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# HEINE
# Master catalogue
# 2024 | V2

General medicine, ENT & VET

Ophthalmic instruments

Combined diagnostic sets

Laryngoscopes

Dermatoscopes

Sphygmomanometers and stethoscopes

Proctological instruments

Examination lights

Loupes and headlights

Light and power sources

Carrying cases and storage cases

**Better illumination.**
**Superior**
**colour rendering.**
**Greater magnification.**

# HEINE otoscopes
## Overview

It goes without saying that all of our otoscopes are premium products. But, still, they differ in one or two details. Read on for a summary of what these different details are and all their benefits:

| | **BETA 400 F.O.**<br>High-end otoscope | **BETA 200 F.O.**<br>Standard otoscope | **K180 F.O.**<br>Basic otoscope | **mini 3000 F.O.**<br>Pocket otoscope | **mini 3000**<br>Pocket otoscope |
|---|---|---|---|---|---|
| | **Very detailed** | **Quick overview** | | **Compact & mobile** | **Compact & mobile** |
| Level of detail | very high | high | adequate | good | adequate |
| Viewing window | glass | | acrylic | | |
| Magnification | 4,2 x | 3 x | | | |
| Illumination | F.O. LED[HQ] | | | F.O.<br>XHL or LED[HQ] | direct<br>XHL |
| Housing construction | metal | | polycarbonate | | |
| Handle options \| power sources | battery handle<br>USB rechargeable handle,<br>rechargeable handle with table charger,<br>EN 200 \| EN 200-1 | | | battery handle,<br>rechargeable handle with table charger | |
| Tips \| specula | reusable tips, AllSpec disposable tips | | | | |
| Pneumatic testing of tympanum mobility | insufflation port available | | | insufflation port available,<br>connector required | – |
| Catalogue page | 7 | 9 | 11 | 13 | 18 |

## HEINE BETA® 400 LED F.O. otoscope
## Our high-end instrument
## with 4.2x magnification

Exceptional durability combined with our highest 4.2x magnification. LED$^{HQ}$ provides particularly bright illumination. BETA otoscopes are the result of ongoing optimisation and further development down to the smallest detail – where we leave nothing to chance.

**EXTREMELY DETAILED VIEW**

- Easy identification of anatomical structures and foreign bodies due to 4.2x magnification
- Very good spatial representation due to high depth of field
- High-resolution images due to precision optics
- Natural colour rendering
- Even and reflex-free illumination due to fiber optic technology
- Particularly bright due to LED$^{HQ}$

**EXTREME DURABILITY**

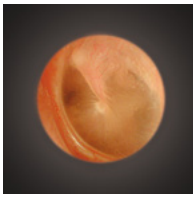
- Solid metal housing
- Scratch-proof glass lenses
- Consistently good view over many years
- No need to ever exchange the LED thanks to LED$^{HQ}$

**INTUITIVE OPERABILITY**

- Practical one-finger operation
- Always the ideal light intensity due to patented and continuous brightness control
- Easy instrumentation due to a fixed optical system to be flipped open
- Safe, hygienic reprocessing
- Pneumatic eardrum testing by means of an integrated insufflation port

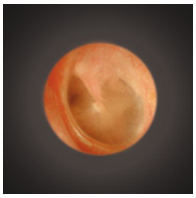
**FLEXIBLE POWER SOURCE OPTIONS**

- Rechargeable battery: with USB or table charger
- Full functionality of the BETA 400 LED is guaranteed with the current BETA rechargeable handles and the EN 200 | EN 200-1 wall transformers



BETA 400 LED F.O.
with 4,2 x magnification

- Practical and expandable with other HEINE instrument heads



Conventional otoscope

- **A tip for a better future.** HEINE AllSpec disposable tips – made of recycled plastic. Read more on page 15

# HEINE BETA® 400 LED F.O. otoscope
## Diagnostic sets | kits

[01]

**Set includes: BETA 400 F.O. otoscope,**
1 set (4 pcs.) of reusable tips, 10 AllSpec disposable tips 4 mm Ø,
hard case

| | 2.5V LED | 3.5V LED |
|---|---|---|
| BETA battery handle | **B-143.10.118** | – |
| BETA4 USB rechargeable handle with USB cord and plug-in power supply | – | **B-143.28.388** |
| BETA4 NT rechargeable handle with NT4 table charger [01] | – | **B-143.24.420** |

[02]

**Kit includes: BETA 400 F.O. otoscope,**
10 AllSpec disposable tips 4 mm Ø

| | 2.5V LED | 3.5V LED |
|---|---|---|
| BETA battery handle | **B-010.10.118** | – |
| BETA4 USB rechargeable handle with USB cord and plug-in power supply [02] | – | **B-010.28.388** |
| BETA4 NT rechargeable handle with NT4 table charger | – | **B-010.24.420** |


- You can find information on our combined diagnostic sets and kits on pages 72 to 76.
- For information on HEINE battery and rechargeable handles and the EN 200 wall transformer, see pages 148-157.

## HEINE BETA® 200 LED F.O. otoscope
## Standard instrument for a quick overview

Exceptional durability combined with optimum magnification. Particularly bright illumination due to LED$^{HQ}$. BETA otoscopes are the result of ongoing optimisation and further development down to the smallest detail – where we leave nothing to chance.

**QUICK OVERVIEW**
- Very good spatial representation due to maximum depth of field
- High-resolution and distortion-free images due to multi-coated glass viewing window
- 3x magnification
- Natural colour rendering
- Even and reflex-free illumination due to fiber optic technology
- Particularly bright due to LED$^{HQ}$

**EXTREME DURABILITY**
- Solid metal housing
- Scratch-proof glass lenses
- Consistently good view over many years
- No need to ever exchange the LED thanks to LED$^{HQ}$

**INTUITIVE OPERABILITY**
- Practical one-finger operation
- Always the ideal light intensity due to patented and continuous brightness control
- Easy instrumentation due to fixed, swivelling viewing window
- Safe, hygienic reprocessing
- Pneumatic eardrum testing by means of an integrated insufflation port

**FLEXIBLE POWER SOURCE OPTIONS**
- Rechargeable battery: with USB or table charger
- Full functionality of the BETA 200 LED is guaranteed with the current BETA rechargeable handles and the EN 200 | EN 200-1 wall transformers

- Practical and expandable with other HEINE instrument heads

- **A tip for a better future.** HEINE AllSpec disposable tips – made of recycled plastic. Read more on page 15

## HEINE BETA® 200 LED F.O. otoscope
## Diagnostic sets | kits

[01]

**Set includes: BETA 200 F.O. otoscope,**
1 set (4 pcs.) of reusable tips, 10 AllSpec disposable tips 4 mm Ø,
hard case

| | 2.5V LED | 3.5V LED |
|---|---|---|
| BETA battery handle | **B-141.10.118** | – |
| BETA4 USB rechargeable handle with USB cord and plug-in power supply | – | **B-141.28.388** |
| BETA4 NT rechargeable handle with NT4 table charger [01] | – | **B-141.24.420** |

[02]

**Kit includes: BETA 200 F.O. otoscope,**
10 AllSpec disposable tips 4 mm Ø

| | 2.5V LED | 3.5V LED |
|---|---|---|
| BETA battery handle | **B-011.10.118** | – |
| BETA4 USB rechargeable handle with USB cord and plug-in power supply [02] | – | **B-011.28.388** |
| BETA4 NT rechargeable handle with NT4 table charger | – | **B-011.24.420** |


- You can find information on our combined diagnostic sets and kits on pages 72 to 76.
- For information on HEINE battery and rechargeable handles and the EN 200 wall transformer, see pages 148-157.

## NEW | HEINE K180 LED F.O. otoscope
## Standard instrument for a smaller budget

Otoscope with fiber optic technology.
Housing made of lightweight, shockproof polycarbonate.

**DETAILED VIEW**
- High-resolution and distortion-free images due to acrylic viewing window
- 3x magnification
- True-to-life colour rendering
- Even and reflex-free illumination due to fiber optic technology
- Particularly bright due to LED$^{HQ}$

**ENHANCED DURABILITY**
- Sturdy polycarbonate housing
- Lightweight yet durable

**INTUITIVE OPERABILITY**
- Practical one-finger operation
- Always the ideal light intensity thanks to continuous brightness control
- Easy instrumentation due to fixed, swivelling viewing window
- Safe, hygienic reprocessing
- Pneumatic eardrum testing by means of an integrated insufflation port

**FLEXIBLE POWER SOURCE OPTIONS**
- Rechargeable battery: with USB or table charger
- EN 200 | EN 200-1 wall transformer
- Replaceable batteries

- **A tip for a better future.** HEINE AllSpec disposable tips – made of recycled plastic. Read more on page 15

NEW

# HEINE K180 LED F.O. otoscope

## Diagnostic sets | kits

[01]

[02]

**Set includes: K180 LED F.O. otoscope,**
1 set (4 pcs.) of reusable tips, soft pouch

| | 2.5V LED | 3.5V LED |
|---|---|---|
| BETA battery handle | **B-181.10.118** | – |
| BETA4 USB rechargeable handle with USB cord and plug-in power supply [01] | – | **B-181.28.388** |

**Kit includes: K180 LED F.O. otoscope with**

| | 2.5V LED |
|---|---|
| BETA battery handle [02] | **B-012.10.118** |


- You can find information on our combined diagnostic sets and kits on pages 72 to 76.
- For information on HEINE battery and rechargeable handles and the EN 200 wall transformer, see pages 148-157.

## HEINE mini 3000® LED F.O. otoscope
## HEINE quality in pocket format

Compact otoscope with especially bright illumination and authentic colour rendering due to LED$^{HQ}$ (no need to ever exchange the LED). Exclusive design. Sturdy housing. Always close to hand. Available in black or blue. It is impossible to get much more in such a small housing.

**INTUITIVE OPERABILITY**

- Always close to hand with practical attachment clip
- Switches off automatically as soon as it is clipped to the pocket
- Easy instrumentation. Viewing window fixed and can be swivelled to the side
- Pneumatic eardrum testing by means of an integrated insufflation port
- Sturdy and non-slip due to a high-quality handle housing

**DETAILED VIEW**

- High-resolution images, minimal reflection
- 3x magnification
- Natural colour rendering
- Even and reflex-free illumination due to fiber optic technology
- Particularly bright due to LED$^{HQ}$

**FLEXIBLE POWER SOURCE OPTIONS**

- Rechargeable battery: with mini NT table charger
- Replaceable batteries
- Operating time of typically 10 hours: Fewer battery changes, rechargeable batteries last longer

- Practical and expandable with other mini 3000 instrument heads

- **Also available with XHL xenon halogen illumination**
  Bright illumination and authentic colour rendering; for other technical specifications see mini 3000 LED otoscope

- **A tip for a better future.** HEINE AllSpec disposable tips – made of recycled plastic. Read more on page 15

## HEINE mini 3000® F.O. otoscope
## 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]

**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** |
| mini 3000 rechargeable handle (please order mini NT table charger separately) | **D-001.70.301** | **D-008.70.301** |

- Available in black or blue. Please specify the colour you prefer when ordering. If not otherwise specified, we will supply black instruments.
- You can find information on our combined diagnostic sets and kits on pages 72 to 76.
- To upgrade to a rechargeable instrument with mini NT table charger, please see page 158.

## HEINE AllSpec® disposable tips made of recycled plastic

Ø 2,5 mm Ø 4 mm

- 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/csr

[01]

[02]

[03]

[04]

**AllSpec disposable tips for BETA 400, BETA 200, K180, mini 3000 F.O. and mini 3000 otoscopes**

| | |
|---|---|
| pack of 1,000 pcs. Ø 2.5 mm (infants) [01] | **B-000.11.128** |
| pack of 1,000 pcs. Ø 4 mm (adults) | **B-000.11.127** |
| case of 10 packs of 1,000 pcs, Ø 2,5 mm (infants) | **B-000.11.138** |
| case of 10 packs of 1,000 pcs, Ø 4 mm (adults) | **B-000.11.137** |
| dispenser pack, single, of 250 tips, Ø 2.5 mm (infants) [02] | **B-000.11.153** |
| dispenser pack, single, of 250 tips, Ø 4 mm (adults) | **B-000.11.152** |
| case of 10 dispenser packs of 250 tips, Ø 2.5 mm (infants) | **B-000.11.151** |
| case of 10 dispenser packs of 250 tips, Ø 4 mm (adults) | **B-000.11.150** |

**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** |

**Tip adaptor for BETA 100* and K100***

| | |
|---|---|
| adaptor for AllSpec disposable tips for use with diagnostic otoscope (BETA 100, K100) [04] | **B-000.11.306** |

*Instrument no longer available.

⊗: Single use only.

## Reusable tips
## for the most secure fit

- **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

Ø 2,4 mm Ø 3 mm

Ø 4 mm Ø 5 mm

**Reusable tips for BETA 400, BETA 200, K180, mini 3000 F.O. and mini 3000 otoscopes**

| 1 set = 4 pcs. reusable tips (2.4 – 5 mm Ø) | | **B-000.11.111** |
|---|---|---|
| | **1 piece** | **50 pieces** |
| 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** |

## Further articles | accessories for otoscopes with fiber optic (F.O.) illumination

**Soft disposable tips: Fits over the end of the tip** to protect the auditory canal

| | |
|---|---|
| soft disposable tip Ø 3 mm, 40 pcs. \| 1 pack | **B-000.11.141** |
| soft disposable tip Ø 5 mm, 40 pcs. \| 1 pack | **B-000.11.142** |

: Single use only.

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

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

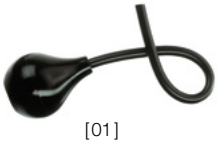
| **K180 LED F.O. otoscope head** | **2.5 V LED** | **3.5 V LED** |
|---|---|---|
| with 4 reusable tips, without handle | **B-001.11.551** | **B-008.11.551** |
| without handle and accessories | **B-001.11.550** | **B-008.11.550** |

| **mini 3000 F.O. otoscope head** | **2.5 V XHL** | **2.5 V LED** |
|---|---|---|
| without handle and 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.

| **LED$^{HQ}$ module** | **2.5 V LED** | **3.5 V LED** |
|---|---|---|
| for BETA 400, BETA 200 and K180 | **X-028.88.132** | **X-008.88.133** |

| **XHL xenon halogen spare bulb** | **2.5 V XHL** | **3.5 V XHL** |
|---|---|---|
| for mini 3000 F.O. | **X-001.88.105** | **–** |


[01]

[02]

**Insufflation bulb for pneumatic testing**

| | |
|---|---|
| insufflation bulb for BETA 400, BETA 200, K180, BETA 100*, K100* [01] | **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 [02] | **D-000.80.101** |

*Instrument no longer available.

## HEINE mini 3000® otoscope
## HEINE quality in pocket format, with direct illumination

Compact otoscope with improved xenon halogen (XHL) illumination. Exclusive design. Sturdy housing. Always close to hand. Available in black or blue. It is impossible to get much more in such a small housing. Except maybe in the mini 3000 LED otoscope.

**INTUITIVE OPERABILITY**

- Always close to hand with practical attachment clip
- Switches off automatically as soon as it is clipped to the pocket
- Easy instrumentation. Viewing window fixed and can be swivelled to the side
- Sturdy and non-slip due to a high-quality handle housing

**DETAILED VIEW**

- Eliminates reflections due to the head's black inner coating
- High-resolution images
- 3x magnification
- Natural colour rendering

**FLEXIBLE POWER SOURCE OPTIONS**

- Rechargeable battery: with mini NT table charger
- Replaceable batteries

- Practical and expandable with other mini 3000 instrument heads

- **A tip for a better future.** HEINE AllSpec disposable tips – made of recycled plastic. Read more on page 15

## HEINE mini 3000® otoscope
## Diagnostic sets | kits

[01]

[02]

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

| | 2.5V 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** |

- Available in black or blue. Please specify the colour you prefer when ordering. If not otherwise specified, we will supply black instruments.
- You can find information on our combined diagnostic sets and kits on pages 72 to 76.
- To upgrade to a rechargeable instrument with mini NT table charger, please see page 158.

# Further articles | accessories for HEINE otoscopes

| mini 3000 otoscope head | 2.5 V XHL |
|---|---|
| without handle and 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.

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

**Reusable specula for BETA 100* and K100***

Ø 2,2 mm [01]

Ø 10 mm [02]

| | |
|---|---|
| 1 set = 5 ear specula, 1 nose speculum | B-000.11.221 |
| 3 ear specula Ø 3.5 \| 4.5 \| 5.5 mm | B-000.11.222 |
| ear speculum Ø 2.2 mm [01] | 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 [02] | B-000.11.220 |

Ø 2,5 mm [03]

[04]

**UniSpec disposable specula for BETA 100* and K100***

| | |
|---|---|
| pack of 1,000, Ø 2.5 mm (infants) 1,000 pcs. \| 1 pack [03] | B-000.11.242 |
| pack of 1,000, Ø 4 mm (adults) 1,000 pcs. \| 1 pack | B-000.11.241 |
| UniSpec tip dispenser [04] | B-000.11.146 |

*Instrument no longer available.

: Single use only.

