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

[01] Flat, elliptical illumination beam produced by HEINE’s patented Aspherical Optical System.
[02] Observation path.
[03] Redirected iris and corneal reflexes.
[04] The elliptical light beam enters through the lower half of the cornea. The illumination beam has been separated from the observation beam (Gullstrand-Principle). All reflexes are diverted away from the observation beam due to the curvature of the reflective cornea. Due to the flat, compressed form of the light beam, a maximum amount of light enters through the pupil.
[05] Once past the anterior chamber, the light beam opens up dramatically to illuminate a large area of the retina.
HEINE BETA® 200 S LED Ophthalmoscope

Superior aspherical optics now with LED\(^{HQ}\) illumination

Exclusive dustproof design protects the precision optical components and ensures maintenance-free operation. The BETA200/200 S Ophthalmoscopes are the only instruments with an aluminium frame system. Optical components are flush-mounted on a cast aluminium frame, eliminating misalignment and making the instrument shock-resistant. The BETA200 S LED has virtually unlimited hours of working life (up to 100,000 hours). No need to ever replace bulbs. Maintenance-free for a lifetime.

- **Exclusive aspherical optical system (AOS)** for more information see the bottom of page 034.
- **LED in HQ**: The new standard in LED illumination defining optimal light intensity, homogeneity and colour rendering for the most accurate diagnosis. Red is red, blue is blue. Colour temperature: 3,500K, Colour Rendering Index (CRI) > 97, special index for red colours (R9) > 93 on a maximum scale of 100.
- **Special optical interface to precisely integrate the LED illumination with the optical system to ensure bright, homogeneous light during examinations.**
- **The BETA200 S Ophthalmoscope** accommodates higher refractive errors with a 28 single lenses Rekoss Disc and features a 74 single step design on a non-continuous wheel avoiding extreme diopter jumps.
  - + in 1D steps: +1 through +38D
  - – in 1D steps: –1 through –36D
- **Exclusive continuous brightness control** between 100 % and 3 % (patent pending) with one-finger operation.
- **No stray light due to the recessed, multi-coated viewing window** – eliminates distractions.
- **Precise one-hand control of the instrument.** Ergonomic design offers flexibility while examining.
- **Suitable for large as well as small or undilated pupils.**
- **Ergonomic design fits the orbita comfortably, and blocks out ambient light.**
- **Full functionality of the BETA200 S LED is guaranteed with BETA Recharcheable Handels and the EN100 Wall Transformer.**

**BETA200 S LED Ophthalmoscope**

<table>
<thead>
<tr>
<th>Without handle</th>
<th>LED</th>
</tr>
</thead>
<tbody>
<tr>
<td>C-008.30.120</td>
<td></td>
</tr>
</tbody>
</table>

**HEINE BETA® 200 S Ophthalmoscope**

Superior aspherical optics with XHL illumination

BETA200 S Ophthalmoscope with XHL Xenon Halogen illumination instead of LED illumination. Other technical specifications the same as the BETA200 S LED Ophthalmoscope.

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

**BETA200 S Ophthalmoscope**

<table>
<thead>
<tr>
<th>Without handle</th>
<th>2.5V XHL</th>
<th>3.5V XHL</th>
</tr>
</thead>
<tbody>
<tr>
<td>C-001.30.120</td>
<td>C-002.30.120</td>
<td></td>
</tr>
</tbody>
</table>

**XHL Xenon Halogen spare bulb**

| X-001.88.069 | X-002.88.070 |

For information on HEINE battery and rechargeable handles, see pages 120 – 125.
HEINE BETA® 200 LED Ophthalmoscope

Superior aspherical optics now with LED HQ illumination

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

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

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

BETA 200 LED Ophthalmoscope

without handle

C-008.30.100

Full functionality of the BETA 200 LED is guaranteed with BETA Rechargeable Handels and the EN 100 Wall Transformer.

BETA 200 with 6 apertures

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

With red-free filter

HEINE BETA® 200 Ophthalmoscope

Superior aspherical optics with XHL illumination

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

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

BETA 200 Ophthalmoscope

without handle

C-001.30.100

C-002.30.100

XHL Xenon Halogen spare bulb

X-001.88.069

X-002.88.070

BETA 200 M2 Ophthalmoscope

BETA 200 M2 Ophthalmoscope, without handle. Like BETA 200, except with pinhole instead of small spot and with fixation star aperture without polar coordinates.

BETA 200 M2 apertures

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

With red-free filter
HEINE BETA® 200/200S Ophthalmic Diagnostic Sets

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

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

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

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

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

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

<table>
<thead>
<tr>
<th>BETA 200S Ophthalmoscope Sets</th>
<th>2.5 V XHL</th>
<th>3.5 V XHL</th>
<th>3.5 V XHL/LED*</th>
</tr>
</thead>
<tbody>
<tr>
<td>BETA battery handle</td>
<td>C-262.10.118</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BETA 4 USB rechargeable handle with USB cord and plug-in power supply</td>
<td>C-262.27.388</td>
<td>C-262.25.388</td>
<td></td>
</tr>
<tr>
<td>BETA 4 USB rechargeable handle</td>
<td>C-262.27.387</td>
<td>C-262.25.387</td>
<td></td>
</tr>
<tr>
<td>BETA 4 NT rechargeable handle with NT 4 table charger</td>
<td>C-262.23.420</td>
<td>C-262.25.420</td>
<td></td>
</tr>
</tbody>
</table>

* BETA 200 Streak Retinoscope with XHL illumination and BETA 200 S LED Ophthalmoscope with LED illumination.

