**

Power supplies may deviate in size and shape.

| Power sources

HEINE BETA® handle module

The handle module X-000.99.010, 145 mm x 30 mm Ø, 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

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

To upgrade to a rechargeable instrument with mini NT table charger, please see www.heine.com

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 BETA4 USB Handle the indicator blinks green during the charging process and shines permanently green as soon as it is fully charged.

BETA4 NT rechargeable handle for NT4 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.

Not compatible with the NT 300 table charger and the previous generations.

	3.5 V Li-ion
Rechargeable handle complete with Li-ion rechargeable battery and BETA4 NT bottom insert	X-007.99.396
BETA4 NT bottom insert	X-002.99.394
Li-ion rechargeable battery for BETA4 rechargeable handle	X-007.99.383

BETA4 USB Li-ion rechargeable handle

:· **Maximum safety.** You can charge your HEINE BETA4 USB handle with any USB plug or other USB power source, with absolute peace of mind. The BETA4 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, BETA4 USB bottom insert, USB cord with medical approved plug-in power supply and handle rest	X-007.99.388
Li-ion rechargeable battery for BETA4 rechargeable handle	X-007.99.383
BETA4 USB bottom insert	X-002.99.395

Power supplies may deviate in size and shape.

HEINE NT4 table charger

Dimensions: Width 142 mm, height 61 mm, depth 66 mm.
With the appropriate adaptor set all BETA4 NT and BETA4 SLIM NT rechargeable handles can be charged in the NT4 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.

[01]
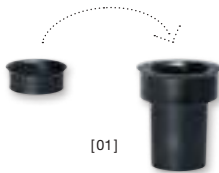
NT4 table charger	
without handle, with adaptor. For BETA4 NT rechargeable handles, Standard F.O.4 NT and F.O.4 SHORT NT laryngoscope rechargeable handles. BETA4 SLIM NT rechargeable handles and F.O.4 SLIM NT laryngoscope rechargeable handles (adaptor set required X-000.99.086).	**X-002.99.494**
Adaptor set (two pieces) for BETA4 SLIM NT rechargeable handles and F.O.4 SLIM NT laryngoscope rechargeable handles [01]	**X-000.99.086**

:· **Not suitable for rechargeable handles of the previous generations such as BETA L, BETA NT, BETA SLIM and Standard / Small / Short F.O. laryngoscope handle.**

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

HEINE BETA®4 upgrade kits

For converting to HEINE BETA4 charging technology

For simple conversion of an older HEINE BETA R rechargeable handle or a BETA TR rechargeable handle (both discontinued) to the current generation of BETA4 USB rechargeable handles featuring modern Li-ion technology.

Upgrade kit BETA4 USB	3.5V Li-ion
BETA4 USB bottom insert, Li-ion L rechargeable battery, E4-USB plug-in power supply and USB cord, handle rest	X-010.99.388

For simple conversion of a BETA L rechargeable handle to the current BETA4 NT generation of handles.

Upgrade kit BETA4 NT	3.5V Li-ion
BETA4 NT bottom insert, NT4 table charger	X-010.99.420

For simple conversion of a BETA NT rechargeable handle (with Ni-MH rechargeable battery) to a BETA4 NT rechargeable handle with modern Li-ion technology.

Upgrade kit BETA4 NT	3.5V Li-ion
BETA4 NT bottom insert, Li-ion L rechargeable battery, NT4 table charger	X-011.99.420

HEINE EN 200 diagnostic centre – individual

Put together your individual diagnostic centre: The EN 200 wall transformer and additional components such as the AllSpec tip dispenser 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.
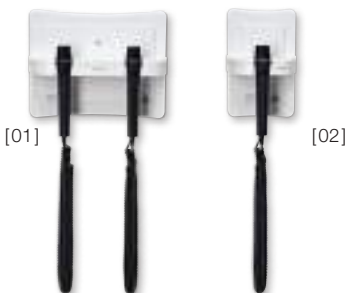
EN 200 wall transformer* [01]	X-095.12.250
EN 200-1 wall transformer* (extension unit with one handle) for use with the EN 200 wall transformer (with short USB cord) [02]	X-095.12.251
EN 200-1 wall transformer* (single unit with one handle) as single module with long USB cord and E 4-USB plug-in power supply [02]	X-095.12.252
AllSpec tip dispenser, for EN 200 [03]	B-000.11.149

* without instruments

[01] [02] [03]

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

HEINE CC1 charging case for OMEGA 600

The CC1 charging case allows you to charge a second battery while you continue working with your instrument. Charging time typ. 1.5 hours.