## Tongue-blade holder for wooden tongue-blades

- **XHL xenon halogen technology.** Concentrated illumination of oral cavity and pharynx
- **Light-guide for bulb.** Avoids dazzle

| Kit includes: tongue-blade holder with | 2.5V XHL | 3.5V XHL |
|---|---|---|
| BETA battery handle | **B-015.10.118** | – |
| BETA4 USB rechargeable handle with USB cord and plug-in power supply | – | **B-015.27.388** |

## 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.** Finger-tip pressure releases the used blade. No need to touch used blades
- **Only for HEINE disposable plastic tongue-blades.** Strong and hygienic

| Kit includes: tongue-blade holder with | 2.5V XHL | 3.5V XHL |
|---|---|---|
| BETA battery handle | **B-016.10.118** | – |
| BETA4 USB rechargeable handle with USB cord and plug-in power supply | – | **B-016.27.388** |

## HEINE mini 3000® tongue-blade holder with blade ejector for HEINE disposable tongue-blades

- **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.** Durable and hygienic

| Kit includes: mini 3000 tongue-blade holder with | 2.5 V XHL |
|---|---|
| mini 3000 battery handle* (with batteries),<br>5 disposable blades | **D-001.74.118** |

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

## Further articles | accessories for HEINE tongue-blade holder

| Tongue-blade holder head for wooden tongue-blades | 2,5V XHL | 3,5V XHL |
|---|---|---|
| without handle and 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 accessories | B-001.12.305 | B-002.12.305 |

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

| XHL xenon halogen spare bulb | 2.5V XHL | 3.5V XHL |
|---|---|---|
| for tongue-blade holder | X-001.88.037 | X-002.88.049 |
| for mini 3000 tongue-blade holder | X-001.88.037 | – |

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

| Disposable plastic tongue-blades | |
|---|---|
| pack of 100 disposable plastic tongue-blades | B-000.12.304 |

# HEINE mini-c hand-held examination light| mini-e ear light

[01] [02]

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)

| mini-c\|mini-e kits | LED |
|---|---|
| **mini-c hand-held examination light**<br>incl. batteries [01] | **D-008.73.109** |
| **mini-e ear light**<br>incl. batteries [02] for otoplasty. The ear light is used to ensure that hearing aids fit correctly. | **D-008.73.103** |

## 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. See order information accessories on page 27

[01] [02]

| mini 3000 clip lamp with | 2.5 V XHL |
|---|---|
| mini 3000 battery handle (with batteries) [01] | D-001.73.131 |

- 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 158.

## 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 with | 2.5 V XHL |
|---|---|
| mini 3000 battery handle (with batteries) and 5 disposable blades | D-001.76.120 |

- 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 158.

## Further articles | accessories for HEINE pocket diagnostic lights

| mini 3000 clip lamp head | 2.5 V XHL |
|---|---|
| without handle and accessories | D-001.73.130 |

| mini 3000 combi lamp head | 2.5 V XHL |
|---|---|
| without handle and accessories* | D-001.76.101 |

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

| XHL xenon halogen spare bulb | 2.5 V XHL |
|---|---|
| for mini 3000 clip lamp and combi lamp | X-001.88.107 |

| Ear light for mini 3000 clip lamp | |
|---|---|
| ear light, 6 pieces in blister pack | D-000.73.105 |

| Disposable tongue-blades for mini 3000 combi lamp | |
|---|---|
| pack of 100 disposable tongue-blades | B-000.12.304 |

▶ For information on HEINE mini 3000 battery and rechargeable handles, see pages 157-158.

# HEINE veterinary ENT diagnostic instruments
## Overview

It goes without saying that all of our special veterinary instruments are premium products. But, still, they differ in one or two details. Read on for a summary of what these different details are and all their benefits:

| | **G100 slit illumination head** | **BETA 200 VET F.O. otoscope** |
|---|---|---|
| Housing construction | metal | |
| Magnification | 1,6 x | 2,5 x |
| Illumination | F.O. LED[HQ] | |
| Instrument size | professional | |
| Handle options \| power sources | battery handle, USB rechargeable handle, rechargeable handle with table charger, EN 200 \| EN 200-1 | |
| Tips \| specula | long, closed specula, slit metal specula, open, short, closed specula, UniSpec VET disposable tips with adaptor | VET reusable specula |
| Pneumatic testing of tympanum mobility | – | insufflation port available |
| Catalogue page | 29 | 31 |

## HEINE G100 LED slit illumination head with LED illumination in HEINE Quality

Unimpaired working during the examination. Can be combined with different specula as attachments. Head with solid metal design and scratch-proof swivel lens, guaranteeing a long instrument life and high-quality patient assessments. Particularly bright illumination due to LED[HQ] (no need to ever exchange the LED).

**QUICK OVERVIEW**

- Ideal for instrumentation with magnification and illumination due to slit head design
- 1.6x magnification
- Natural colour rendering
- Homogeneous exposure due to fiber-optic technology
- Particularly bright due to LED[HQ]

**EXTREME DURABILITY**

- Solid metal housing
- Scratch-proof swivel lens
- Consistently good view over many years. No need to ever exchange the LED thanks to LED[HQ]
- Specula fit securely due to double locking mechanism

**INTUITIVE OPERABILITY**

- Practical one-finger operation
- Always the ideal light intensity due to patented and continuous brightness control
- Safe, hygienic reprocessing

**FLEXIBLE POWER SOURCE OPTIONS**

- Rechargeable handle: with USB or table charger
- Full functionality of the G100 LED slit illumination head is guaranteed with the current BETA rechargeable handles and the EN 200 | EN 200-1 wall transformers

- Practical and expandable with other HEINE instrument heads

# HEINE G100 LED slit illumination head
## Diagnostic sets | kits

[01]

**Set includes: G100 LED 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), hard case

| | 2.5V LED | 3.5V LED |
|---|---|---|
| BETA battery handle [01] | G-112.10.118 | – |
| BETA4 USB rechargeable handle with USB cord and plug-in power supply | – | G-112.28.388 |
| BETA4 NT rechargeable handle with NT4 table charger | – | G-112.24.420 |

[02]

| Kit includes: G100 LED slit illumination head with | 3.5V LED |
|---|---|
| BETA4 USB rechargeable handle with USB cord and plug-in power supply [02] | G-010.28.388 |
| BETA4 NT rechargeable handle with NT4 table charger | G-010.24.420 |


- For information on our combined diagnostic sets and kits see pages 72-76.
- For information on HEINE battery and rechargeable handles and the EN 200 wall transformer, see pages 148-157.

## HEINE BETA® 200 LED VET F.O. otoscope
## Our best otoscope for veterinary medicine with LED$^{HQ}$

The ideal instrument for examining disorders of the ear canal in animals. Exceptional durability combined with optimum magnification. Particularly bright illumination due to LED$^{HQ}$. HEINE BETA VET otoscopes are the result of ongoing optimisation and further development down to the smallest detail – where we leave nothing to chance.

**QUICK OVERVIEW**

- Very good spatial representation due to glass lenses developed specifically for veterinary medicine
- 2.5x magnification
- Natural colour rendering
- Even and reflex-free illumination due to fiber-optic technology
- Particularly bright due to LED$^{HQ}$

**EXTREME DURABILITY**

- Solid metal housing
- Scratch-proof, large viewing window
- Consistently good view over many years. No need to ever exchange the LED thanks to LED$^{HQ}$

**INTUITIVE OPERABILITY**

- Practical one-finger operation
- Always the ideal light intensity due to patented and continuous brightness control
- Easy instrumentation due to fixed, swivelling viewing window
- Safe, hygienic reprocessing
- Pneumatic eardrum testing by means of an integrated insufflation port

**FLEXIBLE POWER SOURCE OPTIONS**

- Rechargeable handle: with USB or table charger
- Full functionality of the BETA 200 LED VET is guaranteed with the current BETA rechargeable handles and the EN 200 | EN 200-1 wall transformers

- Practical and expandable with other HEINE instrument heads

▶ See order information on page 36.

## Long, closed metal specula

[01] 57 mm Ø 4 mm

[02] 170 mm Ø 10 mm

- **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 [01] | **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 [02] | **G-000.21.350** |

## Slit, open metal specula

65 mm Ø 6 mm

90 mm Ø 7 mm

- **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** |

# 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
- **Matte internal surfaces.** Reduced reflexes
- **Integral metal ring with 2 bayonet locks.** Firm mounting of specula to head

[01] Ø 2,2 mm [02] Ø 5,5 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 [01] | **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 [02] | **G-000.21.314** |

*Instrument no longer available.

## HEINE reusable VET specula

A VET adaptor [03] 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. Common germicides can be used
  Autoclavable at up to 134 °C
- **Ergonomic shape.** Painless atraumatic insertion
- **Convenient fixation system.** Positive fit to otoscope head
- **Double bayonet fitting.** Positive fit

[01] Ø 4 mm [02] Ø 9 mm

[03]

**Reusable SANALON S specula for BETA 200 VET|BETA 100 VET***

| | |
|---|---|
| 1 set = 3 reusable SANALON S specula | **G-000.21.213** |
| 61 mm long, Ø 4 mm [01] | **G-000.21.210** |
| 61 mm long, Ø 6 mm | **G-000.21.211** |
| 61 mm long, Ø 9 mm [02] | **G-000.21.212** |
| Adaptor for reusable SANALON S VET specula [03] | **G-000.21.214** |

## HEINE UniSpec® disposable specula

Ø 2,5 mm

[04]

[05]

The adaptor illustrated [04] 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 1,000.** Assures a competitive price
- **Original HEINE design and manufacture.** Guaranteed good fit to the instrument head

**UniSpec disposable specula for BETA 100 VET*, operating otoscope* and G100|G100 LED slit illumination head**

| | |
|---|---|
| Pack of 1,000 UniSpec disposable specula Ø 2.5 mm | **B-000.11.242** |
| Pack of 1,000 UniSpec disposable specula Ø 4 mm | **B-000.11.241** |
| Adaptor for use with slit illumination head [04] | **G-000.21.302** |
| UniSpec tip dispenser [05] | **B-000.11.146** |

*Instrument no longer available.

⊗: Single use only.

# Further articles | accessories for veterinary ENT diagnostic instruments

[01] Ø 2,2 mm

[02] Ø 10 mm

**Reusable specula for operating otoscope***

| | |
|---|---|
| 1 set = 5 ear specula and 1 nose speculum | **B-000.11.221** |
| 3 ear speculum Ø 3.5 \| 4.5 \| 5.5 mm | **B-000.11.222** |
| ear speculum Ø 2.2 mm [01] | **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 [02] | **B-000.11.220** |

Ø 2,5 mm Ø 4 mm

**AllSpec disposable tips made of recycled plastic for BETA 100 VET* and operating otoscope***

| | |
|---|---|
| pack of 1,000 pcs. Ø 2.5 mm [03] | **B-000.11.128** |
| pack of 1,000 pcs. Ø 4 mm | **B-000.11.127** |
| case of 10 packs of 1,000 pcs, Ø 2.5 mm (infants) | **B-000.11.138** |
| case of 10 packs of 1,000 pcs, Ø 4 mm (adults) | **B-000.11.137** |
| dispenser pack, single, of 250 tips, Ø 2.5 mm [04] | **B-000.11.153** |
| dispenser pack, single, of 250 tips, Ø 4 mm | **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** |
| adaptor for AllSpec tips [05] | **B-000.11.306** |
| AllSpec tip-dispenser (2 x 50 tips) [06] | **B-000.11.149** |

[03]

[04]

[05]

[06]

*Instrument no longer available.

Ⓧ: Single use only.

## Further articles | accessories for veterinary ENT diagnostic instruments

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

| BETA 200 VET LED F.O. otoscope head | 2.5V LED | 3.5V LED |
|---|---|---|
| without handle, without accessories | G-001.21.250 | G-008.21.250 |

| LED$^{HQ}$ module | 2.5V LED | 3.5V LED |
|---|---|---|
| for G100 and BETA 200 VET | X-028.88.132 | X-008.88.133 |

| 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 | B-000.11.240 |

▶ For information on HEINE battery and rechargeable handles and the EN 200 wall transformer, see pages 148-157.

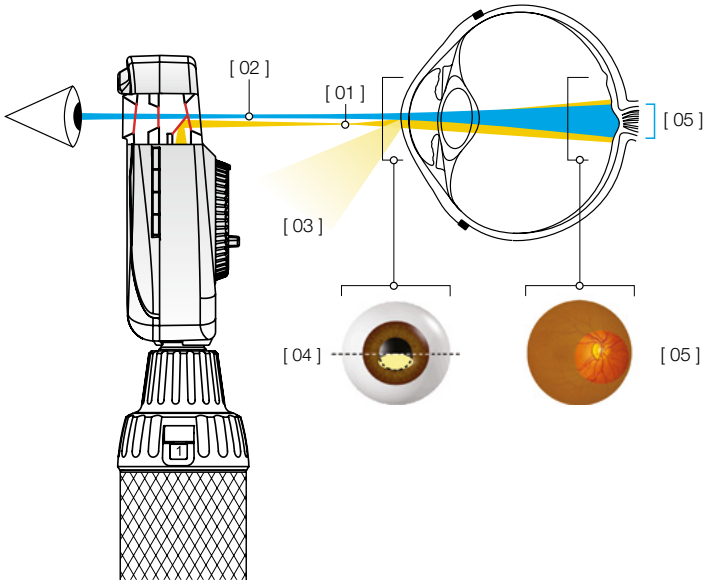
**Helping the human eye.**

## HEINE direct ophthalmoscopes
## Overview

It goes without saying that all of our ophthalmoscopes are premium products. But, still, they differ in one or two details. Read on for a summary of what these different details are and all their benefits:

| | BETA 200S | BETA 200 | K180 Opt. 1 | K180 Opt. 2 | mini 3000 |
|---|---|---|---|---|---|
| Optical system | aspherical | | conventional | | |
| Illumination | LED[HQ] | | | | XHL or LED[HQ] |
| Apertures | | | | | |
| Corrective lenses | - 36 to + 38 D, 74 single diopter steps, 28 lenses | - 35 to + 40 D, 27 diopter steps, 27 lenses | | | - 20 to + 20 D, 18 diopter steps, 18 lenses |
| Dust protection | dustproof | | dust protected | | |
| Frame system made of | aluminium | | plastic | | |
| Instrument size | professional | | | | compact |
| Handle options \| power sources | battery handle, USB rechargeable handle, rechargeable handle with table charger, EN 200 \| EN 200-1 | | | | battery handle, rechargeable handle with table charger |
| Catalogue page | 40 | 42 | 44 | | 46 |

## The „Aspherical Optical System“ (AOS) from HEINE




„Aspherical Optical System“ (AOS) exclusively from HEINE eliminates corneal and iris reflexes to provide large, crisp and glare-free fundus images.

- Flat, elliptical illumination beam produced by HEINE’s aspherical optical system [01]
- Observation path [02]
- Redirected iris and corneal reflexes [03]
- 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 [04]
- Once past the anterior chamber, the light beam opens up dramatically to illuminate a large area of the retina [05]

HEINE AOS film

# HEINE BETA® 200S LED ophthalmoscope with outstanding durability, perfect for small pupils

Accurate diagnosis at first glance. Direct ophthalmoscope with special optical system that provides a particularly clear and bright image of the fundus. Sturdy and handy – ideal for mobile use. 7 different apertures – always the right setting for different examination situations. Particularly bright and dimmable due to LED$^{HQ}$ with virtually unlimited working life – no need to ever exchange the LED.

**RELIABLE DIAGNOSIS**

- Clear, bright and non-reflective image due to AOS (Aspherical Optical System)
- No light reflections, since the illumination beam and the observation path are separate
- The instrument head fits precisely to the eye socket, blocking out ambient light
- Very good refractive compensation due to 74 single step design on the non-continuous lens wheel (- 36 to + 38 D)
- This prevents extreme jumps from one dioptre to another
- Can be used for both dilated and non-dilated or particularly small pupils due to the pinhole aperture
- 7 different apertures – can also be used with red-free filter

**OPTIMUM ILLUMINATION**

- Patented and exclusive continuous dimmability between 3 and 100 %
- No stray light thanks to the recessed, multi-coated viewing window
- Helpful when examining cloudy lenses, as LED$^{HQ}$ provides particularly bright illumination

**EXCEPTIONAL DURABILITY**

- Maintenance-free use due to dustproof design
- Impact-resistant due to a cast aluminium frame that the optical components are embedded in
- No need to ever exchange the LED thanks to LED$^{HQ}$
- 5-year guarantee

**EASY TO USE**

- Instrument can be operated with one hand
- Flexibility during the examination due to the ergonomic design

**FLEXIBLE POWER SOURCE OPTIONS**

- Rechargeable battery: with USB or table charger
- Full functionality of the BETA 200S LED is guaranteed with the current BETA rechargeable handles and the EN 200 | EN 200-1 wall transformers

**BETA 200S with 7 apertures**

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

With red-free filter

# HEINE BETA® 200S LED ophthalmoscope
## Diagnostic sets|kits

[01]

**Set includes: BETA 200S LED ophthalmoscope,**
hard case

| | 2.5V LED | 3.5V LED |
|---|---|---|
| BETA battery handle [01] | **C-261.10.118** | – |
| BETA4 USB rechargeable handle with USB cord and plug-in power supply | – | **C-261.28.388** |
| BETA4 NT rechargeable handle with NT4 table charger | – | **C-261.24.420** |

[02]

**BETA 200S LED ophthalmoscope with**

| | 3.5V LED |
|---|---|
| BETA4 USB rechargeable handle with USB cord and plug-in power supply [02] | **C-010.28.388** |

[03]

**Set includes: BETA 200S LED ophthalmoscope and BETA 200 LED streak retinoscope,** hard case

| | 2.5V LED | 3.5V LED |
|---|---|---|
| BETA battery handle [03] | **C-262.10.118** | – |
| BETA4 USB rechargeable handle with USB cord and plug-in power supply | – | **C-262.28.388** |
| BETA4 NT rechargeable handle with NT4 table charger | – | **C-262.24.420** |


- For further information on the HEINE BETA 200 LED retinoscope, please see page 49.
- You can find information on our combined diagnostic sets and kits on pages 72 to 76.
- For information on HEINE battery and rechargeable handles and the EN 200 wall transformer, see pages 148-157.