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

<table>
<thead>
<tr>
<th>BETA 200S Ophthalmoscope Sets</th>
<th>2.5 V XHL</th>
<th>3.5 V XHL</th>
<th>3.5 V XHL/LED*</th>
</tr>
</thead>
<tbody>
<tr>
<td>BETA battery handle</td>
<td>C-145.10.118</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BETA 4 USB rechargeable handle with USB cord and plug-in power supply</td>
<td>C-145.27.388</td>
<td>C-145.25.388</td>
<td></td>
</tr>
<tr>
<td>BETA 4 USB rechargeable handle</td>
<td>C-145.27.387</td>
<td>C-145.25.387</td>
<td></td>
</tr>
<tr>
<td>BETA 4 NT rechargeable handle with NT 4 table charger</td>
<td>C-145.23.420</td>
<td>C-145.25.420</td>
<td></td>
</tr>
</tbody>
</table>

* BETA 200 Streak Retinoscope with XHL illumination and BETA 200 LED Ophthalmoscope with LED illumination.

New BETA 4 Handle range – for more information see pages 120 – 122.
HEINE Diagnostic Sets

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

### Diagnostic Sets

<table>
<thead>
<tr>
<th></th>
<th>2.5 V XHL</th>
<th>3.5 V XHL</th>
<th>LED</th>
</tr>
</thead>
<tbody>
<tr>
<td>BETA battery handle</td>
<td>A-132.10.118</td>
<td></td>
<td></td>
</tr>
<tr>
<td>✷ BETA 4 USB rechargeable handle with USB cord and plug-in power supply</td>
<td>✷ A-132.27.388</td>
<td>✷ A-132.28.388</td>
<td></td>
</tr>
<tr>
<td>✷ BETA 4 USB rechargeable handle</td>
<td>✷ A-132.27.387</td>
<td></td>
<td></td>
</tr>
<tr>
<td>✷ BETA 4 NT rechargeable handle with NT 4 table charger</td>
<td>✷ A-132.23.420</td>
<td>✷ A-132.24.420</td>
<td></td>
</tr>
</tbody>
</table>

**NEW! Now also available with LED illumination**

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

### Diagnostic Sets

<table>
<thead>
<tr>
<th></th>
<th>2.5 V XHL</th>
<th>3.5 V XHL</th>
<th>3.5 V XHL/LED*</th>
</tr>
</thead>
<tbody>
<tr>
<td>BETA battery handle</td>
<td>A-234.10.118</td>
<td></td>
<td></td>
</tr>
<tr>
<td>✷ BETA 4 USB rechargeable handle with USB cord and plug-in power supply</td>
<td>✷ A-234.27.388</td>
<td>✷ A-234.25.388</td>
<td></td>
</tr>
<tr>
<td>✷ BETA 4 USB rechargeable handle</td>
<td>✷ A-234.27.387</td>
<td></td>
<td></td>
</tr>
<tr>
<td>✷ BETA 4 NT rechargeable handle with NT 4 table charger</td>
<td>✷ A-234.23.420</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

**NEU** New BETA 4 Handle range – for more information see pages 120 – 122.
HEINE K180® Ophthalmoscope

A full-featured instrument at an economical price.

- **Precision spherical HEINE optics.** Corneal and iris reflexes are eliminated.
- **XHL Xenon Halogen Technology.** Bright, white light. Clear retinal image.
- **Range of lenses:** 27 lenses from -35 D to +40 D. Brilliant image even at high corrections.
  - in 1 D steps: 1 – 10 15 20 40  D
  - in 1 D steps: 1 – 10 15 20 25 35 D
- **Ergonomical shape.** The instrument fits the orbita comfortably.
- **Soft orbital rest.** Steadies the instrument and protects your glasses.
- **Choice of 5 apertures.** For both large and small pupils. Choice of fixation star or cobalt blue filter for corneal examination.
- **Dust resistant housing.** Maintenance-free.
- **High-high impact polycarbonate housing for durability.**

### K180 Ophthalmoscope

<table>
<thead>
<tr>
<th>K180 Ophthalmoscope</th>
<th>2.5 V XHL</th>
<th>3.5 V XHL</th>
</tr>
</thead>
<tbody>
<tr>
<td>with aperture wheel 1, without handle</td>
<td>C-001.30.206</td>
<td>C-002.30.206</td>
</tr>
<tr>
<td>with aperture wheel 2, with cobalt blue filter, without handle</td>
<td>C-001.30.207</td>
<td>C-002.30.207</td>
</tr>
<tr>
<td>XHL Xenon Halogen spare bulb</td>
<td>X-001.88.084</td>
<td>X-002.88.086</td>
</tr>
</tbody>
</table>

### K180 apertures

- **Aperture wheel 1:** Slit, red-free filter, fixation star with polar coordinates, large spot, small spot
- **Aperture wheel 2:** Slit, red-free filter, cobalt blue filter, large spot, small spot

For information on HEINE battery and rechargeable handles, see pages 120 – 125.
HEINE K180® Diagnostic Sets

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

<table>
<thead>
<tr>
<th>K180 Ophthalmoscope Sets</th>
<th>2.5 V XHL</th>
<th>3.5 V XHL</th>
</tr>
</thead>
<tbody>
<tr>
<td>BETA battery handle</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BETA 4 USB rechargeable handle with USB cord and plug-in power supply</td>
<td>C-182.27.388</td>
<td></td>
</tr>
<tr>
<td>BETA 4 USB rechargeable handle</td>
<td>C-182.27.387</td>
<td></td>
</tr>
<tr>
<td>BETA 4 NT rechargeable handle with NT 4 table charger</td>
<td>C-182.23.420</td>
<td></td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>K180 Diagnostic Sets</th>
<th>2.5 V XHL</th>
<th>3.5 V XHL</th>
</tr>
</thead>
<tbody>
<tr>
<td>BETA battery handle</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BETA 4 USB rechargeable handle with USB cord and plug-in power supply</td>
<td>A-279.27.388</td>
<td></td>
</tr>
<tr>
<td>BETA 4 USB rechargeable handle</td>
<td>A-279.27.387</td>
<td></td>
</tr>
<tr>
<td>BETA 4 NT rechargeable handle with NT 4 table charger</td>
<td>A-279.23.420</td>
<td></td>
</tr>
</tbody>
</table>