CC1 charging case	X-000.99.091

HEINE CB1 charging battery for OMEGA 600

The CB1 charging battery for OMEGA 600 is a compact, lightweight lithium polymer battery. It has an operating time of up to 8 hours depending on illumination intensity. An extra battery offers you even more flexibility as you can charge one battery while you continue working with your instrument. Can be charged separately from the OMEGA 600 in the CC1 charging case.

CB1 charging battery	X-007.99.687

HEINE OMEGA 600 charging set

The OMEGA 600 charging set **includes a CC1 charging case and CB1 charging battery**. This set offers you even more flexibility as you can charge the second battery while you continue working with your instrument.

OMEGA 600 charging set: CC1 charging case and CB1 charging battery	X-000.99.090

HEINE E4-USBC power supply for OMEGA 600

Easy plug-in power supply with USB-C cable for charging the OMEGA 600. Approved for medical use.

E4-USBC power supply with cable	X-000.99.300

HEINE CW1 wall charger for OMEGA 600

The CW1 wall charger offers a convenient charging possibility between examinations to make sure your OMEGA 600 is always charged and ready to use when you need it. The design of the charger protects the OMEGA 600 from accidental fall.

:∙ The OMEGA 600 can be charged directly at the CW1 wall charger.
:∙ Automatic switch-off of the OMEGA 600 in the wall charger.
:∙ Charging time typ. 1.5 hours.

CW1 wallcharger (without OMEGA 600)	X-095.17.320

Power supplies may deviate in size and shape.

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**

HEINE mPack UNPLUGGED

Headband-mounted rechargeable battery

Rechargeable battery for ML4 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 ML4 LED HeadLight.
:‧ **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.**

[01]

[02]

LI POL

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**

Power supplies may deviate in size and shape.

HEINE mPack

Portable power pack for ML4 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 3x 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 ML4 LED HeadLight.
:· **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.

[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-007.99.686
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

HEINE mPack mini

Power source for LoupeLight2

:· **Freedom from cables** that tie the user to desk, wall or static power supplies.
:· **Operating time LoupeLight2:** Typ. 9 hours in everyday practical use. 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.
:· **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.

[01]

mPack mini	6V
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 [02]	X-000.99.006
USB cord [03] with E4-USB plug-in transformer [04]	X-000.99.303
E4-USB medical approved plug-in power supply for USB cord [04]	X-000.99.305

[02]

[04]

[03]

Power supplies may deviate in size and shape.

HEINE QUALITY
MADE IN GERMANY

Standard 5 year parts and labor guarantee

All HEINE products carry a 5 year parts and labor guarantee against defects in design, materials and workmanship. Excluded from this are wear and tear, single-use items and consumables as well as rechargeable batteries and exposed and accessible control and supply cables with corresponding plug connection.

For details please visit www.heine.com.

Product-related guarantee conditions
for the HEINE visionPRO video laryngoscope and HEINE fiber optic laryngoscope blades are available at:
www.heine.com/en/service-support/guarantee

5 YEAR GUARANTEE

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

QUALITY
made in
GERMANY.

As a global leader in the manufacture of primary diagnostic instruments with over 500 employees, HEINE Optotechnik has been a 100 % family owned and managed company for more than 75 years. We continue to develop and manufacture HEINE instruments at our facilities in Germany, where we combine decades-long experience and craftsmanship with the most modern manufacturing technologies.

We are represented in over 120 countries around the world, with subsidiaries in the US, Canada, Australia and Switzerland as well as 3,000 representatives, importers and specialist dealers.

We look forward to hearing from you – and would like to know more about your opinions, desires and suggestions regarding our products.

Your distributor

HEINE