# HEINE BETA® 200 LED ophthalmoscope with outstanding durability

Accurate diagnosis at first glance. Direct ophthalmoscope with special optical system that provides a particularly clear and bright image of the fundus. Sturdy and handy – ideal for mobile use. 6 different apertures – always the right setting for different examination situations. Particularly bright and dimmable due to LED$^{HQ}$ with virtually unlimited working life – no need to ever exchange the LED.

**RELIABLE DIAGNOSIS**

- Clear, bright and non-reflective image due to AOS (Aspherical Optical System)
- No light reflections, since the illumination beam and the observation path are separate
- The instrument head fits precisely to the eye socket, blocking out ambient light
- Good refractive compensation due to 27 single step design on the non-continuous lens wheel (- 35 to + 40 D)
- 6 different apertures – can also be used with red-free filter

**OPTIMUM ILLUMINATION**

- Patented and exclusive continuous dimmability between 3 and 100 %
- No stray light thanks to the recessed, multi-coated viewing window
- Particularly bright due to LED$^{HQ}$

**EXCEPTIONAL DURABILITY**

- Maintenance-free use due to dustproof design
- Impact-resistant due to a cast aluminium frame that the optical components are embedded in
- No need to ever exchange the LED thanks to LED$^{HQ}$
- 5-year guarantee

**EASY TO USE**

- Instrument can be easily operated with one hand
- Flexibility during the examination due to the ergonomic design

**FLEXIBLE POWER SOURCE OPTIONS**

- Rechargeable battery: with USB or table charger
- Full functionality of the BETA 200 LED is guaranteed with the current BETA rechargeable handles and the EN 200 | EN 200-1 wall transformers

**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 LED ophthalmoscope
## Diagnostic sets|kits

[01]

**Set includes: BETA 200 LED ophthalmoscope,**
hard case

| | 2.5V LED | 3.5V LED |
|---|---|---|
| BETA battery handle [01] | **C-144.10.118** | – |
| BETA4 USB rechargeable handle with USB cord and plug-in power supply | – | **C-144.28.388** |
| BETA4 NT rechargeable handle with NT4 table charger | – | **C-144.24.420** |

[02]

**Kit includes: BETA 200 LED ophthalmoscope with**

| | 2.5V LED | 3.5V LED |
|---|---|---|
| BETA battery handle [02] | **C-011.10.118** | – |
| BETA4 USB rechargeable handle with USB cord and plug-in power supply | – | **C-011.28.388** |

[03]

**Set includes: BETA 200 LED ophthalmoscope and BETA 200 LED streak retinoscope,** hard case

| | 2.5V LED | 3.5V LED |
|---|---|---|
| BETA battery handle [04] | **C-145.10.118** | – |
| BETA4 USB rechargeable handle with USB cord and plug-in power supply | – | **C-145.28.388** |
| BETA4 NT rechargeable handle with NT4 table charger | – | **C-145.24.420** |


- For further information on the HEINE BETA 200 LED retinoscope, please see page 49.
- You can find information on our combined diagnostic sets and kits on pages 72 to 76.
- For information on HEINE battery and rechargeable handles and the EN 200 wall transformer, see pages 148-157.

NEW

# HEINE K180 LED ophthalmoscope

## Standard instrument for a smaller budget

Sturdy ophthalmoscope with XHL (xenon halogen illumination) and low-reflection optics for reliable diagnosis. Bright, white light, for a clear image of the fundus. High functionality and good value for money.

**RELIABLE DIAGNOSIS**

- Low-reflection view due to spherical precision optics
- Ambient light is blocked out thanks to the instrument head's precise fit to the eye socket
- Good refractive compensation due to 27 single step design on the non-continuous lens wheel (- 35 to + 40 D)
- 5 different apertures in 2 variants

**EXCELLENT ILLUMINATION**

- Can be used for both dilated and non-dilated pupils
- Particularly bright due to LED$^{HQ}$

**HIGH DURABILITY**

- Dustproof, sturdy polycarbonate housing
- 5-year guarantee

**FLEXIBLE POWER SOURCE OPTIONS**

- Rechargeable battery: with USB or table charger
- EN 200 | EN 200-1 wall transformer
- Replaceable batteries

**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

NEW

# HEINE K180 LED ophthalmoscope
## Diagnostic sets | kits

[01]

**Set includes: K180 LED ophthalmoscope** with aperture wheel 1, soft pouch

| | 2.5 V LED | 3.5 V LED |
|---|---|---|
| BETA battery handle [01] | **C-182.10.118** | – |
| BETA4 USB rechargeable handle with USB cord and plug-in power supply | – | **C-182.28.388** |

[02]

**Set includes: K180 LED ophthalmoscope** with aperture wheel 2, soft pouch

| | 2.5 V LED | 3.5 V LED |
|---|---|---|
| BETA battery handle [02] | **C-183.10.118** | – |
| BETA4 USB rechargeable handle with USB cord and plug-in power supply | – | **C-183.28.388** |


- You can find information on our combined diagnostic sets and kits on pages 72 to 76.
- For information on HEINE battery and rechargeable handles and the EN 200 wall transformer, see pages 148-157.

## HEINE mini 3000® LED ophthalmoscope
## Maximum quality with minimum dimensions

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

Modern pocket ophthalmoscope with LED[HQ]. Concentrated, bright light for optimum illumination, a brilliant image and authentic colour rendering. Fixation star aperture with grey filter to reduce light intensity. Excellent optics and outstanding colour rendering with the smallest dimensions – perfect for when you're out and about and on your rounds. Can be combined with the mini 3000 handle system. Available in black or blue.

**RELIABLE DIAGNOSIS**

- Simple examination process possible without pupil dilation
- Clear, high-resolution image with minimal reflections
- 18 lenses ranging from - 20 to + 20 D prevent higher refractive errors
- Fixation star including grey filter for patients who are sensitive to light
- 5 different apertures

**INTUITIVE OPERABILITY**

- Switches off automatically as soon as it is clipped to the pocket
- Practical one-finger operation
- Handle and head are in 2 parts – for easy servicing and expandability

**FLEXIBLE POWER SOURCE OPTIONS**

- Rechargeable battery with mini NT table charger
- Replaceable batteries

- **Also available with XHL xenon halogen illumination.**
  Bright illumination and authentic colour rendering; for other technical specifications see mini 3000 LED ophthalmoscope

## HEINE mini 3000® LED ophthalmoscope
## Diagnostic sets|kits

[01]

**Set includes: mini 3000 ophthalmoscope,** hard case

| | 2.5V XHL | 2.5V LED |
|---|---|---|
| mini 3000 battery handle (with batteries) [01] | **D-852.10.021** | **D-885.21.021** |

[02]

**Kit includes: mini 3000 ophthalmoscope** with

| | 2.5V XHL | 2.5V LED |
|---|---|---|
| mini 3000 battery handle (with batteries) [02] | **D-001.71.120** | **D-008.71.120** |
| mini 3000 rechargeable handle<br>(please order mini NT table charger separately) | **–** | **D-008.71.200** |

- You can find information on our combined diagnostic sets and kits on pages 72 to 76.
- 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 158.

# HEINE ophthalmoscopes
## Further articles | accessories

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

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

| K180 LED ophthalmoscope head | 2.5 V LED | 3.5 V LED |
|---|---|---|
| with aperture wheel 1, without handle\|accessories | C-001.30.206 | C-008.30.206 |
| with aperture wheel 2, without handle\|accessories | C-001.30.207 | C-008.30.207 |

| mini 3000 ophthalmoscope head | 2.5 V XHL | 3.5 V LED |
|---|---|---|
| without handle and 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.

| LED$^{HQ}$ module | 2.5 V LED | 3.5 V LED |
|---|---|---|
| for BETA 200S and BETA 200 | X-028.88.134 | X-008.88.135 |

| XHL xenon halogen spare bulb | 2.5 V XHL | 3.5 V XHL |
|---|---|---|
| for mini 3000 | X-001.88.106 | – |

▶ For information on HEINE battery and rechargeable handles and the EN 200 wall transformer, see pages 148-157.

## HEINE BETA® 200 LED retinoscope with HEINE ParaStop®
## Quick and easy observation of the fundus reflex

Hand-held retinoscope for objective refraction with totally even LED[HQ] illumination for a precise streak. Enables quick and easy recognition of the fundus reflex.

**RELIABLE DIAGNOSIS**

- Reliable measurement of the eye's refraction
- Precise adjustment of the parallel beam path due to ParaStop
- Very bright and clearly visible fundus reflex due to a very bright, precise streak with a line width of typically 1.1 mm (ISO 12865 standard < 1.5 mm) and a line length of 35 mm
- Particularly bright and even light due to LED[HQ]
- Patented and exclusive continuous dimmability between 3 and 100 %
- Polarisation filter eliminates stray light and internal reflections
- Minimised light leaks due to good eye socket coverage

**ENHANCED DURABILITY**

- Exceptional durability due to metal controls
- Maintenance-free and dustproof
- LED[HQ] with virtually unlimited working life
- 5-year guarantee

**INTUITIVE OPERABILITY**

- Practical one-finger operation
- Convenient thumb operation with a single control for vergence and line rotation
- Holder for fixation cards for dynamic retinoscopy (optional)

**FLEXIBLE POWER SOURCE OPTIONS**

- Rechargeable battery: with USB or table charger
- Full functionality of the BETA 200 LED is guaranteed with the current BETA rechargeable handles and the EN 200 | EN 200-1 wall transformers

# HEINE BETA® 200 LED retinoscope
## Diagnostic sets|kits

[01]

**Set includes: BETA 200 LED streak retinoscope,** hard case

| | 2.5V LED | 3.5V LED |
|---|---|---|
| BETA battery handle | **C-034.10.118*** | – |
| BETA4 USB rechargeable handle with USB cord and plug-in power supply [01] | – | **C-034.28.388** |
| BETA4 NT rechargeable handle with NT4 table charger | – | **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

[02]

**Kit includes: BETA 200 LED streak retinoscope**

| | 2.5V LED | 3.5V LED |
|---|---|---|
| BETA battery handle | **C-014.10.118** | – |
| BETA4 USB rechargeable handle with USB cord and plug-in power supply [02] | – | **C-014.28.388** |

[03]

**Set includes: BETA 200S LED ophthalmoscope and BETA 200 LED streak retinoscope,** hard case

| | 2.5V LED | 3.5V LED |
|---|---|---|
| BETA battery handle [03] | **C-262.10.118** | – |
| BETA4 USB rechargeable handle with USB cord and plug-in power supply | – | **C-262.28.388** |
| BETA4 NT rechargeable handle with NT4 table charger | – | **C-262.24.420** |

[04]

**Set includes: BETA 200 LED ophthalmoscope and BETA 200 LED streak retinoscope,** hard case

| | 2.5V LED | 3.5V LED |
|---|---|---|
| BETA battery handle [04] | **C-145.10.118** | – |
| BETA4 USB rechargeable handle with USB cord and plug-in power supply | – | **C-145.28.388** |
| BETA4 NT rechargeable handle with NT4 table charger | – | **C-145.24.420** |

## HEINE HSL 150 hand-held slit lamp
## The lightest slit lamp of its kind

Portable hand-held slit lamp for examining the anterior segment of the eye. Compact and lightweight – ideal for situations in which a conventional slit lamp is not available or is impractical. For human and veterinary medicine.

**RELIABLE DIAGNOSIS**

- Continuously variable gap size from 0.2 mm x 10 mm to 4 mm x 14 mm
- Detailed view due to 6 x magnification
- Switchable blue interference filter (FITC) for examining the cornea
- Optimum light transmission due to multi-coated optics
- Precise view due to particularly bright, white light – comparable to the light intensity of a classic slit lamp
- Xenon halogen illumination XHL

**LIGHTWEIGHT AND PORTABLE**

- The head weighs only approx. 70 g
- Ideal for home visits and flexible use

**FLEXIBLE POWER SOURCE OPTIONS**

- Rechargeable battery with table charger
- Replaceable batteries

[01]

**Set includes: HSL 150 hand-held slit lamp,** soft pouch

| | 2.5 V XHL |
|---|---|
| BETA SLIM battery handle [01] | C-252.10.105 |

[02]

**Set includes: HSL 150 hand-held slit lamp,** spare bulb, hard case

| | 3.5 V XHL |
|---|---|
| BETA4 SLIM NT rechargeable handle and NT4 table charger* [02] | C-266.20.471 |

*NT4 table charger incl. reducer insert

▶ For information on HEINE battery and rechargeable handles and the EN 200 wall transformer, see pages 148-157.

# HEINE LAMBDA 100 retinometer
## A precision instrument for looking into the future

High diagnostic reliability and easy handling. The LAMBDA 100 retinometer is the first compact instrument for determining a patient's potential visual acuity after surgery to treat cataracts or other opacities.

**SIMPLE AND SAFE DIAGNOSIS**

- Glare-free examination due to brightness control
- Easy examination due to clear controls
- Three steps to determine potential visual acuity:
  - Switch on the instrument, select the visual acuity level, set the line pattern, and darken the room
  - Rest the retinometer against the patient's forehead. Search for a gap in the cloudy media by moving the red dots of light until the patient recognises the line pattern
  - Make the lines finer and finer – by changing the orientation – until the patient can no longer distinguish between them. The last value the patient recognises is their potential visual acuity
- Xenon halogen illumination XHL
- Available in two configurations: Kit 1 with 20 | 300 to 20 | 25 fraction scale (scale 2), Kit 2 with 0.06 to 0.8 decimal scale (scale 1)

**LIGHTWEIGHT AND PORTABLE**

- Compact dimensions
- Flexible use – also for bedridden patients, for example

**PRACTICAL CHARGING OPTION**

- USB rechargeable handle with USB 2.0 cord and plug-in power supply

**Kit includes: Kit enthält: LAMBDA 100 retinometer,**
1 patient card, BETA4 USB rechargeable handle with USB cord and plug-in power supply, spare bulb

| | 3.5 V XHL |
|---|---|
| kit 1: acuity scale 20\|300 to 20\|25 (scale 2) | C-037.27.388 |
| kit 2: decimal scale 0.06 to 0.8 (scale 1) | C-038.27.388 |

## 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**

**Kit includes: ophthalmic examination lamp with**

| | 3.5 V XHL |
|---|---|
| BETA4 USB rechargeable handle<br>with USB cord and plug-in power supply [01] | C-018.27.388 |

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

[01]

- For information on HEINE battery and rechargeable handles and the EN 200 wall transformer, see pages 148-157.

## HEINE Finoff transilluminator
## For scleral transillumination

[01]

**Detachable cobalt blue filter, suitable for fluorescence examinations.**
Finoff transilluminator for scleral transillumination with

| | 3.5 V LED |
|---|---|
| BETA4 USB rechargeable handle with USB cord and plug-in power supply [01] | C-019.27.388 |
| BETA4 NT rechargeable handle (without NT4 table charger) | C-019.23.396 |

# Further articles | accessories
# HEINE ophthalmic instruments

[01]

| BETA 200 LED retinoscope head | 2.5 V LED | 3.5 V LED |
|---|---|---|
| without handle [01] | C-001.15.353 | C-008.15.353 |

[02]

| Fixation cards for BETA 200 LED retinoscope | |
|---|---|
| fixation cards with holder for dynamic retinoscopy, without instrument [02] | C-000.15.360 |

[03]

| LED module | 2.5 V LED | 3.5 V LED |
|---|---|---|
| for BETA 200 retinoscope [03] | X-028.88.130 | X-008.88.131 |

[04]

| HSL 150 hand-held slit lamp head | | |
|---|---|---|
| without handle [04] | C-001.14.602 | C-002.14.602 |

| HSL 10 x loupe attachment for HSL 150 | |
|---|---|
| loupe attachment with 10 x magnification, without instrument [05] | C-000.14.606 |

[05]

| XHL xenon halogen spare bulb | 2.5 V XHL | 3.5 V XHL |
|---|---|---|
| for HSL 150 hand-held slit lamp [06] | X-001.88.098 | X-002.88.099 |

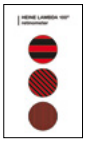
[06]

▶ For information on HEINE battery and rechargeable handles and the EN 200 wall transformer, see pages 148-157.

# Further articles | accessories
# HEINE ophthalmic instruments

[01]

| LAMBDA 100 retinometer head | 2.5 V XHL | 3.5 V XHL |
|---|---|---|
| with acuity scale 20|300 to 20|25 (scale 2), without handle [01] | 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 |



[02]

| Patient card for LAMBDA 100 retinometer | |
|---|---|
| patient card [02] | C-000.35.005 |

[03]

| Ophthalmic examination lamp head | 2.5 V XHL | 3.5 V XHL |
|---|---|---|
| without handle [03] | C-001.14.400 | C-002.14.400 |

[04]

| XHL xenon halogen spare bulb | 2.5 V XHL | 3.5 V XHL |
|---|---|---|
| for ophthalmic examination lamp [04] | X-001.88.032 | X-002.88.047 |

[05]

| Finoff transilluminator head | 3.5 V LED |
|---|---|
| Finoff for scleral transillumination, without handle [05] | C-002.17.080 |

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

▶ For information on HEINE battery and rechargeable handles and the EN 200 wall transformer, see pages 148-157.