New BETA 4 Handle range – for more information see pages 120 – 122.
HEINE mini3000® LED Ophthalmoscope

with LED illumination in HEINE Quality – LEDHQ

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

- Maintenance-free, no need to ever replace the LED.
- LED Thermal management for a consistent light output throughout the whole working life.
- LED in HQ: The new standard in LED illumination defining optimal light intensity, homogeneity and colour rendering for the most accurate diagnosis. Red is red, blue is blue. Colour temperature: 4,000K, Colour Rendering Index (CRI) > 95, special index for red colours (R9) > 90 on a maximum scale of 100.
- 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.
- Exclusive fade-out function reduces illumination intensity with battery level to let you know when to replace.
- Operation time up to 10 hours. The batteries need to be changed less often and the rechargeable batteries last longer.

- For further technical specifications, please see mini3000 Ophthalmoscope with XHL illumination on page 043.

<table>
<thead>
<tr>
<th>mini3000 LED Ophthalmoscope</th>
<th>2.5V LED</th>
</tr>
</thead>
<tbody>
<tr>
<td>with mini3000 battery handle, with batteries</td>
<td>D-008.71.120</td>
</tr>
<tr>
<td>with mini3000 rechargeable handle (please order mini/NT table charger separately)</td>
<td>D-008.71.200</td>
</tr>
<tr>
<td>without handle</td>
<td>D-008.71.105</td>
</tr>
</tbody>
</table>

mini3000 apertures

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

To upgrade to a rechargeable instrument with mini NT table charger, please see page 125.
HEINE mini3000® LED Diagnostic Sets

Set complete with: mini3000 LED Ophthalmoscope
hard case

<table>
<thead>
<tr>
<th>mini3000 LED Ophthalmoscope Set</th>
<th>2.5V LED</th>
</tr>
</thead>
<tbody>
<tr>
<td>mini3000 battery handle with batteries</td>
<td>D-885.21.021</td>
</tr>
</tbody>
</table>

Set complete with: mini3000 LED Ophthalmoscope, mini3000 LED F.O. Otoscope
1 set = 4 reusable tips (B-000.11.111)
5 of both 2.5 and 4 mm dia. AllSpec disposable tips
hard case

<table>
<thead>
<tr>
<th>mini3000 LED Ophthalmoscope, mini3000 LED F.O. Otoscope Set</th>
<th>2.5V LED</th>
</tr>
</thead>
<tbody>
<tr>
<td>with 2 mini3000 battery handles with batteries</td>
<td>D-886.11.021</td>
</tr>
</tbody>
</table>

Set complete with: mini3000 LED Ophthalmoscope, mini3000 LED F.O. Otoscope
mini NT table charger
5 of both 2.5 and 4 mm dia. AllSpec disposable tips

<table>
<thead>
<tr>
<th>mini3000 LED Ophthalmoscope, mini3000 LED F.O. Otoscope Set</th>
<th>2.5V LED</th>
</tr>
</thead>
<tbody>
<tr>
<td>with 2 mini3000 rechargeable handles</td>
<td>D-860.11.022*</td>
</tr>
</tbody>
</table>

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

HEINE mini3000 pocket instruments – a complete range of quality diagnostic instruments for your pocket. Available in black or blue. Please specify the colour you prefer when ordering. If not otherwise specified, we will supply black instruments.
HEINE mini 3000® Ophthalmoscope

Compact Pocket Ophthalmoscope with XHL illumination

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

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

<table>
<thead>
<tr>
<th>+ 1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>6</th>
<th>8</th>
<th>10</th>
<th>15</th>
<th>20 D</th>
</tr>
</thead>
<tbody>
<tr>
<td>- 1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>6</td>
<td>8</td>
<td>10</td>
<td>15</td>
<td>20 D</td>
</tr>
</tbody>
</table>

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

mini 3000 Ophthalmoscope

<table>
<thead>
<tr>
<th>2.5 V XHL</th>
</tr>
</thead>
<tbody>
<tr>
<td>with mini 3000 battery handle, with batteries D-001.71.120</td>
</tr>
<tr>
<td>with mini 3000 rechargeable handle</td>
</tr>
<tr>
<td>(please order mini NT table charger separately) D-001.71.200</td>
</tr>
<tr>
<td>without handle D-001.71.105</td>
</tr>
</tbody>
</table>

XHL Xenon Halogen spare bulb X-001.88.106

mini 3000 apertures

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

* To upgrade to a rechargeable instrument with mini NT table charger, please see page 125.
HEINE mini3000® Diagnostic Sets

Set complete with: **mini3000 Ophthalmoscope**
- hard case

<table>
<thead>
<tr>
<th>mini3000 Ophthalmoscope Set</th>
<th>2.5 V XHL</th>
</tr>
</thead>
<tbody>
<tr>
<td>mini3000 battery handle with batteries</td>
<td>D-852.10.021</td>
</tr>
</tbody>
</table>

Set complete with: **mini3000 Ophthalmoscope, mini3000 F.O. Otoscope**
- 1 set = 4 reusable tips (B-000.11.111)
- 5 of both 2.5 and 4 mm dia. AllSpec disposable tips
- hard case

<table>
<thead>
<tr>
<th>mini3000 Ophthalmoscope, mini3000 F.O. Otoscope Set</th>
<th>2.5 V XHL</th>
</tr>
</thead>
<tbody>
<tr>
<td>with 2 mini3000 battery handles with batteries</td>
<td>D-873.11.021</td>
</tr>
<tr>
<td>as above but with <strong>mini3000 Otoscope</strong> instead of <strong>mini3000 F.O. Otoscope</strong></td>
<td>D-873.21.021</td>
</tr>
</tbody>
</table>

Set complete with: **mini3000 Ophthalmoscope, mini3000 F.O. Otoscope**
- mini NT table charger
- 5 of both 2.5 and 4 mm dia. AllSpec disposable tips

<table>
<thead>
<tr>
<th>mini3000 Ophthalmoscope, mini3000 F.O. Otoscope Set</th>
<th>2.5 V XHL</th>
</tr>
</thead>
<tbody>
<tr>
<td>with 2 mini3000 rechargeable handles</td>
<td>D-859.11.022*</td>
</tr>
</tbody>
</table>

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

HEINE mini3000 pocket instruments – a complete range of quality diagnostic instruments for your pocket. Available in black or blue. Please specify the colour you prefer when ordering. If not otherwise specified, we will supply black instruments.

For information on HEINE battery and rechargeable handles, see pages 120 – 125.
Hand-held retinoscopes for objective refraction. The BETA 200 Retinoscope is used for the exact measurement of the refractive error. Both myopia and hyperopia as well as astigmatism can be measured.

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

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

HEINE BETA® 200 Retinoscope with HEINE ParaStop®
HEINE ParaStop® for total precision in selecting a parallel beam

- ParaStop. Precise, easy selection of a parallel beam.
- Ergonomic shape. Protects the examiner’s orbita from stray light.
- XHL Xenon Halogen Technology. Bright, white light. Bright fundus reflex, easy recognition of neutralisation point.
- Streak or Spot Retinoscope. Simply by changing the bulb.
- Metal controls. Long-lasting.
- Single control for vergence and rotation. Comfortable operation.
- Dustproof. Maintenance-free.
- Integrated polarisation filter. Eliminates stray light and internal reflexes for a brighter fundus reflex.
- Orange filter (optional). Reduces patient dazzle without affecting the fundus reflex.
- Detachable brow rest. Increased comfort and control during examination.
- Holder for fixation cards (optional). For dynamic retinoscopy.

<table>
<thead>
<tr>
<th>BETA200 Streak Retinoscope</th>
<th>2.5 V XHL</th>
<th>3.5 V XHL</th>
</tr>
</thead>
<tbody>
<tr>
<td>with XHL Xenon Halogen bulb, without handle</td>
<td>C-001.15.353</td>
<td>C-002.15.353</td>
</tr>
<tr>
<td>XHL Xenon Halogen spare bulb</td>
<td>X-001.88.087</td>
<td>X-002.88.089</td>
</tr>
<tr>
<td>XHL Xenon Halogen spare bulb to convert to Spot Retinoscope</td>
<td>X-001.88.088</td>
<td>X-002.88.090</td>
</tr>
</tbody>
</table>

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

For information on HEINE battery and rechargeable handles, see pages 120 – 125.
HEINE Ophthalmic Diagnostic Sets

Set complete with: **BETA200 Streak Retinoscope**
1 spare bulb
hard case

<table>
<thead>
<tr>
<th>BETA 200 Skiaskop Sets</th>
<th>2.5 V XHL</th>
<th>3.5 V XHL</th>
</tr>
</thead>
<tbody>
<tr>
<td>BETA battery handle</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BETA 4 USB rechargeable handle with USB cord and plug-in power supply</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BETA 4 USB rechargeable handle</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BETA 4 NT rechargeable handle with NT 4 table charger</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

Set complete with: **BETA200 S Ophthalmoscope in XHL or LED,**
**BETA200 Streak Retinoscope**
1 spare bulb for each instrument for XHL version
hard case

<table>
<thead>
<tr>
<th>BETA200S Diagnostic Sets</th>
<th>2.5 V XHL</th>
<th>3.5 V XHL</th>
<th>3.5 V XHL/LED*</th>
</tr>
</thead>
<tbody>
<tr>
<td>BETA battery handle</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BETA 4 USB rechargeable handle with USB cord and plug-in power supply</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BETA 4 USB rechargeable handle</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BETA 4 NT rechargeable handle with NT 4 table charger</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*BETA200 Streak Retinoscope with XHL illumination and BETA200 S LED Ophthalmoscope with LED illumination.

Set complete with: **BETA200 Ophthalmoscope in XHL or LED,**
**BETA200 Streak Retinoscope**
1 spare bulb for each instrument for XHL version
hard case

<table>
<thead>
<tr>
<th>BETA200 Diagnostic Sets</th>
<th>2.5 V XHL</th>
<th>3.5 V XHL</th>
<th>3.5 V XHL/LED*</th>
</tr>
</thead>
<tbody>
<tr>
<td>BETA battery handle</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BETA 4 USB rechargeable handle with USB cord and plug-in power supply</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BETA 4 USB rechargeable handle</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BETA 4 NT rechargeable handle with NT 4 table charger</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*BETA200 Streak Retinoscope with XHL illumination and BETA200 LED Ophthalmoscope with LED illumination.