## HEINE indirect ophthalmoscopes
## Overview

It goes without saying that all of our indirect ophthalmoscopes are premium products. But, still, they differ in one or two details. Read on for a summary of what these different details are and all their benefits:

| | OMEGA 600 | OMEGA 500 | SIGMA 250 | SIGMA 250 M2 |
|---|---|---|---|---|
| Convergence and parallax adjustment | synchronized | | separate | |
| Apertures | | | | |
| Integrated filters | | | red-free filter is integrated in aperture row | |
| Illumination | LED[HQ] | | | |
| Wearing options | headband | | S-FRAME spectacle frame | |
| Further articles | teaching mirror, fundus charts | | teaching mirror, blue filter and yellow filter, diffusor, fundus charts | |
| Product variants | – | with integrated camera | – | |
| Brightness control | on the instrument; visionBOOST | on the instrument | on the power source | |
| Mobile power supply \| operating time | rechargeable battery integrates into the headband \| typ. 8 hours | headband-mounted battery mPack UNPLUGGED typ. 7 hours, mPack typ. 13 hours | mPack mini typ. 11 hours | |
| Stationary power supply | CW1 wall charger, CC1 charging case, E4-USBC power supply | EN 50 table- or \| wall transformer, plug-in transformer | – | |
| Catalogue page | 60 | 62 | 64 | |

# HEINE OMEGA® 600 binocular 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

visionBOOST

## 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 LED$^{HQ}$ – 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

Red-free, yellow and cobalt blue filter

Diffuser HEINE, small spot, medium and large

## LONG-LASTING INVESTMENT DUE TO ITS ROBUST DESIGN

- Maintenance-free, dustproof optics
- Legendary HEINE durability
- 5-year guarantee

HEINE OMEGA 600 operation film

## 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**

# HEINE OMEGA® 600

## Sets | kits

[01]

[02]

[03]

[04]

[05]

[06]

| OMEGA 600 sets | LED |
|---|---|
| OMEGA 600 wall charger set:<br>indirect ophthalmoscope (with battery and +2 D eyepiece) [01],<br>E4-USBC [02], eyepiece 0 D*, CW1 wall charger [03] | **C-008.33.612** |
| OMEGA 600 traveller set:<br>indirect ophthalmoscope (with battery and +2 D eyepiece),<br>E4-USBC, eyepiece 0 D*, traveller bag [04] | **C-008.33.613** |
| OMEGA 600 student set:<br>indirect ophthalmoscope (with battery and +2 D eyepiece),<br>E4-USBC, eyepiece 0 D*, TM2 teaching mirror [05],<br>traveller bag | **C-008.33.614** |
| OMEGA 600 kit:<br>indirect ophthalmoscope (with battery and +2 D eyepiece),<br>E4-USBC, eyepiece 0 D* | **C-008.33.610** |
| OMEGA 600 charging set: CC1 charging case,<br>CB1 charging battery [06] | **X-000.99.090** |

*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).

# HEINE OMEGA® 500 LED indirect binocular ophthalmoscope
# The predecessor of the OMEGA 600

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

**Set includes: OMEGA 500, HC 50L headband rheostat,** connecting cord cinch, pad with 50 fundus charts, teaching mirror, in hard case

| | 6V LED |
|---|---|
| plug-in transformer for HC 50L headband rheostat | C-283.41.320 |
| mPack with plug-in transformer (incl. 90° angled adaptor) | C-283.41.670 |

**Set includes: OMEGA 500 UNPLUGGED,** HC 50L headband rheostat, pad with 50 fundus charts, teaching mirror, in hard case

| | 6V LED |
|---|---|
| mPack UNPLUGGED and plug-in transformer UNPLUGGED | C-284.41.670 |

[01]

**Kit includes: OMEGA 500 UNPLUGGED,** HC 50L headband rheostat. Without case

| | 6V LED |
|---|---|
| kit 5: Plug-in transformer UNPLUGGED, 1 x mPack UNPLUGGED | C-008.33.535 |
| kit 6: Wall unit EN 50 UNPLUGGED charger, 2 x mPack UNPLUGGED | C-008.33.536 |
| kit 7: Wall unit EN 50 UNPLUGGED charger, 1 x mPack UNPLUGGED [01] | C-008.33.537 |

- Carrying cases and storage cases may deviate in shape and colour.
- For information on HEINE EN 50 UNPLUGGED and mPack UNPLUGGED see page 161-162.

## HEINE OMEGA® 500 with DV1 digital video camera
## High-resolution digital imaging of the fundus

HEINE OMEGA 500 with DV1 film

### 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
- **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
- **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

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

## OMEGA 500
## with DV1 sets | kits

**Set includes: OMEGA 500 with DV1 digital video camera,**
HC 50L headband rheostat, USB 2.0 cord, pad with 50 fundus charts, in hard case

| | 6 V LED |
|---|---|
| mPack UNPLUGGED and plug-in transformer | C-176.41.670 |

**Kit includes: OMEGA 500 with DV1 digital video camera,**
HC 50L headband rheostat, USB 2.0 cord. Without case

| | 6 V LED |
|---|---|
| mPack UNPLUGGED with plug-in transformer | C-008.33.561 |
| 2 x mPack UNPLUGGED with EN 50 UNPLUGGED | C-008.33.562 |

# HEINE SIGMA® 250 indirect ophthalmoscope
# Spectacle-mounted ophthalmoscope – with LED$^{HQ}$ illumination

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.

- **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 compatible only with mPack mini
- **Extremely light,** 110 g without frame. Light and comfortable
- **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$^{HQ}$**
- **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 filter**
- **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

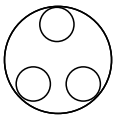
**SIGMA 250 apertures**

Large spot, small spot, red-free filter

**SIGMA 250 M2 apertures**

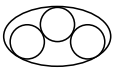
Large spot, pinhole, red-free filter

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

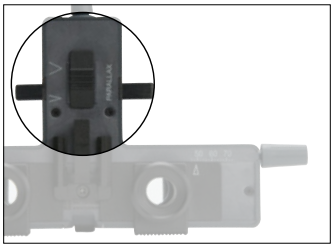


Large pupil

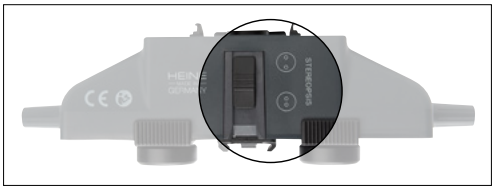
Small pupil



Peripheral view



Parallax adjustment



Convergence adjustment

▶ For further information on the mPack mini, please see page 165.

# HEINE SIGMA® 250

## Sets | kits

[01]

**Set includes: SIGMA 250 with S-FRAME spectacle frame,**
mPack mini with E4-USB plug-in transformer and USB cord,
mPack mini belt clip, teaching mirror, blue and yellow filters,
diffusor, retaining cord, case [01]

| | LED |
|---|---|
| SIGMA 250 | **C-281.41.671** |
| SIGMA 250 M2<br>(with micro spot aperture instead of small aperture) | **C-279.41.671** |

[02]

**Kit includes: SIGMA 250 with S-FRAME spectacle frame,**
mPack mini with E4-USB plug-in transformer and USB cord,
mPack mini belt clip, retaining cord [02]

| | LED |
|---|---|
| SIGMA 250 | **C-008.33.341** |
| SIGMA 250 M2<br>(with micro spot aperture instead of small aperture) | **C-008.33.346** |

▶ 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
- **+3D lens attachment.** An aid to accomodation, magnifies the image

## HEINE hand-held indirect ophthalmoscope
## MONOCULAR kits

**Hand-held indirect ophthalmoscope, MONOCULAR with**

| | 3.5V XHL |
|---|---|
| BETA4 USB rechargeable handle with USB cord and plug-in power supply | C-020.27.388 |
| BETA4 NT rechargeable handle with NT4 table charger [01] | C-020.23.420 |

[01]

- For information on HEINE battery and rechargeable handles and the EN 200 wall transformer, see pages 148-157.

## 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. 30 D \| Ø 46 mm | **C-000.17.231** |

[01]

## Combi case |
## hard case

[02]

Combi case respectively hard case for indirect binocular ophthalmoscopes.
Features a deep, dense foam insert to protect instruments.

**Combi case|hard case***

| | |
|---|---|
| OMEGA 600 traveller bag [01]<br>(Can be worn over the shoulder or as a backpack.) | **C-080.00.000** |

[03]

| | |
|---|---|
| combi case [02] for OMEGA 500 | **C-079.03.000** |
| hard case [03] for OMEGA 500 | **C-079.00.000** |

[04]

| | |
|---|---|
| case for SIGMA 250 (270 mm x 270 mm x 150 mm) [04] | **C-000.32.553** |

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

## Accessories for
## HEINE indirect ophthalmoscopes

[05]

**Fundus charts**

| | |
|---|---|
| pad with 50 pcs. [05] | **C-000.33.208** |

## Further articles | accessories
## HEINE indirect ophthalmoscopes

[01]

[02]

[03]

[04]

[04]

[05]

[06]

**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] | **C-080.00.000** |

▶ For information on HEINE power sources see pages 159-160.

## Further articles | accessories
## HEINE indirect ophthalmoscopes

| OMEGA 500 ophthalmoscope | 6 V LED |
|---|---|
| on headband with HC 50L headband rheostat and connecting cord cinch | C-008.33.502 |

**Accessories OMEGA 500 ophthalmoscope**

[01]

[02]

[03]

[04]

[05]

[06]

| | |
|---|---|
| upgrade-kit OMEGA 500 with LED module [01] and HC 50L [02] | X-008.16.325 |
| LED module for OMEGA 500 [01] | X-008.87.200 |
| HC 50L headband rheostat (without plug-in transformer) | X-095.16.325 |
| plug-in transformer for HC 50L headband rheostat | X-095.16.330 |
| teaching mirror [03] | C-000.33.209 |
| extension cord cinch-cinch, 2 m [04] | C-000.33.510 |
| connecting cord cinch to EN 50 charger \| mPack \| plug-in transformer for HC 50L, 1.6 m [05] | X-000.99.667 |
| extension cord from plug-in transformer UNPLUGGED to mPack UNPLUGGED, 2 m [06] | X-000.99.668 |
| USB 2.0 cord for OMEGA 500 with DV1 | X-000.99.206 |

▶ For information on HEINE power sources see pages 159-165.

## Further articles | accessories
## HEINE indirect ophthalmoscopes

| SIGMA 250 ophthalmoscope | LED |
|---|---|
| SIGMA 250 with S-FRAME, retaining cord | C-008.33.340 |
| SIGMA 250 M2 (with micro spot aperture instead of small aperture) with S-FRAME, retaining cord | C-008.33.345 |

[01]

[02] [03] [04]

[05] [06]

| Accessories SIGMA 250 ophthalmoscope | |
|---|---|
| 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 |

[07]

| Hand-held indirect ophthalmoscope, MONOCULAR | 3.5V XHL |
|---|---|
| with + 3 D lens attachment and orbit rest extension, without handle | C-002.33.001 |

| Accessories hand-held indirect ophthalmoscope, MONOCULAR | |
|---|---|
| + 3 D lens attachment only [07] | C-000.33.101 |
| orbit rest extension, for spectacle wearers only | C-000.33.104 |
| XHL xenon halogen spare bulb | X-002.88.050 |

▶ For information on HEINE battery and rechargeable handles and the EN 200 wall transformer, see pages 148-157.

**Your ears will be all eyes: Diagnostic sets with otoscope and ophthalmoscope.**

## Combined diagnostic sets | kits
## HEINE BETA® 400 LED F.O. otoscope and BETA® 200 LED ophthalmoscope

[01]

**Set includes: BETA 400 LED F.O. otoscope and BETA 200 LED ophthalmoscope,** 1 set (4 pcs.) of reusable tips, 10 AllSpec disposable tips 4 mm Ø, hard case

| | 2.5V LED | 3.5V LED |
|---|---|---|
| BETA battery handle [01] | **A-153.10.118** | – |
| BETA4 USB rechargeable handle with USB cord and plug-in power supply | – | **A-153.28.388** |

**Kit includes: BETA 400 LED F.O. otoscope and BETA 200 LED ophthalmoscope,** 1 set (4 pcs.) of reusable tips, 10 AllSpec disposable tips 4 mm Ø

| | 3.5V LED |
|---|---|
| 2 x BETA4 NT rechargeable handle with NT4 table charger | **A-153.24.422** |

**Kit includes: EN 200 wall transformer, BETA 400 LED F.O. otoscope, BETA 200 LED ophthalmoscope**

| | 3.5V LED |
|---|---|
| without additional accessories | **A-095.12.218** |


▶ For further information:
HEINE BETA 400 LED otoscope page 7,
HEINE BETA 200 LED ophthalmoscope page 42,
HEINE battery and rechargeable handles and the EN 200 wall transformer, see pages 148-157.

## Combined diagnostic sets | kits
## HEINE BETA® 200 LED F.O. otoscope and BETA® 200 LED ophthalmoscope

[01]

**Set includes: BETA 200 LED F.O. otoscope and BETA 200 LED ophthalmoscope,** 1 set (4 pcs.) of reusable tips, 10 AllSpec disposable tips 4 mm Ø, hard case

| | 2.5 V LED | 3.5 V LED |
|---|---|---|
| BETA battery handle | **A-132.10.118** | – |
| BETA4 USB rechargeable handle with USB cord and plug-in power supply [01] | – | **A-132.28.388** |

**Kit includes: BETA 200 LED F.O. otoscope and BETA 200 LED ophthalmoscope,** 1 set (4 pcs.) of reusable tips, 10 AllSpec disposable tips 4 mm Ø

| | 3.5 V LED |
|---|---|
| 2 x BETA4 NT rechargeable handle with NT4 table charger | **A-132.24.422** |

**Kit includes: EN 200 wall transformer, BETA 200 LED F.O. otoscope, BETA 200 LED ophthalmoscope**

| | 3.5 V LED |
|---|---|
| without additional accessories | **A-095.12.219** |


▶ For further information:
HEINE BETA 200 LED otoscope page 9,
HEINE BETA 200 LED ophthalmoscope page 42,
HEINE battery and rechargeable handles and the EN 200 wall transformer, see pages 148-157.

## NEW | Combined diagnostic sets|kits
## HEINE K180 LED F.O. otoscope and K180 LED ophthalmoscope

[01]

**Set includes: K180 LED F.O. otoscope and K180 LED ophthalmoscope,**
1 set (4 pcs.) of reusable tips, hard case

| | 2.5V LED | 3.5V LED |
|---|---|---|
| BETA battery handle [01] | A-279.10.118 | – |
| BETA4 USB rechargeable handle with USB cord and plug-in power supply | – | A-279.28.388 |

**Kit includes: EN 200 wall transformer,**
**K180 LED F.O. otoscope, K180 LED ophthalmoscope**

| | 3.5V LED |
|---|---|
| without additional accessories | A-095.12.220 |

▶ For further information:
HEINE K180 LED otoscope page 11, HEINE K180 LED ophthalmoscope page 44,
HEINE battery and rechargeable handles and the EN 200 wall transformer,
see pages 148-157.

## Combined diagnostic sets | kits
## HEINE mini 3000® otoscope
## and mini 3000® ophthalmoscope

**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

| | 2.5 V XHL | LED |
|---|---|---|
| 2 mini 3000 battery handles (with batteries) | **D-873.11.021** | **D-886.11.021** |

**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** |

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

| | 2.5 V XHL | LED |
|---|---|---|
| 2 mini 3000 rechargeable handles and mini NT table charger | **D-859.11.022** | **D-860.11.022** |
| These kits are only available in black | | |

▶ For further information:
HEINE mini 3000 F.O. otoscope page 13, HEINE mini 3000 otoscope page 18,
HEINE mini 3000 ophthalmoscope page 46.

## Combined diagnostic sets|kits
## HEINE G100 LED VET slit illumination head and BETA 200® LED ophthalmoscope

[01]

**Set includes: G100 LED slit illumination head, BETA 200 LED ophthalmoscope,**
1 set long, closed specula (57 mm x 4 mm Ø, 65 mm x 6 mm Ø and 90 mm x 7 mm Ø), hard case

| | 2.5 V LED | 3.5 V LED |
|---|---|---|
| BETA battery handle | **G-148.10.118** | – |
| BETA4 USB rechargeable handle with USB cord and plug-in power supply | – | **G-148.28.388** |
| BETA4 NT rechargeable handle with NT4 table charger [01] | – | **G-148.24.420** |

▶ For further information:
HEINE G100 LED slit illumination head page 29,
HEINE BETA 200 LED ophthalmoscope page 42,
HEINE battery and rechargeable handles and the EN 200 wall transformer, see pages 148-157.

**You can count on our laryngoscopes. Always.**

# 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 HEINE visionPRO video laryngoscope provides just that with the and one of a kind HEINE allBRIGHT display – even in very bright ambient light.