New BETA4 Handle range – for more information see pages 120 – 122.
HEINE® HSL 150 Hand-held Slit Lamp
for the examination of the anterior segment

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

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

### HSL150 for BETA or BETA SLIM handles

<table>
<thead>
<tr>
<th></th>
<th>2.5 V XHL</th>
<th>3.5 V XHL</th>
</tr>
</thead>
<tbody>
<tr>
<td>HSL 150, head only</td>
<td>C-001.14.602</td>
<td>C-002.14.602</td>
</tr>
<tr>
<td>XHL Xenon Halogen spare bulb</td>
<td>X-001.88.098</td>
<td>X-002.88.099</td>
</tr>
<tr>
<td>Replacement blue filter attachment for HSL 150</td>
<td>C-000.14.605</td>
<td></td>
</tr>
</tbody>
</table>

HEINE® HSL 10 x Loupe Attachment
Loupe attachment with 10 x magnification

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

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

### HSL10 x Loupe Attachment

<table>
<thead>
<tr>
<th></th>
<th>2.5 V XHL</th>
<th>3.5 V XHL</th>
</tr>
</thead>
<tbody>
<tr>
<td>HSL 10 x Loupe Attachment</td>
<td>C-000.14.606</td>
<td></td>
</tr>
</tbody>
</table>

HEINE® HSL 150 Hand-held Slit Lamp Sets

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

<table>
<thead>
<tr>
<th>Hand-held Slit Lamp Sets</th>
<th>2.5 V XHL</th>
<th>3.5 V XHL</th>
</tr>
</thead>
<tbody>
<tr>
<td>BETA SLIM battery handle, in soft pouch, without spare bulb [01]</td>
<td>C-252.10.105</td>
<td></td>
</tr>
<tr>
<td><em><em>BETA 4 SLIM NT rechargeable handle and NT4 table charger</em>, spare bulb, in hard case</em>*</td>
<td>C-266.20.471</td>
<td></td>
</tr>
</tbody>
</table>

* NT4 table charger incl. reducer insert

New BETA4 Handle range – for more information see pages 120 – 122.
HEINE® LAMBDA 100 Retinometer

for assessing potential visual acuity

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

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

Three simple steps to potential acuity assessment with LAMBDA 100

1. Switch on instrument, select acuity, select grating angle, reduce ambient lighting.
2. Rest Retinometer against the patient’s forehead. Scan the pupil with the red light spot to find a “window” through which the patient can recognize the grating pattern and identify its angle.
3. Select progressively-finer grating patterns with different angles until the patient can no longer recognize the angle. The value of the last recognizable angle indicates potential acuity.

LAMBDA 100 Retinometer

<table>
<thead>
<tr>
<th>2.5 V XHL</th>
<th>3.5 V XHL</th>
</tr>
</thead>
<tbody>
<tr>
<td>with acuity scale 20/300 to 20/25 (scale 2), without handle</td>
<td>C-001.35.015</td>
</tr>
<tr>
<td>with acuity scale 0.06 to 0.8 (decimal scale 1), without handle</td>
<td>C-001.35.010</td>
</tr>
</tbody>
</table>

XHL Xenon Halogen spare bulb

| X-001.88.077 | X-002.88.078 |

Patient card [01]

C-000.35.005

LAMBDA 100

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

<table>
<thead>
<tr>
<th>0°</th>
<th>20/20</th>
</tr>
</thead>
<tbody>
<tr>
<td>Visus = 0.5</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>45°</th>
<th>20/20</th>
</tr>
</thead>
<tbody>
<tr>
<td>Visus = 0.32</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>90°</th>
<th>20/300</th>
</tr>
</thead>
<tbody>
<tr>
<td>Visus = 0.06</td>
<td></td>
</tr>
</tbody>
</table>
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 100mm working distance.

<table>
<thead>
<tr>
<th>Ophthalmic Examination Lamp</th>
<th>2.5 V XHL</th>
<th>3.5 V XHL</th>
</tr>
</thead>
<tbody>
<tr>
<td>without handle</td>
<td>C-001.14.400</td>
<td>C-002.14.400</td>
</tr>
</tbody>
</table>

| XHL Xenon Halogen spare bulb | X-001.88.032 | X-002.88.047 |

Aperture combination

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

HEINE Finoff Transilluminator

for scleral transillumination

- Detachable Cobalt blue filter. Suitable for fluorescence examinations.

<table>
<thead>
<tr>
<th>Finoff Transilluminator</th>
<th>2.5 V XHL</th>
<th>3.5 V XHL</th>
</tr>
</thead>
<tbody>
<tr>
<td>for scleral transillumination, without handle</td>
<td>C-001.17.080</td>
<td>C-002.17.080</td>
</tr>
</tbody>
</table>

| XHL Xenon Halogen spare bulb | X-001.88.077 | X-002.88.078 |

| Aperture with Cobalt blue filter for Finoff Transilluminator [01] | C-000.17.081 |
HEINE Indirect Ophthalmoscopes

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

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

▶ Undiluted Pupils and viewing in the Periphery. In cases of pupils that can not, or should not be dilated, a binocular view with full illumination is not possible without adjustments of the optical system [02]. By adjusting the Small and Variable Pupil Control Lever located on the bottom of the OMEGA Series instruments, the angle of convergence between left and right observation paths is reduced and the angle of parallax (light path) is automatically reduced in one, simple step. The observer can now enjoy a fully illuminated, binocular view with excellent stereopsis [03] even through a pupil as small as 1 mm in diameter, or in cases where the pupil appears as an ellipse as a result of viewing the periphery.
HEINE OMEGA® 500 Binocular Indirect Ophthalmoscope

Quality with LED or XHL Xenon-Halogen lamp illumination

With its XHL Xenon-Halogen-Technology and perfect colour rendering, the OMEGA 500 has set the standard for reliability and performance.

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

Technical Specifications:

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

LED-Technology for HEINE OMEGA® 500:

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

- LED in HQ: The new standard in LED illumination defining optimal light intensity, homogeneity and colour rendering for the most accurate diagnosis. Red is red, blue is blue. Colour temperature: 4,000K, Colour Rendering Index (CRI) >90, special index for red colours (R9) >75 on a maximum scale of 100.
- Special optical interface to precisely integrate the LED illumination with the optical system to ensure bright, homogeneous light throughout the whole working life of the LED of up to 20,000 hours – for an accurate diagnosis.
- With the Rheostat HC50L the light intensity can be precisely adjusted – especially in the range of low light intensities.
- Convert your XHL Xenon Halogen OMEGA 500 to LED: With an upgrade kit the OMEGA 500 can easily and quickly be adapted to the new technology.
HEINE OMEGA® 500 Headband

with unique features

> **Articulating hinge** provides vertical adjustment of the rear band of the headband for individual placement. Secure and perfect fit for all shapes and sizes.

> **Ergonomic design** for optimal weight transfer across the surface of the entire headband (no pressure points).

> **Softer, malleable material.** Provides even and comfortable fit of the headband.

> **Calibrated overband position** ensures optics are in true horizontal position for precise adjustment and alignment.

> **Integrated cables** in overband eliminates the usual “cable loop” from instrument to headband.

> **Registered design.**

**Technical Specifications:**

> **HC 50 L Headband Rheostat:** Easily mounted on the left or right sides of the headband [01].

> **Integrated flip-up adjustment:** To raise optics out of the line of sight. Can be mounted on the left or right side of the headband. Optics can be flipped and locked at 0°, 12.5°, 47.5°, 60° degrees [02].

> **Mechanically reinforced adjustment mechanisms:** For durability and precise adjustment of the headband.

HEINE OMEGA® 500 Binocular Indirect Ophthalmoscope

Optimum performance and quality

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

Extension Cord Cinch-Cinch, 2 m [01] C-000.33.510
Connecting Cord Cinch to EN50 charger/mPack/plug-in transformer for HC 50 L, 1,6 m [02] X-000.99.667
HC 50 L Headband Rheostat (without plug-in transformer) X-095.16.325
Plug-in transformer for HC 50 L Headband Rheostat X-095.16.330
Teaching mirror [03] C-000.33.209
HEINE OMEGA® 500 Kits

XHL OMEGA500 LED Conversion Kits.
With these kits, a XHL illumination OMEGA500 can be converted to LED illumination.

<table>
<thead>
<tr>
<th>Upgrade-Kits OMEGA500</th>
<th>LED – 6V</th>
</tr>
</thead>
<tbody>
<tr>
<td>Upgrade-Kit OMEGA500 with LED module [01] and HC50 L [02]</td>
<td>X-008.16.325</td>
</tr>
<tr>
<td>LED module for OMEGA500 [01]</td>
<td>X-008.87.200</td>
</tr>
</tbody>
</table>

OMEGA500 Kits
Recommended product order configurations to ensure the most flexibility the OMEGA500/EN50 System has to offer. The following kits include main system elements but no carrying cases or ancillary accessories.

<table>
<thead>
<tr>
<th>OMEGA500 Kits</th>
<th>XHL – 6V</th>
<th>LED – 6V</th>
</tr>
</thead>
<tbody>
<tr>
<td>Consists of OMEGA500, HC50L Headband Rheostat, connecting cord Cinch</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Kit 1: with plug-in transformer for HC50L</td>
<td>C-004.33.537</td>
<td>C-008.33.531</td>
</tr>
<tr>
<td>Kit 2: with EN50 transformer complete (incl. EN50 Rheostat Control Module, extension cord Cinch-Cinch 2m, 90° angled adaptor, instrument support)</td>
<td>C-004.33.538</td>
<td></td>
</tr>
<tr>
<td>Kit 3: with mPack and plug-in transformer (incl. 90° angled adaptor) [01]</td>
<td>C-004.33.539</td>
<td>C-008.33.533</td>
</tr>
</tbody>
</table>

HEINE OMEGA® 500 Sets

Set complete with OMEGA500 Head-worn Indirect Ophthalmoscope
1 scleral depressor large, 1 scleral depressor small, A.R. 20D ophthalmoscopy lens, pad with 50 fundus charts, teaching mirror, 1 spare bulb if with XHL illumination, in hard case with:

<table>
<thead>
<tr>
<th>OMEGA 500 Sets</th>
<th>XHL – 6V</th>
<th>LED – 6V</th>
</tr>
</thead>
<tbody>
<tr>
<td>HC50L Headband Rheostat with plug-in transformer (incl. connecting cord Cinch)</td>
<td>C-283.40.320</td>
<td>C-283.41.320</td>
</tr>
<tr>
<td>EN50-m Charger with mPack, HC50L Headband Rheostat (incl. connecting cord Cinch, 90° angled adaptor, 2m extension cord Cinch-Cinch, instrument support)</td>
<td>C-283.40.302</td>
<td></td>
</tr>
<tr>
<td>mPack with plug-in transformer, HC50L Headband Rheostat (incl. connecting cord Cinch, 90° angled adaptor)</td>
<td>C-283.40.670</td>
<td>C-283.41.670</td>
</tr>
</tbody>
</table>

For information on HEINE power sources see pages 120 – 129.
HEINE OMEGA® 500 UNPLUGGED

with headband battery mPack UNPLUGGED

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

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

### OMEGA 500 UNPLUGGED Kits

Consists of OMEGA 500, HC 50 L Headband Rheostat, without case:

<table>
<thead>
<tr>
<th>Kit</th>
<th>Description</th>
<th>XHL – 6V</th>
<th>LED – 6V</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>with plug-in transformer UNPLUGGED, 1 x mPack UNPLUGGED</td>
<td>C-004.33.541</td>
<td>C-008.33.535</td>
</tr>
<tr>
<td>6</td>
<td>with Wall unit EN 50 UNPLUGGED charger, 2 x mPack UNPLUGGED</td>
<td>C-004.33.542</td>
<td>C-008.33.536</td>
</tr>
<tr>
<td>7</td>
<td>with Wall unit EN 50 UNPLUGGED charger, 1 x mPack UNPLUGGED</td>
<td>C-004.33.543</td>
<td>C-008.33.537</td>
</tr>
</tbody>
</table>