**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

**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

HEINE visionPRO videos

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

**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 |

[01]

**visionPRO Mac single-use blades**

| | 10 pcs. | 50 pcs. |
|---|---|---|
| Mac 2 | F-000.22.242 | F-000.22.252 |
| Mac 3 | F-000.22.243 | F-000.22.253 |
| Mac 4 | F-000.22.244 | F-000.22.254 |
| HyMac 3 | F-000.22.246 | F-000.22.256 |

- You can find ordering information and other products at www.heine.com/laryngoscopes

# HEINE laryngoscopes blades
## Overview

It goes without saying that all of our laryngoscope blades are premium products. But, still, they differ in one or two details. Read on for a summary of what these different details are and all their benefits:

| | **Classic+ Macintosh** | **Classic+ Miller** | **Classic+ Paed** | **XP Macintosh** | **XP Miller** |
|---|---|---|---|---|---|
| Blade size | 0, 1, 2, 3, 3m, 4, 5 | 00, 0, 1, 2, 3, 4 | 0, 1 | 1, 2, 3, 4 | 0, 1, 2, 3, 4 |
| Material | stainless steel | | | polycarbonate | |
| Diameter of HiLite fiber bundle in mm | 4,3 | 3,7 | 3,6 | – | |
| Reprocessing | reusable, sterilisation without disassembly | | | ⊗ | |
| Recommendations | – | | | suitable for low ambient temperatures | |
| Guarantee | 10 years guarantee and 4,000 autoclave cycles | | | ⊗ | |
| Catalogue page | 80 | 81 | | 82 | |

⊗: Single use only.

## HEINE Classic+ Macintosh fiber optic (F.O.) blades
## Innovative fiber optic technology
## for advanced performance

[01]

[02]

[03]

[04]

[05]

[06]

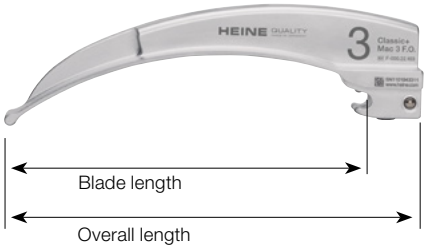
[07]

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
- **The clean shape without any edges or corners** is easy to clean, disinfect and sterilise
- **HEINE Classic+ blades have no screwed joints,** no external **bundles and no openings that could contaminate**
- **Compatible with all handles** to the ISO 7376 (green standard)
- **10 years guarantee.** (After 4,000 autoclave cycles of 134 °C / 4 min, illuminance of at least 1,000 lux.)

| 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



## HEINE Classic+ Miller and Paed fiber optic (F.O.) blades
## Innovative fiber optic technology for advanced performance

[01]

[02]

[03]

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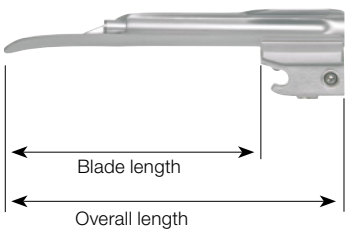
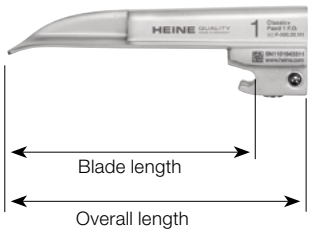
[07]

[08]

- **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 microfibers 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 4,000 autoclave cycles of 134 °C / 4 min, illuminance of at least 1,000 lux.)
- **HEINE Paed laryngoscopes** have been developed specifically for the intubation of neonates and infants

| 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** |
| Paed 0 [07] | 82 mm | 65 mm | 12 mm | **F-000.22.110** |
| Paed 1 [08] | 95 mm | 78 mm | 13 mm | **F-000.22.111** |



# HEINE XP disposable laryngoscope blades
# Eliminate cross-infection

[01]

[02]

[03]

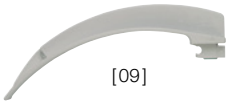
[04]

[05]

[06]

[07]

[08]



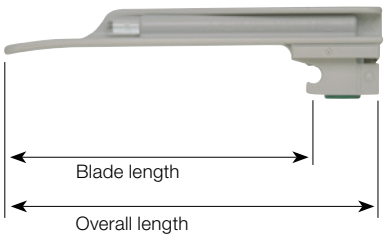
[09]

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 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.
: Single use only.




▶ For HEINE XP emergency set, please see page 90.

## 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.

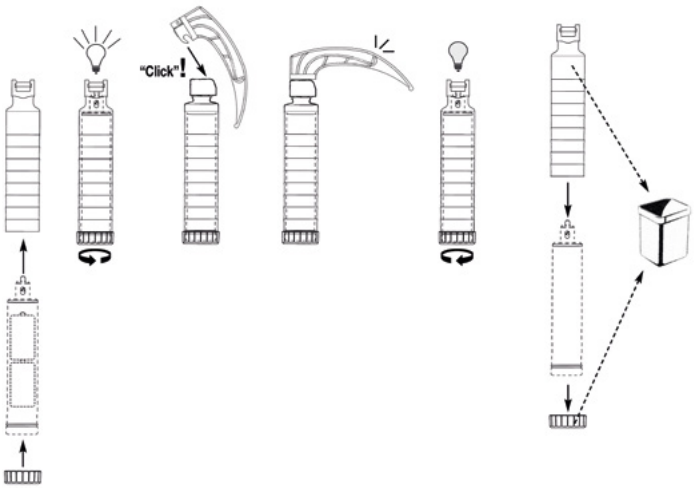
**XP disposable laryngoscope handle shell with bottom insert**

| | |
|---|---|
| without laryngoscope insert, pack of 25 | **F-000.22.926** |

| **Standard F.O. laryngoscope insert** | **2.5V** | **3.5V NiMH** | **3.5V 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** | **–** |
| 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 NT4 table charger. ⊗: Single use only.




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.

## HEINE EasyClean® LED laryngoscope handle
## All three handle sizes STANDARD, SLIM and SHORT

STANDARD

SLIM

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®, 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 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$^{HQ}$**
- **Maximum brightness:** 3 x 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)

## HEINE EasyClean® LED laryngoscope handle
## All three handle sizes STANDARD, SLIM and SHORT

[01]

[02]

[03]

| EasyClean LED laryngoscope handle | LED |
|---|---|
| EasyClean LED laryngoscope handle<br>suitable for 2 x C-batteries (LR14), compl.* [01] | **F-008.22.820** |
| EasyClean LED SLIM laryngoscope handle<br>suitable for 2 x AA-batteries (LR6), compl.* [02] | **F-008.22.821** |
| EasyClean LED SHORT laryngoscope handle,<br>suitable for 3 x AAA-batteries (LR03), compl.* [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.<br>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

[01]

- **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$^{HQ}$**

[02]

[03]

[04]

[05]

[06]

* charge status indicator
in the bottom insert
Typ. XHL 2.5 hours operating time
Typ. LED 7 hours operating time

| Standard F.O.4 NT laryngoscope handle* | 3.5V XHL Li-ion | 3.5V LED Li-ion |
|---|---|---|
| standard F.O.4 NT handle, compl. [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 | **F-000.22.824** | **F-000.22.824** |
| spare bulb | **X-002.88.044** | **–** |
| NT4 table charger, without handle | **X-002.99.494** | **X-002.99.494** |

| Standard F.O. laryngoscope battery handle | 2.5V XHL | 2.5V LED |
|---|---|---|
| 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** |

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

## HEINE F.O.4 NT laryngoscope handles
## Li-ion in all handle sizes
## XHL or LED$^{HQ}$ illumination

[01]

[02]

[03]

| F.O.4 SLIM NT laryngoscope handle | 3.5V XHL Li-ion | 2.5V LED 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** | **–** |
| NT4 table charger, without handle | **X-002.99.494** | **X-002.99.494** |
| set of two adaptors | **X-000.99.086** | **X-000.99.086** |

[05]

[04]

[06]

[07]

[08]

| F.O. SLIM laryngoscope battery handle | 2.5V XHL | 2.5V LED |
|---|---|---|
| F.O. SLIM handle suitable for 2 x AA-batteries (LR6), compl.** [01] | **F-001.22.800** | **F-008.22.800** |
| bottom insert [05] | **F-000.22.851** | **F-000.22.851** |

[01]

[02]

[03]

| F.O.4 SHORT NT laryngoscope handle | 3.5V XHL Li-ion | 2.5V LED 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** | **–** |
| NT4 table charger, without handle | **X-002.99.494** | **X-002.99.494** |

[04]

| F.O. SHORT laryngoscope battery handle | 2.5V XHL | 2.5V LED |
|---|---|---|
| F.O. SHORT handle suitable for 2 x AA-batteries (LR6), compl.** [04] | **F-001.22.812** | **F-008.22.812** |

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

# HEINE NT4 table charger and adaptors
# HEINE F.O. upgrade kit

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 152.

[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** |

**FOR CONVERTING TO HEINE F.O.4 CHARGING TECHNOLOGY**

For converting a standard F.O. or standard F.O. LED laryngoscope rechargeable handle to a standard F.O.4 NT solution.

| **Upgrade kit F.O.4 NT** | **3.5V Li-ion** |
|---|---|
| bottom insert standard F.O.4 NT, Li-ion L rechargeable battery, NT4 table charger | **F-011.99.420** |

## HEINE Classic+ fiber optic (F.O.) laryngoscope sets

[01]

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

| | 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 NT4 table charger | – | **F-119.23.865*** |

[02]

**As above, but with LED illumination,** without spare bulb

| | 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 NT4 table charger | – | **F-119.94.865*** |
| with EasyClean LED battery handle [02] | **F-119.18.820** | |

[03]

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

| | 2.5 V | 3.5 V Li-ion |
|---|---|---|
| with standard F.O. battery handle [03] | **F-120.10.860** | – |
| with standard F.O.4 NT rechargeable handle with Li-ion battery and NT4 table charger | – | **F-120.23.865*** |

[04]

**As above, but with LED illumination,** without spare bulb

| | 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 NT4 table charger | – | **F-120.94.865*** |
| with EasyClean LED battery handle [04] | **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 NT4 table charger.

# 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. With proper use the disposable XP blade avoids cross-infection from one patient to the next.
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 XP disposable laryngoscope handle shell included standard F.O. laryngoscope insert with XHL illumination and alkaline batteries.

| XP emergency set | 2.5 V XHL |
|---|---|
| **with blades Miller 0, Miller 1, Mac 2, Mac 3, Mac 4,** XP disposable laryngoscope handle shell, standard F.O. laryngoscope insert, two alkaline batteries, in case | **F-258.10.858** |

| 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 refill assortment | 2.5 V XHL |
|---|---|
| refill assortment with XP disposable laryngoscope handle shell and XP blades, Miller 0, 1, Mac 2, 3, 4 (one each) | **F-000.22.739** |

**Skin has many stories to tell. You just need to be able to read them.**

# HEINE dermatoscopes
## Overview

It goes without saying that all of our dermatoscopes are premium products. But, still, they differ in one or two details. Read on for a summary of what these different details are and all their benefits:

| | DELTA 30 PRO | DELTA 30 | DELTA*one* | iC1 | DELTA 20T | mini 3000 |
|---|---|---|---|---|---|---|
| Polarisation | polarised + non-polarised (switchable) | | | | | non-polarised (immersion) |
| Illumination | LED$^{HQ}$ with colorSHIFT | LED$^{HQ}$ | | | | XHL or LED$^{HQ}$ |
| Free field of view – diameter in contact mode | 30 mm | 30 mm | 21 mm | digital | 20 mm | 14 mm |
| Magnification | 10 x | 10 x | 10 x | up to 40 x digital | 10 x | 10 x |
| Handle options \| power sources | USB cable, table charger | | USB cable | | battery handle, USB rechargeable handle, rechargeable handle with table charger, EN 200 \| EN 200-1 | battery handle, rechargeable handle with table charger |
| Contact plate | contact plate with scale | | | | contact plate with scale, contact plate without scale | |
| Small contact plate* | optional | | | – | optional | |
| HEINE diSTANCE working ring | optional | | – | | | |
| Digital documentation | with adaptor and app | | | with iPhone \| iPod touch** and app | with optional SLR photo adaptor | – |
| Catalogue page | 94 | 96 | 97 | 98 | 99 | 100 |

* for difficult-to-access pigmented lesions
**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.

# Invented to discover.

**The new DELTA 30 PRO dermatoscope.**

Since the LED$^{HQ}$ elements have been repositioned in our new high-end dermatoscope, the light reaches deeper layers of the skin. This gives an extremely vivid, spatial impression of lesions – similar to a 3D image. So even the details of the details stand out.

The HEINE colorSHIFT function is a genuine world first. It allows you to easily adjust the colour temperature to suit your own viewing habits. Go from warm white to bluish white in 4 stages.

Regardless of whether you prefer working close-up or further away, the image is always sharp and crystal clear.

NEW

# HEINE DELTA® 30 PRO dermatoscope

## High-end dermatoscope with our best imaging

Since the LED$^{HQ}$ elements have been repositioned, the light reaches deeper layers of the skin too. This gives an extremely vivid, spatial impression of lesions – similar to a 3D image. The HEINE colorSHIFT function is a genuine world first. It allows you to easily adjust the colour temperature to suit your own viewing habits.

HEINE diSTANCE working ring: The stable working ring enables the user to examine and manage a lesion under magnification by maintaining a constant distance between the skin and the dermatoscope without contact. (optional)

HEINE diSTANCE working ring

**EXTREMELY VIVID, SPATIAL IMPRESSION OF LESIONS**

- Very good assessment of lesions' spatial structure possible due to deeper light penetration thanks to angled and directional LED$^{HQ}$ arrangement
- Easier to distinguish between dark and white structures and patterns during polarisation
- Switch between polarised and non-polarised light at the touch of a button = toggle function
- Crystal-clear image, no matter whether you prefer to work close-up or further away
- Large field of view with 'real' 30 mm Ø due to 32 mm lens

**CHOOSE THE LIGHT COLOUR TO SUIT YOUR OWN PREFERENCES WITH HEINE colorSHIFT**

- 4 colour temperature stages from warm white to bluish white
- Adjustable to suit your own habits and preferences or the challenges posed by the lesion to be examined

HEINE DELTA 30 PRO film

**STURDY AND DURABLE**

- Particularly resistant to disinfectants due to new plastics
- Improved battery life

**INTUITIVE AND ERGONOMIC**

- Ergonomic handling due to angled product design
- Scale on eyepiece shows the focus setting – for easy preselection of certain settings for specific users and|or for use with a camera or smartphone
- Easy charging due to USB-C
- Rechargeable battery with Li-ion technology
- Fast change from contact to non-contact examination
- Custom light intensity: 3 degrees of luminous intensity
- 10x magnification
- No cross-contamination: autoclavable contact plate with scale
- Small contact plate for hard-to-reach lesions

- **Digital documentation:** Image and data management convenient and intuitive. More information can be found on our website: www.heine.com/en/digital

## NEW | HEINE DELTA® 30 PRO dermatoscope Sets

[01]

| DELTA 30 PRO dermatoscope | LED |
|---|---|
| with contact plate with scale, E4-USBC power supply with cable, hard case [01] | **K-235.28.305** |
| with contact plate with scale, small contact plate, E4-USBC power supply with cable, charger 30 table charging station, universal smartphone adapter, hard case [02] | **K-236.28.306** |

[02]

| | |
|---|---|
| HEINE diSTANCE working ring [03] | **K-000.34.103** |

[03]

▶ **DIGITAL DOCUMENTATION: REMEMBER EACH AND EVERY MOLE**

Image and data management convenient and intuitive. More information can be found on our website: www.heine.com/en/digital

▶ Accessories can be found on page 102.

# HEINE DELTA® 30 dermatoscope
## Reliable diagnostics

Digital documentation by HEINE

Not only would the HEINE DELTA 30 win any beauty pageant, but stands out due to its very good imaging. Combined with a field of view measuring a veritable 30 millimetres and unprecedented colour rendering, in LED$^{HQ}$ 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.

HEINE diSTANCE working ring: The stable working ring enables the user to examine and manage a lesion under magnification by maintaining a constant distance between the skin and the dermatoscope without contact. (optional)

- **Large true field of view of 30mm** (lens 32mm)
- **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 LED$^{HQ}$
- **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
- **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

[01]

[02]

| DELTA 30 dermatoscope | 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 | X-002.99.212 |
| HEINE diSTANCE working ring [02] | K-000.34.103 |

▶ Accessories can be found on page 102.

## HEINE DELTA*one* dermatoscope
## Uniting diagnostic precision and mobility

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

| DELTA*one* dermatoscope | LED |
|---|---|
| with contact plate with scale, USB cord with medical approved plug-in power supply, hard case.<br>Standard Edition (black-silver) | **K-210.28.305** |
| with contact plate with scale, USB cord with medical approved plug-in power supply, hard case.<br>White Edition (white-silver) | **K-211.28.305** |

▶ Accessories can be found on page 102.