XHL Xenon Halogen spare bulb 6V, 5W, standard X-004.88.111

Extension cord from plug-in transformer UNPLUGGED to mPack UNPLUGGED, 2m X-000.99.668

### OMEGA 500 UNPLUGGED Set

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

<table>
<thead>
<tr>
<th>OMEGA 500 UNPLUGGED Set</th>
<th>XHL – 6V</th>
<th>LED – 6V</th>
</tr>
</thead>
<tbody>
<tr>
<td>mPack UNPLUGGED and plug-in transformer UNPLUGGED</td>
<td>C-284.40.670</td>
<td>C-284.41.670</td>
</tr>
</tbody>
</table>

For information on HEINE EN 50 UNPLUGGED and mPack UNPLUGGED see page 127.
HEINE OMEGA® 500 with DV 1 Digital Video Camera

High-resolution digital imaging of the fundus

- **1280 x 960 imaging.** Capable of capturing high-resolution videos or still shots of examinations. Perfect for sharing the examiner’s view with a wider audience and for educating patients.
- **Simple operation.** Digital imaging without any additional adjustments. Simply start recording and the image as seen through the OMEGA500 will be displayed on the screen.
- **Comfortable and balanced fit.** The OMEGA 500 headband distributes the low weight of the compact camera and optics perfectly and ensures a comfortable fit.
- **Integrated focus adjustment.** The high depth of focus combined with an easily accessible focus adjustment, even for the assistant, ensures crisp, in-focus imaging.
- **Interface and software.** Will plug into any laptop or computer via USB 2.0 interface. Supplied with software program for video recording and image capture.
- **Cable-free power source system** with mPack UNPLUGGED rechargeable battery.
- **Integrated camera design.** The integrated camera system ensures precise alignment with the optical system of the Indirect Ophthalmoscope. Robust, dustproof design. No further adjustment of mirrors necessary for digital imaging.

### OMEGA500 with DV 1

<table>
<thead>
<tr>
<th>Model</th>
<th>XHL – 6V</th>
<th>LED – 6V</th>
</tr>
</thead>
<tbody>
<tr>
<td>OMEGA500 with DV 1 and mPack with plug-in transformer</td>
<td>C-004.33.560</td>
<td>C-008.33.560</td>
</tr>
<tr>
<td>OMEGA500 with DV 1 and mPack UNPLUGGED with plug-in transformer</td>
<td>C-004.33.561</td>
<td>C-008.33.561</td>
</tr>
<tr>
<td>OMEGA500 with DV 1 and mPack UNPLUGGED with EN 50 UNPLUGGED</td>
<td>C-004.33.562</td>
<td>C-008.33.562</td>
</tr>
<tr>
<td>OMEGA500 with DV 1 and USB 2.0 cord</td>
<td>C-004.33.563</td>
<td>C-008.33.563</td>
</tr>
</tbody>
</table>

- XHL Xenon Halogen spare bulb  | X-004.88.111 |
- USB 2.0 cord for OMEGA500 with DV 1 | X-000.99.206 |

For more information, please refer to [http://dv1.heine.com/](http://dv1.heine.com/)

HEINE OMEGA® 500 with DV 1 Sets

Set complete with: OMEGA500 Head-worn Indirect Ophthalmoscope with DV1 Digital Video Camera,
HC50L Headband Rheostat, USB 2.0 cord, 1 scleral depressor large, 1 scleral depressor small, A.R. 20 D ophthalmoscopy lens, pad with 50 fundus charts, 1 spare bulb if with XHL illumination, in hard case with:

<table>
<thead>
<tr>
<th>Model</th>
<th>XHL – 6V</th>
<th>LED – 6V</th>
</tr>
</thead>
<tbody>
<tr>
<td>mPack UNPLUGGED and plug-in transformer</td>
<td>C-176.40.670</td>
<td>C-176.41.670</td>
</tr>
</tbody>
</table>
HEINE SIGMA® 250 Binocular Indirect Ophthalmoscope

Spectacle-mounted Ophthalmoscope – with LEDHQ 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. The illumination beam can be adjusted by ±3° to eliminate reflexes.

- Extremely light, 110g without frame. Light and comfortable.
- LED in HQ: The new standard in LED illumination defining optimal light intensity, homogeneity and colour rendering for the most accurate diagnosis. Red is red, blue is blue. Colour temperature: 4,500K, Colour Rendering Index (CRI) >90, special index for red colours (R9) > 75 on a maximum scale of 100.
- Carbon fiber frame. Perfect combination of durability and light weight.
- Illumination beam adjustable ±3°. Eliminates reflexes.
- Integrated red-free filter. Improves contrast.
- Detachable blue and yellow filters. For Fluorescence Angioscopy.
- 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.
- mPack LL with Lithium-ion battery technology – for 23 hours of continuous ON time at full power.

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

Large pupil  Small pupil  Peripheral view

Parallax adjustment  Convergence adjustment

HEINE SIGMA® 250 Accessories

- Teaching mirror [01] C-000.33.302
- Blue filter [02] C-000.33.313
- Yellow filter [03] C-000.33.314
- Diffusor [04] C-000.33.315
- Case for filters, empty [05] C-000.33.316
- Clip-in correction frame for prescription lenses [06] C-000.32.309
## HEINE SIGMA® 250 Kits

<table>
<thead>
<tr>
<th>SIGMA250 Kits</th>
<th>without power source</th>
<th>with mPack LL</th>
</tr>
</thead>
<tbody>
<tr>
<td>SIGMA250 Kit with S-FRAME</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SIGMA250</td>
<td></td>
<td></td>
</tr>
<tr>
<td>S-FRAME</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Retaining cord</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cleaning fluid</td>
<td></td>
<td></td>
</tr>
<tr>
<td>C-008.33.340</td>
<td>C-008.33.341</td>
<td></td>
</tr>
<tr>
<td>SIGMA250 M2 Kit with S-FRAME and micro spot aperture (instead of small aperture)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SIGMA250 M2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>S-FRAME</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Retaining cord</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cleaning fluid</td>
<td></td>
<td></td>
</tr>
<tr>
<td>C-008.33.345</td>
<td>C-008.33.346</td>
<td></td>
</tr>
</tbody>
</table>