## HEINE iC1 dermatoscope
## The digital dermatoscope

- **Sharp, sharper, sharpest.** The HEINE iC1 is a device designed for capturing clinical and dermatoscopic images for documenting and supporting differential diagnosis of melanomas and other skin lesions. Developed in our unrivalled HEINE quality, the iC1 delivers sharp, shadow-free images.
  Thanks, to both our precise, aspherical optical system and, the 12-megapixel image quality when using an iPhone* 6s or later model
- **Digital documentation:** Image and data management convenient and intuitive. More information on our website: www.heine.com/en/digital
- **Big, bigger, biggest.** The high-quality aspherical optical system with up to 40× true magnification offers everything you need in a practice
- **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$^{HQ}$**
- **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.
  For more information, please visit heine.com/en/Toggle
- **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

Digital documentation by HEINE

| iC1 | LED |
|---|---|
| **with contact plate with scale, mounting case smartphone iC1/5 for Apple iPhone 5s* and SE 1st generation*,** USB cord with medical approved plug-in power supply | **K-271.28.305** |
| **with contact plate with scale, mounting case smartphone iC1/6 for Apple iPhone 6/6s*,** USB cord with medical approved plug-in power supply | **K-270.28.305** |
| **with contact plate with scale, mounting case smartphone iC1/7 for Apple iPhone 7*, 8* and SE 2nd generation*,** USB cord with medical approved plug-in power supply | **K-273.28.305** |
| **with contact plate with scale, mounting case smartphone iC1/12 Pro for Apple iPhone 12 Pro*,** USB cord with medical approved plug-in power supply | **K-277.28.305** |

* The Apple iPhone 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® 20T dermatoscope

## The classic

- **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. For more information, please visit heine.com/en/Toggle
- **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.
- **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$^{HQ}$**
- **The DELTA 20T 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 20T to create an unbeatable pair

HEINE DELTA 20T film

[01]

[02]

| DELTA 20T dermatoscope | LED |
|---|---|
| with contact plate with scale, BETA4 USB rechargeable handle with USB cord and plug-in power supply [01] | K-010.28.388 |
| with contact plate with scale, EN 200-1 wall transformer (single unit with one handle) as single module with long USB cord and E4-USB plug-in power supply [02] | K-010.28.252 |


- Accessories can be found on page 103.
- For information on HEINE battery and rechargeable handles and the EN 200 wall transformer, see pages 148-157.

## HEINE mini 3000® dermatoscope
## Compact pocket dermatoscope with XHL or LED$^{HQ}$ illumination

Modern pocket dermatoscope with concentrated, bright light for uniform illumination with exact colour rendering. Unique, compact design with high quality optics. 10x magnification with focusing optics, metal instrument head. Can be used with the mini 3000 handle system. Handle available in black and blue, instrument head only available in black|silver.

**FEATURES FOR BOTH INSTRUMENTS (XHL AND LED):**

- **Modern pocket dermatoscope with handy dimensions:** small on the outside, but big on the inside
- **10x magnification**
- **Focus setting for compensation of ametropia: ± 4 dpt.**
- **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 pigmented lesions, for instance between the fingers or toes

**SPECIAL FEATURES OF THE LED INSTRUMENTS:**

- **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 a conventional XHL (xenon halogen) dermatoscope
- **Maintenance-free LED$^{HQ}$ 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

# HEINE mini 3000®
# dermatoscope sets | kits

**Set includes: mini 3000 dermatoscope,**
with contact plate with or without scale, zipper case

| | 2.5V LED |
|---|---|
| mini 3000 battery handle (with batteries), with contact plate **with scale** | D-888.78.021 |

**Kit includes: mini 3000 dermatoscope,** with contact plate with or without scale

| | 2.5V XHL | 2.5V LED |
|---|---|---|
| mini 3000 battery handle (with batteries), with contact plate **with scale** | D-001.78.109 | D-008.78.109 |
| mini 3000 battery handle (with batteries), with contact plate **without scale** | D-001.78.107 | D-008.78.107 |

NEW

# Dermatoscopes
# Further articles | accessories

Dermatoscopes accessories

While our instruments' quality starts with development, it certainly doesn't end with the accessories. Contact plates, smartphone adapters, digital camera adapters for DSLR and DSLM cameras, the HEINE diSTANCE working ring, the belt clip, cases, power supply units, chargers or USB cords.

[01]

[02]

[03]

[04]

**DELTA 30 PRO | DELTA 30 and DELTA*one***

| | |
|---|---|
| universal smartphone adapter mag [01] | **K-000.34.273** |
| universal smartphone connector adhesive [02] | **K-000.34.270** |
| universal smartphone adapter to clamp-on [03]<br>for DELTA 30 PRO \| DELTA 30 | **K-000.34.272** |
| for DELTA*one* | **K-000.34.271** |

**You can find more information on the available iPhone* mounting cases [04], other products and accessories at**
**www.heine.com/derm-accessories**

[05]

[06]

[07]

[07]

[09]

[10]

[11]

**DELTA 30 PRO | DELTA 30**

| | |
|---|---|
| contact plate with scale [05] | **K-000.34.220** |
| small contact plate [06]<br>for the examination of difficult-to-access pigmented lesions | **K-000.34.206** |
| HEINE diSTANCE working ring [07] | **K-000.34.103** |
| charger 30 table charging station [08] | **X-002.99.212** |
| SLR \| SLM Camera Adapter universal [09] | **K-000.34.140** |
| SLR \| SLM Camera Adapter flow M49 [10] | **K-000.34.147** |
| SLR \| SLM Camera Adapter flow M52 | **K-000.34.148** |

**You can find our camera adapter range at**
**www.heine.com/adapters**

| | |
|---|---|
| belt case [11] | **K-230.01.000** |

[12]

[13]

[14]

**DELTA*one***

| | |
|---|---|
| contact plate with scale [12] | **K-000.34.222** |
| small contact plate [13]<br>for the examination of difficult-to-access pigmented lesions | **K-000.24.207** |
| belt case [14] | **K-210.01.000** |

*Apple, the Apple Logo, iPhone and iPod touch are trademarks of Apple Inc., registered in the U.S. and other countries.

# Dermatoscopes
# Further articles | accessories

[01]

**iC1 dermatoscope**

| | |
|---|---|
| contact plate with scale [10] | **K-000.34.201** |
| USB cord with E4-USB medical approved plug-in power supply | **X-000.99.303** |

**The currently available iPhone* mounting cases for iC1 can be found at**
**www.heine.com/en/mounting-case-smartphone**

*Apple, the Apple Logo, iPhone and iPod touch are trademarks of Apple Inc., registered in the U.S. and other countries.

[02]

[03]

[04]

[05]

[06]

**DELTA 20T**

| | |
|---|---|
| dermatoscope head with contact plate Ø 23 mm with scale, without handle [01] | **K-008.34.221** |
| dermatoscope head with contact plate Ø 23 mm without scale, without handle | **K-008.34.222** |
| contact plate 23 mm Ø with scale [02] | **K-000.34.216** |
| contact plate 23 mm Ø without scale | **K-000.34.217** |
| small contact plate, 8 mm Ø [03] for the examination of difficult-to-access pigmented lesions | **K-000.34.205** |
| SLR photo adaptor for Canon [04] | **K-000.34.185** |
| SLR photo adaptor for Nikon | **K-000.34.186** |
| adaptor cord (1.3 m) for DELTA 20T \| handle | **X-000.99.231** |
| photo accessory set for Canon (includes SLR photo adaptor, adaptor cord, distance ring and BETA belt clip) [05] | **K-000.34.190** |
| photo accessory set for Nikon (includes SLR photo adaptor, adaptor cord, distance ring and BETA belt clip) | **K-000.34.191** |
| BETA belt clip for BETA handle | **X-000.99.008** |

▶ **For information on HEINE battery and rechargeable handles and the EN 200 wall transformer, see pages 148-157.**

# Dermatoscopes
## Further articles | accessories

[01]

| mini 3000 | 2.5 V XHL | 2.5 V LED |
|---|---|---|
| dermatoscope head* with contact plate with scale, without handle [01] | **D-001.78.108** | **D-008.78.108** |

*only available in black | silver

[02]

| | | |
|---|---|---|
| XHL xenon halogen spare bulb [02] | **X-001.88.109** | – |

[03]

[04]

| | |
|---|---|
| contact plate with scale [03] | **D-000.78.117** |
| contact plate without scale | **D-000.78.116** |
| small contact plate, 8 mm Ø for the examination of difficult-to-access pigmented lesions [04] | **K-000.34.008** |
| zipper case [05] | **D-887.00.000** |

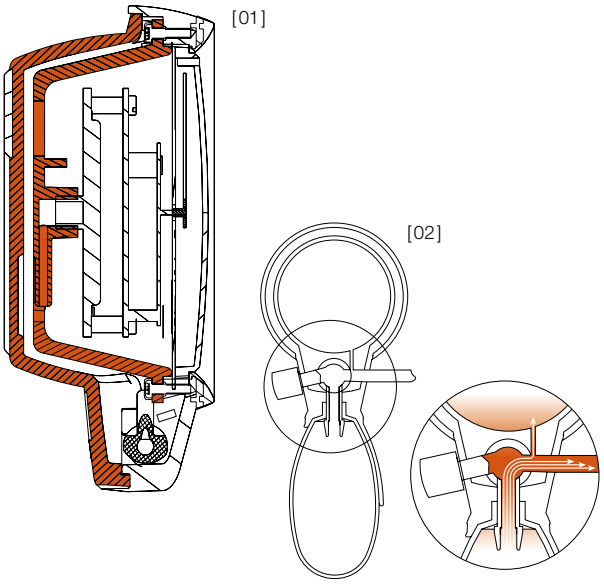
[05]

**It’s sure to increase your heartbeat. Out of pure joy.**

# HEINE sphygmomanometers and stethoscopes

**SHOCKPROOF**

- **Shockproof double-walled construction with unique manometer protection. [01]**
  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**

- **Single-tube construction with air pressure distribution system [02]**

**CLINICAL APPROVAL**

## HEINE GAMMA® G7
## The model with aluminium alloy construction and precision valve

- **Shockproof**
- **Latex-free**
- **Unique pressure measuring system**
- **Pressure-proof manometer**
- **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.
- **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** |

## 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** |

# HEINE GAMMA® XXL LF
## The top-quality professional model

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

[01]

- **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.

[03]

[02]

### GAMMA XXL LF

| | |
|---|---|
| GAMMA XXL LF-W wall complete with adult cuff [01] | **M-000.09.323** |
| GAMMA XXL LF-S wheeled stand complete with adult cuff [02] | **M-000.09.326** |
| GAMMA XXL LF-R rail complete with adult cuff [03] | **M-000.09.325** |
| GAMMA XXL LF-T desk complete with adult cuff (non-spiral insufflation tube) [04] | **M-000.09.322** |
| GAMMA XXL LF-WB for wallboard, see page 156 [05] | **M-000.09.327** |

[04] [05]

### Accessories

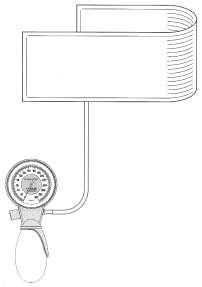
| | |
|---|---|
| cuff-holder for GAMMA XXL LF-T | **M-000.09.141** |
| desk stand for GAMMA XXL LF-T | **M-000.09.142** |
| adjustable wheeled stand for GAMMA XXL LF-S (height 80 – 125 cm) | **M-000.09.145** |
| universal mounting plate for GAMMA XXL LF-R, -S, -W | **M-000.09.306** |
| rail clamp for GAMMA XXL LF-R | **M-000.09.307** |

## Blood-pressure cuffs

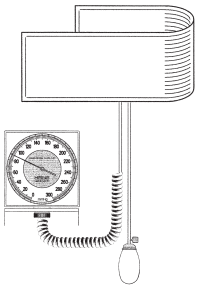
## Latex-free blood-pressure cuffs

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

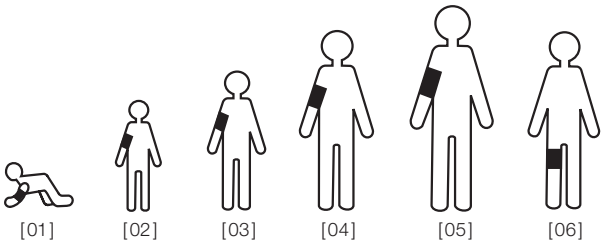
- **Latex-free**
- **Fit the most widely used sphygmomanometers**
- **High-quality velcro cuffs.** Physiologically tested
- **Double-sewn**
- **Washable**
- **Index mark for exact positioning**
- **Clear indication of size and control mark for arm circumference**
- **Extra thick, highly flexible tube.**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



| GAMMA G7 \| G5 \| GP | Single-tube cuffs (cpl.) | | |
|---|---|---|---|
| | Size | Circumference \| cm | |
| infant [01] | 6x28 | 8–13 | **M-000.09.700** |
| child [02] | 10x34 | 13–20 | **M-000.09.702** |
| adult small [03] | 14x53 | 20–29 | **M-000.09.704** |
| adult [04] | 14x58 | 29–41 | **M-000.09.619** |
| adult large [05] | 17x70 | 35–47 | **M-000.09.706** |
| thigh [06] | 20x86 | 41–59 | **M-000.09.615** |



| GAMMA XXL LF | Twin-tube cuffs (cpl.) | | |
|---|---|---|---|
| | Size | Circumference \| cm | |
| infant [01] | 6x28 | 8–13 | **M-000.09.701** |
| child [02] | 10x34 | 13–20 | **M-000.09.703** |
| adult small [03] | 14x53 | 20–29 | **M-000.09.705** |
| adult [04] | 14x58 | 29–41 | **M-000.09.629** |
| adult large [05] | 17x70 | 35–47 | **M-000.09.631** |
| thigh [06] | 20x86 | 41–59 | **M-000.09.625** |



NEW

## HEINE GAMMA® 3.1 pulse stethoscope
## Ideal for measuring blood pressure

The new HEINE GAMMA 3.1 stethoscope, which can be easily and comfortably slid under the cuff of the sphygmomanometer thanks to its flat chest piece, has been given a complete overhaul. Particular emphasis was placed on an excellent ergonomic design, with angled binaurals and new ear olives. The particularly flat, solid aluminium chest piece alone saves around 50% in weight, scores top marks with excellent acoustics and is the ideal partner for measuring blood pressure in practice, hospital or care settings.

**EXCELLENT ERGONOMICS THANKS TO IMPROVED DESIGN**

- Internal and welded spring
- Better fit and shielding thanks to optimised ear olives
- Better anatomical fit to the ear canal thanks to angled binaurals
- Optimum patient accessibility due to angled connector on the chest piece
- Higher-quality plastics in compliance with all health-related requirements
- Increased patient comfort thanks to improved non-chill rims
- Simple and safe to disinfect

**EXTREMELY LIGHTWEIGHT**

- Extremely comfortable to wear, weighing just 112 grams in total
- Solid aluminium chest piece

**EXCELLENT ACOUSTICS THANKS TO THE FLAT CHEST PIECE**

- Single-tube construction with excellent sound transmission
- Quality membrane (44 mm in diameter) for optimum sound transmission

**DURABLE AND HIGH-QUALITY**

- Made in Germany
- Replaceable membrane
- 5-year guarantee

| | |
|---|---|
| GAMMA 3.1 | **M-000.09.941** |

## NEW | HEINE GAMMA® 3.2 acoustic stethoscope
## The high-quality and particularly lightweight all-rounder

The new HEINE GAMMA 3.2 stethoscope has been given a complete overhaul. Particular emphasis was placed on an excellent ergonomic design, with angled binaurals and new ear olives. The solid aluminium chest piece alone saves around 60% in weight. The switchable double chest piece scores top marks thanks to excellent acoustics and is a reliable companion in practice, hospital, care or study settings.

**EXCELLENT ERGONOMICS THANKS TO IMPROVED DESIGN**

- Internal and welded spring
- Better fit and shielding thanks to optimised ear olives
- Better anatomical fit to the ear canal thanks to angled binaurals
- Optimum patient accessibility due to angled connector on the chest piece
- Higher-quality plastics in compliance with all health-related requirements
- Increased patient comfort thanks to improved non-chill rims
- Simple and safe to disinfect

**EXTREMELY LIGHTWEIGHT**

- Extremely comfortable to wear, weighing just 122 grams in total
- Solid aluminium chest piece

**EXCELLENT ACOUSTICS WITH DOUBLE-WALLED HOUSING**

- Switchable from membrane to cone function to cover the relevant frequency ranges
- Single-tube construction with excellent sound transmission
- Quality membrane (44 mm in diameter) for optimum sound transmission
- Cone diameter 30 mm

**DURABLE AND HIGH-QUALITY**

- Made in Germany
- Replaceable membrane
- 5-year guarantee

| | |
|---|---|
| GAMMA 3.2 | **M-000.09.942** |

NEW

## HEINE GAMMA® 3.3 paediatric stethoscope
## Great for little ones

The new HEINE GAMMA 3.3 paediatric stethoscope has been given a complete overhaul. Particular emphasis was placed on an excellent ergonomic design, with angled binaurals and new ear olives. The extra-small, solid aluminium chest piece alone saves around 60% in weight. The switchable double chest piece scores top marks thanks to excellent acoustics and is tailor-made for examining children in practice or hospital settings.

**EXCELLENT ERGONOMICS THANKS TO IMPROVED DESIGN**

- Internal and welded spring
- Better fit and shielding thanks to optimised ear olives
- Better anatomical fit to the ear canal thanks to angled
- Optimum patient accessibility due to angled connector on the chest piece
- Higher-quality plastics in compliance with all health-related requirements
- Increased patient comfort thanks to improved non-chill rims
- Simple and safe to disinfect

**EXTREMELY LIGHTWEIGHT**

- Extremely comfortable to wear, weighing just 112 grams in total
- Solid aluminium chest piece

**EXCELLENT ACOUSTICS WITH DOUBLE CHEST PIECE**

- Switchable from membrane to cone function to cover the relevant frequency ranges
- Single-tube construction with excellent sound transmission
- Quality membrane (31 mm in diameter) for optimum sound transmission
- Cone diameter 30 mm

**DURABLE AND HIGH-QUALITY**

- Made in Germany
- Replaceable membrane
- 5-year guarantee

| | |
|---|---|
| GAMMA 3.3 | **M-000.09.943** |

**We bring**
**light into the dark.**

# 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 see accessories on page 118.

- **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

[01] [02] [03]

**UniSpec disposable anoscopes (85 x 20 mm)** [01]

| | |
|---|---|
| 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)** [02]

| | |
|---|---|
| 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)** [03]

| | |
|---|---|
| pack of 25 disposable sigmoidoscopes | **E-003.18.825** |
| box of 100 (4 packs of 25) sigmoidoscopes | **E-003.18.811** |

: Single use only.

## HEINE hygiene filter
## for single use

Disposable hygiene filter minimises contamination of the double bulb insufflator

| | |
|---|---|
| disposable hygiene filters 25 pcs \| pack | **E-000.18.116** |

⊗: Single use only.

## HEINE illumination adaptor
## for proctological HEINE F.O. instruments

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** |

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

# Let there be light.

## HEINE EL 10 LED® examination light
## A real highlight in all respects with LED$^{HQ}$ illumination

[01]

[02]

[04]

[03]

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
- **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$^{HQ}$**
- **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

| 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** |

## 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
- **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$^{HQ}$**
- **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

[01]

[02]

[04]

[03]

| 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** |

**Once you've tried it, you'll never want to do without it again.**

# HEINE binocular loupes
## Overview

It goes without saying that all of our binocular loupes are premium products. But, still, they differ in one or two details. Read on for a summary of what these different details are and all their benefits:

| | HR | HRP | C |
|---|---|---|---|
| Magnification \| working distance | 2.5x\|340mm<br>2.5x\|420mm<br>2.5x\|520mm | 3.5x\|420mm<br>4x\|340mm<br>6x\|340mm | 2.3x\|340mm<br>2.3x\|450mm |
| Mounting options | S-FRAME spectacle frame [01], professional L headband [02] | | lightweight headband [04] |
| Further articles | protective lenses,<br>close-up lenses (to reduce the working distance from 340mm to 250mm),<br>LoupeLight2 [03]<br>(pages 133\|134) | protective lenses,<br>LoupeLight2 [03]<br>(pages 133\|134) | protective lenses |
| Features | i-View function*,<br>modular,<br>water-resistant,<br>achromatic optics,<br>optional prescription correction | | – |
| Catalogue page | 126-127 | 128-129 | 130 |

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

[01]

[02]

[03]

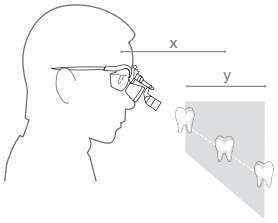
[04]

# HEINE binocular loupes
# How to choose the correct loupe

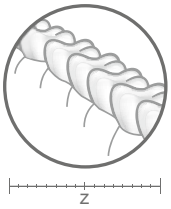
Various magnifications (from 2.3 x to 6 x), working distances, wearing options (unique S-FRAME, Lightweight headband and Professional L headband) and LoupeLight2 illumination systems are available. They provide homogeneous, reflex-free illumination even in deep cavities. State-of-the-art LED$^{HQ}$ technology 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.




**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.

More information can be found on www.heine.com

**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 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 |

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:<br>HR 2.5x optics with i-View on S-FRAME<br>protective lenses<br>2 sterilisable swivel levers<br>retaining cord<br>cleaning cloth<br>carrying case | **C-000.32.355** | **C-000.32.356** | **C-000.32.567** |
| Set B:<br>HR 2.5x optics with i-View on Professional L headband<br>S-GUARD splash protection<br>protective lenses<br>2 sterilisable swivel levers<br>cleaning cloth | **C-000.32.365** | **C-000.32.366** | **C-000.32.367** |
| Set C (without S-GUARD):<br>HR 2.5x optics with i-View on Professional L headband<br>protective lenses<br>2 sterilisable swivel levers | **C-000.32.865** | **C-000.32.866** | **C-000.32.867** |

▶ For details of accessories and LoupeLight2 see pages 132-134.

# 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 3.5x\|420 | HRP 4x\|340 | HRP 6x\|340 |
|---|---|---|---|
| Field of view in mm | 65 | 50 | 40 |
| Depth of field in mm | 60 | 40 | 30 |

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

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

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 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 3.5x\|420 | HRP 4x\|340 | HRP 6x\|340 |
|---|---|---|---|
| Set A:<br>HRP optics with i-View on S-FRAME<br>protective lenses<br>2 sterilisable swivel levers<br>retaining cord<br>cleaning cloth<br>carrying case | **C-000.32.430** | **C-000.32.431** | **C-000.32.432** |
| Set B:<br>HRP optics with i-View on Professional L headband<br>S-GUARD splash protection<br>protective lenses<br>2 sterilisable swivel levers<br>cleaning cloth | **C-000.32.440** | **C-000.32.441** | **C-000.32.442** |
| Set C (without S-GUARD):<br>HRP optics with i-View on Professional L headband<br>protective lenses<br>2 sterilisable swivel levers | **C-000.32.840** | **C-000.32.841** | **C-000.32.842** |

▶ For details of accessories and LoupeLight2 see pages 132-134.

# HEINE C2.3K 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
- **The ideal all-purpose loupe.** The feather-light weight, low-profile design and low cost of the C2.3K loupe make it the ideal all-purpose loupe
- **Working distance.** 340 mm or 450 mm (13 or 18 inches)

| Specifications | C2.3K\|340 mm | C2.3K\|450 mm |
|---|---|---|
| Magnification | 2.3 x | 2.3 x |
| Working distance | 340 mm | 450 mm |
| Field of view Ø | 110 mm | 130 mm |
| Weight | 160 g | 160 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 loupe can be worn with 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.

**C2.3K binocular loupes**

| | |
|---|---|
| C2.3K\|340 headband loupe in case | **C-000.32.230** |
| C2.3K\|450 headband loupe in case | **C-000.32.231** |

| | |
|---|---|
| Detachable protective lenses for C2.3K to protect the optic | **C-000.32.097** |

## 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** | – | – |

# Accessories for HEINE binocular loupes
# Ordering information

[01]

[02]

[03]

[04]

[05]



[06]

[07]

[08]

[09]

[10]

[11]

### Mounting options

| | |
|---|---|
| S-FRAME* for HR and HRP binocular loupes incl. retaining cord [01] | **C-000.32.302** |
| Professional L headband for HR and HRP optics [02] | **C-000.32.549** |

* with protective lenses, large (lg).

### Accessories for optics

| | |
|---|---|
| HR close-up lenses in case for HR 2.5x\|340mm.<br>The close-up lenses reduce the working distance of the binocular loupes HR 2.5x\|340mm to 250mm [03] | **C-000.32.523** |

### Protective lenses to protect the optics of the HR and the HRP loupes

| | |
|---|---|
| protective lenses for HR loupes (5 pairs) [04] | **C-000.32.537** |
| protective lenses for HRP loupes [05] | **C-000.32.027** |
| sterilisable swivel levers for HR and HRP loupes with i-View [06] | **C-000.32.551** |
| carrying case for binocular loupe optics or for all sets with S-FRAME [07] | **C-000.32.552** |

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

### Accessories for S-FRAME

| | |
|---|---|
| S-FRAME retaining cord [08] | **C-000.32.305** |
| S-FRAME replacement part set with side rubbers, nose pad (1 piece) and screw [09] | **C-000.32.308** |
| clip-in correction frame for prescription lenses [10] | **C-000.32.309** |
| protective lenses, large (lg), 1 pair (standard) [11] | **C-000.32.306** |
| protective lenses, small (sm), 1 pair | **C-000.32.307** |

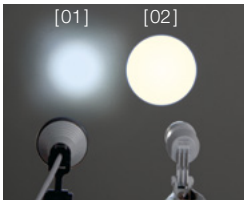
## HEINE LoupeLight2
## Compact LED$^{HQ}$ headlight

- **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.




[01] Conventional system
[02] HEINE precision 4-lens system

- **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

# 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<br>mPack mini<br>mPack mini belt clip<br>E4-USB plug-in transformer<br>connecting cord<br>protective lenses<br>2 sterilisable levers<br>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<br>mPack mini<br>mPack mini belt clip<br>E4-USB plug-in transformer<br>connecting cord<br>protective lenses<br>2 sterilisable levers<br>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.

▶ For further information on the mPack mini, please see pages 139 and 165.

▶ Power supplies may deviate in size and shape.

## HEINE LoupeLight2 and accessories
## Ordering information

[01]

[02]

[03]

[04]

[05]

[06]

[07]

[08]

**LoupeLight2**

| | |
|---|---|
| LoupeLight2 for HR / HRP loupes for i-View loupe mount* [01] | **C-008.32.226** |
| detachable yellow filter [02] | **C-000.32.241** |
| polarisation filter P2 for LoupeLight2 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 LoupeLight2 \| mPack mini [05] | **C-000.32.240** |
| connecting cord SC2 (1.5 m \| Ø 3.2 mm) for LoupeLight2 \| mPack mini [06] | **C-000.32.243** |

**LoupeLight2 with power source for i-View loupe mount (HR\|HRP)**

| | |
|---|---|
| LoupeLight2 with mPack mini and E4-USB plug-in transformer* [07] | **C-008.32.265** |
| mPack mini belt clip [08] | **X-000.99.006** |

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

## HEINE mPack mini
## Compact and lightweight power source
## for LoupeLight2 | MicroLight2

- **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

# HEINE headlights
## Overview

It goes without saying that all of our headlights are premium products. But, still, they differ in one or two details. Read on for a summary of what these different details are and all their benefits:

| | **MicroLight2** | **ML4 LED HeadLight** |
|---|---|---|
| Illumination | LED[HQ] | |
| Light intensity* | typ. 55,000 lux | typ. 90,000 lux |
| Colour temperature (kelvin) | typ. 4,000 K | typ. 5,500 K |
| Spot size | 81 mm | 30 – 80 mm |
| Power sources \| operating time | mPack mini \| typ. 9 hours | mPack UNPLUGGED \| typ. 3.5 hours<br>mPack \| typ. 8.5 Std. |
| Weight | 80 g with S-FRAME spectacle frame<br>190 g with Lightweight headband | 260 g<br>460 g with mPack UNPLUGGED |
| Angle of declination | fully-adjustable | |
| Brightness control | 0 – 100 % | |
| Features | waterproof,<br>optional yellow filter,<br>head- or spectacle-worn, | adjustable spot size,<br>optional yellow filter,<br>polarisation filter,<br>expandable with HR and HRP loupes,<br>head-worn, |
| Catalogue page | 137-139 | 141-142 |

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

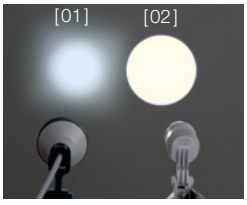
## HEINE MicroLight2
## Compact LED$^{HQ}$ headlight

- **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 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 MicroLight2 with the mPack mini
- **Incl. coloured attachment clips for personalisation.** To fixate the cable on the S-FRAME and to identify your headlight

**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) |

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




[01] Conventional system
[02] HEINE precision 4-lens system

- **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

# HEINE MicroLight2
# 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 MicroLight2)
- **Tough polycarbonate protective lenses**

### HEINE LIGHTWEIGHT HEADBAND

- **Lightweight** (190 g together with MicroLight2). 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 LoupeLight2 | MicroLight2

- **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
- **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

[01]

▶ For further information on the mPack mini, please see page 165.

# HEINE MicroLight2
## Ordering information

[01]

**MicroLight2**

| | |
|---|---|
| on S-FRAME with mPack mini, mPack mini belt clip, E4-USB plug-in transformer with USB cord, connecting cord, retaining cord, 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** |

[02]

| | |
|---|---|
| detachable yellow filter [03] | **C-000.32.241** |
| connecting cord SC1 (1.5 m \| Ø 2.4 mm) for MicroLight2 \| mPack mini [04] | **C-000.32.240** |
| connecting cord SC2 (1.5 m \| Ø 3.2 mm) for MicroLight2 \| mPack mini [05] | **C-000.32.243** |

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

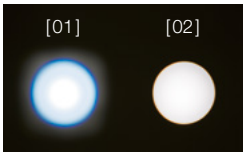
[03]

[04]

[05]

## HEINE ML4 LED HeadLight
## Ultra bright coaxial LED$^{HQ}$ illumination

- **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
- **Flexibility.** Flexible power source options: 100 % mobility with a choice of cable-free mPack UNPLUGGED head-worn battery or mPack belt-worn battery pack
- **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




[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
## 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

▶ For the optional EN 50 table | wall unit please see page 164.

# HEINE ML4 LED HeadLight
## Ordering information

[01]

[02]

[03]

[04]

[05]

[06]

[07]

[08]

[09]

| ML4 LED HeadLight with Professional L headband | |
|---|---|
| ML4 LED HeadLight (without power source) [01] | **J-008.31.410** |
| ML4 LED HeadLight with plug-in transformer [01] + [02] | **J-008.31.411** |
| 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** |

| ML4 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 P2 for ML4 LED and HR loupes [08] + [09] | **J-000.31.326** |
| spare polarisation filter P2 for HR loupes (2 pairs) [09] | **C-000.32.536** |

Power supplies may deviate in size and shape.

# HEINE ML4 LED HeadLight with HR|HRP binocular loupes

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.

- **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 | 2.5x\|340mm | **J-008.31.440** |
| Kit 2: | with HR binocular loupe | 2.5x\|420mm | **J-008.31.441** |
| Kit 11: | with HR binocular loupe | 2.5x\|520mm | **J-008.31.450** |
| Kit 3: | with HRP binocular loupe | 3.5x\|420mm | **J-008.31.442** |
| Kit 4: | with HRP binocular loupe | 4x\|340mm | **J-008.31.443** |
| Kit 5: | with HRP binocular loupe | 6x\|340mm | **J-008.31.444** |

**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 | 2.5x\|340mm | **J-008.31.452** |
| Kit 2c: | with HR binocular loupe | 2.5x\|420mm | **J-008.31.453** |
| Kit 11c: | with HR binocular loupe | 2.5x\|520mm | **J-008.31.463** |
| Kit 3c: | with HRP binocular loupe | 3.5x\|420mm | **J-008.31.454** |
| Kit 4c: | with HRP binocular loupe | 4x\|340mm | **J-008.31.456** |
| Kit 5c: | with HRP binocular loupe | 6x\|340mm | **J-008.31.457** |

# HEINE ML4 LED HeadLight UNPLUGGED with HR|HRP binocular loupes

**ML4 LED HeadLight UNPLUGGED 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, wall transformer EN 50 UNPLUGGED, 2 x mPack UNPLUGGED

| | | | |
|---|---|---|---|
| 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** |

**ML4 LED HeadLight UNPLUGGED kits with power source without S-GUARD**
The following kits contain: ML4 LED HeadLight on Professional L headband, HR|HRP optics with i-View, wall transformer EN 50 UNPLUGGED, 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** |

## 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 splash protection

| | | with S-GUARD splash protection | without S-GUARD splash protection |
|---|---|---|---|
| with HR binocular loupe | 2.5x\|340mm | **J-000.31.370** | **J-000.31.287** |
| with HR binocular loupe | 2.5x\|420mm | **J-000.31.371** | **J-000.31.288** |
| with HR binocular loupe | 2.5x\|520mm | **J-000.31.365** | **J-000.31.292** |
| with HRP binocular loupe | 3.5x\|420mm | **J-000.31.372** | **J-000.31.289** |
| with HRP binocular loupe | 4x\|340mm | **J-000.31.373** | **J-000.31.290** |
| with HRP binocular loupe | 6x\|340mm | **J-000.31.374** | **J-000.31.291** |

| | |
|---|---|
| 5 sterilisable swivel levers for i-View loupe mount for ML4 LED HeadLight [01] | **C-000.32.399** |

## HEINE ML4 LED HeadLight
## Power sources

[01]

[02]

[03]

| | |
|---|---|
| mPack and plug-in transformer [01] | **X-007.99.672** |
| Plug-in transformer for ML4 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.

**Original handles.**
**Original power sources.**
**Original bulbs.**
**100 % 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**
  - ▷ **BETA4 USB rechargeable handle** with USB cord and medical approved plug-in power supply
  - ▷ **BETA4 NT and BETA4 SLIM NT rechargeable handle** for NT4 table charger

- **Compatibility during your entire career.** The BETA4 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 NT4 table charger

## 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 |
|---|---|
| battery handle complete with bottom insert (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 Ø. 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 brightness 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

## HEINE BETA®4 NT rechargeable handle
## For NT4 table charger

[01]

- **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.

| BETA4 NT rechargeable handle for NT4 table charger | 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** |
| BETA belt clip [01] | **X-000.99.008** |

## HEINE BETA®4 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

[01] [02]

[03]

| BETA4 USB Li-ion rechargeable handle | 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** |
| USB cord [01] with E4-USB plug-in power supply [02] | **X-000.99.303** |
| E4-USB<br>medical approved plug-in power supply [02] | **X-000.99.305** |
| BETA belt clip [03] | **X-000.99.008** |

## HEINE BETA®4 SLIM NT
## rechargeable handle

Dimensions: 135 mm x 19 mm Ø. Weight: 180 g
A compact handle with automatic connector for those who prefer a slim handle.
Rechargeable in NT4 table charger fitted with the small adaptor ring.

| BETA4 SLIM NT rechargeable handle | 3.5 V Li-ion |
|---|---|
| rechargeable handle complete with rechargeable battery M3Z 4NT Li-ion and BETA4 SLIM NT bottom insert | **X-007.99.474** |
| BETA4 SLIM NT bottom insert | **X-000.99.110** |
| rechargeable battery M3Z 4NT Li-io | **X-007.99.380** |

- Power supplies may deviate in size and shape.
- For information on HEINE laryngoscope handles, see pages 84-87.