## HEINE SIGMA® 250 Sets

<table>
<thead>
<tr>
<th>SIGMA250 Sets</th>
<th>with mPack LL</th>
</tr>
</thead>
<tbody>
<tr>
<td>SIGMA250 Set with S-FRAME</td>
<td></td>
</tr>
<tr>
<td>SIGMA250</td>
<td></td>
</tr>
<tr>
<td>S-FRAME</td>
<td></td>
</tr>
<tr>
<td>mPack LL with plug-in transformer</td>
<td></td>
</tr>
<tr>
<td>Scleral depressor small</td>
<td></td>
</tr>
<tr>
<td>Scleral depressor large</td>
<td></td>
</tr>
<tr>
<td>A.R. 20 D ophthalmoscopy lens</td>
<td></td>
</tr>
<tr>
<td>Teaching mirror</td>
<td></td>
</tr>
<tr>
<td>Blue and yellow filters</td>
<td></td>
</tr>
<tr>
<td>Diffusor</td>
<td></td>
</tr>
<tr>
<td>Retaining cord</td>
<td></td>
</tr>
<tr>
<td>Cleaning fluid</td>
<td></td>
</tr>
<tr>
<td>Carrying case</td>
<td></td>
</tr>
<tr>
<td>C-281.41.671</td>
<td></td>
</tr>
<tr>
<td>SIGMA250 M2 Set with S-FRAME</td>
<td></td>
</tr>
<tr>
<td>SIGMA250</td>
<td></td>
</tr>
<tr>
<td>S-FRAME</td>
<td></td>
</tr>
<tr>
<td>mPack LL with plug-in transformer</td>
<td></td>
</tr>
<tr>
<td>Scleral depressor small</td>
<td></td>
</tr>
<tr>
<td>Scleral depressor large</td>
<td></td>
</tr>
<tr>
<td>A.R. 20 D ophthalmoscopy lens</td>
<td></td>
</tr>
<tr>
<td>Teaching mirror</td>
<td></td>
</tr>
<tr>
<td>Blue and yellow filters</td>
<td></td>
</tr>
<tr>
<td>Diffusor</td>
<td></td>
</tr>
<tr>
<td>Retaining cord</td>
<td></td>
</tr>
<tr>
<td>Cleaning fluid</td>
<td></td>
</tr>
<tr>
<td>Carrying case</td>
<td></td>
</tr>
<tr>
<td>C-279.41.671</td>
<td></td>
</tr>
</tbody>
</table>

For mPack LL please see page 128.
OPHTHALMIC INSTRUMENTS
INDIRECT OPHTHALMOSCOPES

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.
- Can be used with one hand. Easy to reach all the controls with the thumb.
- + 3 D lens attachment. An aid to accommodation, magnifies the image.
- Add-on binocular attachment available. Instrument can be up-dated for binocular use.

Monocular Hand-held Indirect Ophthalmoscope

<table>
<thead>
<tr>
<th>3.5 V XHL</th>
</tr>
</thead>
<tbody>
<tr>
<td>with + 3D lens attachment and orbit rest extension</td>
</tr>
</tbody>
</table>

XHL Xenon Halogen spare bulb | X-002.88.050 |

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

Hand-held Indirect Ophthalmoscope, BINOCULAR

The addition of the binocular attachment to the Hand-held Indirect Ophthalmoscope makes stereoscopic examination possible. PD selection from 54 to 74 mm.

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

Binocular Hand-held Indirect Ophthalmoscope

<table>
<thead>
<tr>
<th>3.5 V XHL</th>
</tr>
</thead>
<tbody>
<tr>
<td>with + 3 D lens attachment and orbit rest extension</td>
</tr>
</tbody>
</table>

XHL Xenon Halogen spare bulb | X-002.88.050 |

Binocular attachment only [01] | C-000.33.106 |

For information on HEINE battery and rechargeable handles, see pages 120 – 125.
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, 8mm.
- Aspheric optical glass lens. Focal length F = 18mm. 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

<table>
<thead>
<tr>
<th>Lens Diameter</th>
<th>Description</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>A.R. 16D, 54mm dia.</td>
<td>C-000.17.225</td>
<td></td>
</tr>
<tr>
<td>A.R. 20D, 50mm dia.</td>
<td>C-000.17.228</td>
<td></td>
</tr>
<tr>
<td>A.R. 30D, 46mm dia.</td>
<td>C-000.17.231</td>
<td></td>
</tr>
</tbody>
</table>

---

Scleral Depressor

<table>
<thead>
<tr>
<th>Description</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Scleral depressor, large*</td>
<td>C-000.17.300</td>
</tr>
<tr>
<td>Scleral depressor, small*</td>
<td>C-000.17.301</td>
</tr>
</tbody>
</table>

*autoclavable

---

Fundus Charts

<table>
<thead>
<tr>
<th>Description</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pad with 50 pcs.</td>
<td>C-000.33.208</td>
</tr>
</tbody>
</table>

---

Combi Case

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

### Combi case / Hard case

<table>
<thead>
<tr>
<th>Description</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Combi case [01] for indirect ophthalmology sets C-162, C-276, C-278, C-283, C-284</td>
<td>C-079.03.000</td>
</tr>
<tr>
<td>Hard case [02] for indirect ophthalmology sets C-162, C-276, C-278, C-283, C-284</td>
<td>C-079.00.000</td>
</tr>
</tbody>
</table>