# 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.**

## 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 | 3.5 V 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 | 3.5 V Li-ion |
|---|---|
| BETA4 NT bottom insert, NT4 table charger | X-010.99.420 |

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

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

## 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 reprocessing.** 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 EN 200-1
- **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

- **The EN 200-1.** As an add-on or if only a single instrument is needed [01]

[01]

## HEINE EN 200
## diagnostic centre kits

[01]

| EN 200 kits* | 3.5 V LED |
|---|---|
| with EN 200 wall transformer,<br>BETA 400 LED F.O. otoscope,<br>BETA 200 LED ophthalmoscope [01] | **A-095.12.218** |
| with EN 200 wall transformer,<br>BETA 200 LED F.O. otoscope,<br>BETA 200 LED ophthalmoscope | **A-095.12.219** |
| with EN 200 wall transformer,<br>K180 LED F.O. otoscope,<br>K180 LED ophthalmoscope | **A-095.12.220** |

* without additional accessories

## HEINE EN 200-1
## dermatoscope kit

| EN 200-1 dermatoscope kit | LED |
|---|---|
| DELTA 20T dermatoscope with contact plate with scale,<br>EN 200-1 wall transformer (single unit with one handle)<br>as single module with long USB cord and<br>E4-USB plug-in power supply | **K-010.28.252** |

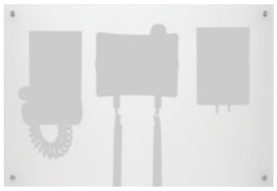
# HEINE EN 200 diagnostic centre – individual

[01] [02]

[03] [04]

[05] [06]

[07]



[08]

[09]

**Put together your individual diagnostic centre:**

The EN 200 wall transformer and additional components such as the AllSpec tip dispenser and the GAMMA XXL 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 diagnostic centre** | |
|---|---|
| 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 E4-USB plug-in power supply [02] | **X-095.12.252** |
| AllSpec tip dispenser, for EN 200 [03] | **B-000.11.149** |
| GAMMA XXL LF-W analogue sphygmomanometer [04] | **M-000.09.323** |
| 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 device combination EN 200\| tip dispenser [07] | **X-095.12.006** |
| wallboard for device combination GAMMA XXL LF-W \| EN 200 \| tip dispenser [08] | **X-095.12.007** |
| wallboard for device combination GAMMA XXL LF-WB \| cuff basket \| EN 200 \| tip dispenser [09] | **X-095.12.008** |

* without instruments

▶ For further information on HEINE sphygmomanometers and blood pressure cuffs, please refer to pages 106-111.

## HEINE
## large battery handle

Dimensions: 165 mm x 37 mm Ø. 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 retrofitted 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

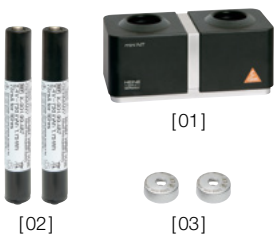
mini NT charger set 2.5 V: Consists of the mini NT table charger, 2 mini NT rechargeable batteries and 2 bottom inserts for the mini 3000 rechargeable handles. With this set, existing mini 3000 handles can be updated to the 2.5 V rechargeable system.
mini NT table charger: width: 112 mm, height: 50 mm, depth: 52 mm, weight 404 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 2.5 V NiMH rechargeable battery

**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** |




**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** |

*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 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 charging set OMEGA 600

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 wall charger (without OMEGA 600) | **X-095.17.320** |

- **Power supplies may deviate in size and shape.**

## HEINE HC 50L headband rheostat
## Fingertip illumination control for OMEGA 500

[01]

[02]

[03]

- **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 LED$^{HQ}$ illumination**

| HC 50L headband rheostat | 6 V |
|---|---|
| HC 50L headband rheostat<br>(without plug-in transformer and connecting cord) [01] | **X-095.16.325** |
| plug-in transformer for HC 50L headband rheostat [02] | **X-095.16.330** |
| connecting cord cinch to<br>EN 50 charger\|mPack\|plug-in transformer for HC 50L, 1,6 m [03] | **X-000.99.667** |

## HEINE EN 50 UNPLUGGED wall transformer
## 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**

| | |
|---|---|
| EN 50 UNPLUGGED wall transformer<br>(without mPack UNPLUGGED) 6 V | **X-095.17.310** |

- Power supplies may deviate in size and shape.

# HEINE mPack UNPLUGGED
## Headband-mounted rechargeable battery

Rechargeable battery for OMEGA 500 indirect binocular ophthalmoscope UNPLUGGED and ML4 LED HeadLight UNPLUGGED (system voltage 6 V).

[01]

[02]

[03]

- **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, typ. 7 hours for OMEGA 500 UNPLUGGED
- **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**

**mPack UNPLUGGED**

| | |
|---|---|
| mPack UNPLUGGED [01] | **X-007.99.665** |
| transformer UNPLUGGED for mPack UNPLUGGED [02] | **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 [03] | **X-000.99.668** |

- Power supplies may deviate in size and shape.

# HEINE mPack
# Portable power pack for OMEGA 500 and ML4 HeadLight

[01]

[02]

[03]

- **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 ML4 LED HeadLight, typ. 13 hours for OMEGA 500
- **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

| 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** |

- Power supplies may deviate in size and shape.

# HEINE EN 50 wall|table-transformer
# Modular power supply system|charger

The HEINE modular power supply system offers unsurpassed flexibility and innovative features. The EN 50 powers OMEGA 500 and ML4 LED HeadLight. Furthermore, all other HEINE 6 V products are compatibel. The EN 50 charger, the mPack and HC 50L headband mounted rheostat can be combined in every conceivable configuration.

[01]

- **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**

| EN 50 charger | 6 V |
|---|---|
| EN 50 transformator wall \| table 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 | **X-095.17.305** |
| EN 50 base unit (without rheostat control module) [02] | **X-095.17.300** |
| plug-in 90° angled adaptor (for EN 50\|mPack) [03] | **C-000.33.509** |
| instrument support for headband | **C-000.33.511** |

[02]

[03]

# HEINE mPack mini
# Power source for LoupeLight2|MicroLight2 and SIGMA 250

- **Freedom from cables** that tie the user to desk, wall or static power supplies
- **Operating time LoupeLight2|MicroLight2:** 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
- **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]

[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 [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** |

- Power supplies may deviate in size and shape.

NEW

# HEINE LED$^{HQ}$ modules
# Upgrade from XHL to the LED$^{HQ}$ module

For some of our otoscopes and hand-held ophthalmoscopes, a new upgrade in the form of a suitable LED$^{HQ}$ module is now available as an alternative to the XHL bulbs. This eliminates the need to repeatedly change the bulb and the costs associated with doing so, as the durability of an LED in HEINE quality is virtually unlimited.

### GENERAL MEDICINE AND ENT INSTRUMENTS

| Otoscope | 2.5 V | 3.5 V |
|---|---|---|
| BETA 400 F.O., BETA 200 F.O., K180 | **X-028.88.132** | **X-008.88.133** |

### OPHTHALMIC INSTRUMENTS

| Direct ophthalmoscopes | 2.5 V | 3.5 V |
|---|---|---|
| BETA 200S, BETA 200 | **X-028.88.134** | **X-008.88.135** |

| Retinoscope | 2.5 V | 3.5 V |
|---|---|---|
| BETA 200 | **X-028.88.130** | **X-008.88.131** |

### VET INSTRUMENTS

| | 2.5 V | 3.5 V |
|---|---|---|
| G100 slit illumination head,<br>BETA 200 VET otoscope | **X-028.88.132** | **X-008.88.133** |

▶ In this demonstration video, we show you how easy switching to the newer technology is.

## HEINE XHL® xenon halogen bulbs
## For optimum performance and cost-effectiveness

### GENERAL MEDICINE AND ENT INSTRUMENTS

| | Otoscopes | 2.5 V | 3.5 V |
|---|---|---|---|
| | alpha*, mini 2000* F.O. | **X-001.88.037** | – |
| | alpha+* F.O., BETA 100*, K100* | **X-001.88.037** | **X-002.88.049** |
| | mini 2000*, minilux* | **X-001.88.056** | – |
| | mini 3000 F.O. | **X-001.88.105** | – |
| | mini 3000 | **X-001.88.110** | – |

| | ENT instruments | 2.5 V | 3.5 V |
|---|---|---|---|
| | alpha* tongue blade holder and mini 3000 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* tongue blade holder | **X-001.88.037** | – |
| | tongue blade holder (BETA) | **X-001.88.037** | **X-002.88.049** |

*Instrument no longer available.

## HEINE XHL® xenon halogen bulbs
## For optimum performance and cost-effectiveness

| | Cliplights and combi lamps | 2.5 V | 3.5 V |
|---|---|---|---|
| | HEINE Cliplight* | **X-001.88.094** | – |
| | mini 2000* clip lamp, mini 1000* clip lamp, mini 2000* combi lamp, mini* Fibralux | **X-001.88.041** | – |
| | mini 3000 clip lamp, mini 3000 combi lamp | **X-001.88.107** | – |
| | mini 3000 laryngeal mirror* | **X-001.88.057** | – |
| | mini-c* clip lamp | **X-001.88.108** | – |

**OPHTHALMIC INSTRUMENTS**

| | Direct ophthalmoscopes | 2.5 V | 3.5 V |
|---|---|---|---|
| | alpha* | **X-001.88.042** | – |
| | alpha+* | **X-001.88.042** | **X-002.88.101** |
| | AUTOFOC* | **X-001.88.032** | **X-002.88.047** |
| | K180* | **X-001.88.084** | **X-002.88.086** |
| | mini 2000*, mini Miroflex* | **X-001.88.042** | – |
| | mini 3000 | **X-001.88.106** | – |
| | Miroflex* | **X-001.88.038** | **X-002.88.046** |

*Instrument no longer available.

## HEINE XHL® xenon halogen bulbs
## For optimum performance and cost-effectiveness

| | Other hand-held ophthalmic instruments | 2.5 V | 3.5 V |
|---|---|---|---|
| | alpha* Focalux | **X-001.88.042** | – |
| | alpha* ophthalmic examination light | **X-001.88.043** | **X-002.88.102** |
| | alpha+* Finoff transilluminator | **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* and HSL 150 hand-held slit lamp | **X-001.88.098** | **X-002.88.099** |
| | mini 2000* and mini 3000* Focalux | **X-001.88.042** | – |
| | ophthalmic examination lamp | **X-001.88.032** | **X-002.88.047** |

*Instrument no longer available.

## HEINE XHL® xenon halogen bulbs
## For optimum performance and cost-effectiveness

### OPHTHALMIC INSTRUMENTS

| Indirect ophthalmoscopes | 3.5 V | 6 V |
|---|---|---|
| indirect hand-held ophthalmoscope | X-002.88.050 | X-004.88.081 |
| OMEGA 100*, 150*, 180*, 200*, video OMEGA 2C video ophthalmoscope* | – | X-004.88.068 |
| OMEGA 500 5 W (standard equipment) | – | X-004.88.111 |
| SIGMA 150K*, 150 M2* headworn ophthalmoscope, SIGMA 150* ophthalmoscope | – | X-004.88.093 |

### VET INSTRUMENTS

| | 2.5 V | 3.5 V |
|---|---|---|
| BETA 100 VET* otoscope, operating otoscope* | X-001.88.037 | X-002.88.049 |

### LARYNGOSCOPES

| | 2.5 V | 3.5 V |
|---|---|---|
| F.O. laryngoscope handles, Angled F.O. laryngoscope handle* | X-001.88.035 | X-002.88.044 |
| F.O. SP laryngoscope lamp handle* | X-001.88.035 | – |

*Instrument no longer available.

## HEINE XHL® xenon halogen bulbs
## For optimum performance and cost-effectiveness

### DERMATOSCOPES AND ILLUMINATED LOUPES

| | Dermatoscopes | 2.5 V | 3.5 V |
|---|---|---|---|
| | alpha+* | **X-001.88.034** | **X-002.88.053** |
| | DERMAPHOT* 2,2 V vacuum bulb | **X-000.88.082** | – |
| | DELTA 10* | **X-001.88.038** | **X-002.88.046** |
| | mini 2000* | **X-001.88.034** | – |
| | mini 3000 | **X-001.88.109** | – |

| | Illuminated loupes | 2.5 V | 3.5 V |
|---|---|---|---|
| | alpha+* illuminated loupe 5 x, 8 x | **X-001.88.034** | **X-002.88.053** |
| | illuminated loupe* 5 x, 8 x (BETA) | **X-001.88.038** | **X-002.88.046** |

### PROCTOLOGICAL INSTRUMENTS

| | | 2.5 V | 3.5 V |
|---|---|---|---|
| | illumination adaptor for F.O. instruments | – | **X-002.88.078** |
| | proctoscope head for proximal illumination*, anoscope-\| proctoscope illumination head* | **X-001.88.040** | **X-002.88.051** |
| | spreadable anal speculum* | **X-001.88.035** | **X-002.88.044** |

| | | 6 V |
|---|---|---|
| | lamp handle* | **X-004.88.060** |

*Instrument no longer available.

## HEINE XHL® xenon halogen bulbs
## For optimum performance and cost-effectiveness

### EXAMINATION LIGHTS

| Headlights | 6 V |
|---|---|
| SL 350* | X-004.88.068 |
| UBL 100* spectacle-mounted illuminator for binocular loupes | X-004.88.080 |

| Examination lights | 12 V |
|---|---|
| HL 5000*, 50 W halogen bulb | J-005.27.111 |

### PROJECTORS

| | Halogen |
|---|---|
| F.O. projector HK 6000*, 7000*, 7000D* \| 150 W | Y-096.15.102 |
| F.O. projector mini* 20 W | Y-096.14.103 |
| F.O. projector uno*, endo*, multi* 150 W | Y-096.11.103 |

*Instrument no longer available.

# How to bring structure to your life.

## HEINE

## Carrying cases and storage cases

[01]

| | |
|---|---|
| soft pouch for otoscopes \| ophthalmoscopes (60 mm x 230 mm x 40 mm) [01] | **A-180.01.000** |

[02]

| | |
|---|---|
| zipper pouch for otoscopes (110 mm x 200 mm x 30 mm) [02] | **B-237.00.000** |

[03]

| | |
|---|---|
| case for binocular loupe sets (270 mm x 230 mm x 85 mm) [03] | **C-000.32.552** |

[04]

| | |
|---|---|
| case for LoupeLight2 \| MicroLight2 on S-FRAME and SIGMA 250 (270 mm x 270 mm x 150 mm) [04] | **C-000.32.553** |

[05]

| | |
|---|---|
| case for MicroLight2 on headband (270 mm x 270 mm x 150 mm) [05] | **C-000.32.554** |

[06]

| | |
|---|---|
| hard case for ophthalmic diagnostic sets C-034 (185 mm x 116 mm x 50 mm) [06] | **C-034.00.000** |

## HEINE

## Carrying cases and storage cases

[07]

| | |
|---|---|
| hard case for indirect ophthalmoscope sets<br>C-283 and C-284 (470 mm x 400 mm x 190 mm) [07] | **C-079.00.000** |

[08]

| | |
|---|---|
| combi-case for indirect ophthalmoscope sets<br>C-283 and C-284 (432 mm x 330 mm x 197 mm) [08] | **C-079.03.000** |

[09]

| | |
|---|---|
| hard case for ophthalmic diagnostic sets<br>C-261 and C-144 (185 mm x 116 mm x 50 mm) [09] | **C-144.06.000** |

[10]

| | |
|---|---|
| hard case for ophthalmic diagnostic sets<br>C-262 and C-145 (235 mm x 135 mm x 50 mm) [10] | **C-145.00.000** |

[11]

| | |
|---|---|
| OMEGA 600 traveller bag [11]<br>(Can be worn over the shoulder or as a backpack.) | **C-080.00.000** |

[12]

| | |
|---|---|
| hard case for LAMBDA 100 retinometer set<br>(235 mm x 135 mm x 50 mm) [12] | **C-187.06.000** |

## HEINE

## Carrying cases and storage cases

[13]

| | |
|---|---|
| soft pouch for mini<br>(95 mm x 185 mm x 35 mm) [13] | **D-861.00.000** |

[14]

| | |
|---|---|
| zipper case for mini 3000 dermatoscope<br>(205 mm x 95 mm x 55 mm) [14] | **D-887.00.000** |

[15]

| | |
|---|---|
| zipper case for laryngoscopes<br>(170 mm x 280 mm x 50 mm) [15] | **F-179.00.000** |

▶ Further cases on request.
Carrying cases and storage cases may deviate in shape and colour.

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