Helping the human eye.

HEINE direct ophthalmoscopes
Overview

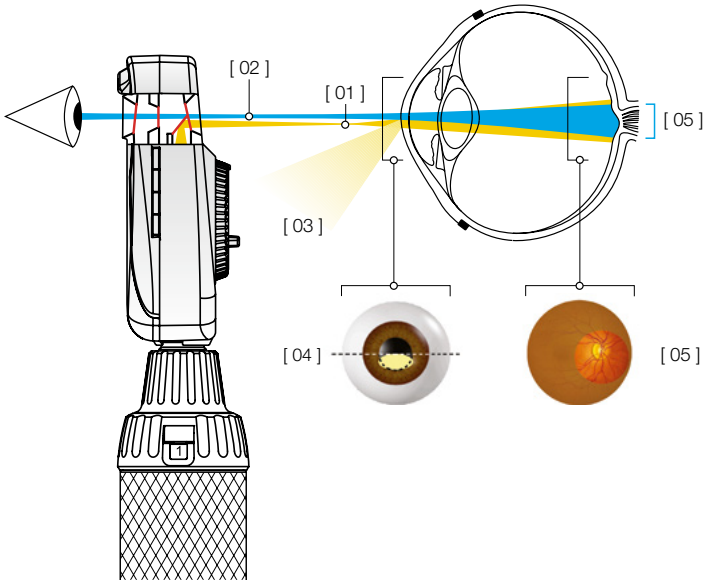
It goes without saying that all of our ophthalmoscopes are premium products. But, still, they differ in one or two details. Read on for a summary of what these different details are and all their benefits:






	BETA 200S	BETA 200	K180 Opt. 1	K180 Opt. 2	mini 3000
Optical system	aspherical		conventional		
Illumination	LED[HQ]				
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
Catalogue page	36	38	40		42

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.

BETA 200S with 7 apertures



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



With red-free filter

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
- EN 200 | EN 200-1 wall transformer
- Replaceable batteries

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 45.
- You can find information on our combined diagnostic sets and kits on pages 66 to 70.
- For information on HEINE battery and rechargeable handles and the EN 200 wall transformer, see pages 140-148.

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
- EN 200 | EN 200-1 wall transformer
- Replaceable batteries

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

	2.5 V LED	3.5 V 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

	2.5 V LED	3.5 V 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

	2.5 V LED	3.5 V 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 45.
- You can find information on our combined diagnostic sets and kits on pages 66 to 70.
- For information on HEINE battery and rechargeable handles and the EN 200 wall transformer, see pages 140-148.

HEINE K180 LED ophthalmoscope
Standard instrument for a smaller budget



Sturdy ophthalmoscope with 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

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 66 to 70.
- For information on HEINE battery and rechargeable handles and the EN 200 wall transformer, see pages 140-148.

HEINE mini 3000® LED ophthalmoscope
Maximum quality with minimum dimensions



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



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

HEINE mini 3000® LED ophthalmoscope
Diagnostic sets|kits



[01]

Set includes: mini 3000 LED ophthalmoscope, hard case

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



[02]

Kit includes: mini 3000 LED ophthalmoscope with

	2.5V LED
mini 3000 battery handle (with batteries) [02]	**D-008.71.120**

- You can find information on our combined diagnostic sets and kits on pages 66 to 70.
- Available in black or blue. Please specify the colour you prefer when ordering. If not otherwise specified, we will supply black instruments.

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 LED ophthalmoscope head	2.5 V LED
without handle and accessories*	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

▶ For information on HEINE battery and rechargeable handles and the EN 200 wall transformer, see pages 140-148.

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
- EN 200 | EN 200-1 wall transformer
- Replaceable batteries

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



[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 140-148.

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 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 140-148.

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]



[02]



[03]



[04]



[05]



[06]

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

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

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

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 10x magnification, without instrument [05]	C-000.14.606

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

▶ For information on HEINE battery and rechargeable handles and the EN 200 wall transformer, see pages 140-148.

Further articles | accessories
HEINE ophthalmic instruments



[01]

Ophthalmic examination lamp head	2.5 V XHL	3.5 V XHL
without handle [01]	C-001.14.400	C-002.14.400



[02]

XHL xenon halogen spare bulb	2.5 V XHL	3.5 V XHL
for ophthalmic examination lamp [02]	X-001.88.032	X-002.88.047



[03]

Finoff transilluminator head	3.5 V LED
Finoff for scleral transillumination, without handle [03]	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 140-148.

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	53	55	57	

HEINE OMEGA® 600 binocular indirect ophthalmoscope
Discover more. With less weight



visionBOOST

Red-free, yellow and cobalt blue filter

Diffuser HEINE, small spot, medium and large

HEINE OMEGA 600 operation film

THE LIGHTEST HIGH-END INDIRECT OPHTHALMOSCOPE WORLDWIDE

- Best wearing comfort
- Personalized fit
  - ⊳ Ergonomic positioning of controls and levers
  - ⊳ Adaptable for right and left handed users
  - ⊳ Flip-up optics unit

MOST PRECISE DIAGNOSTIC, UP TO THE FAR RETINAL PERIPHERY

- Significantly better diagnostics due to unique visionBOOST – even in dense cataracts
- Sharpest fundus image due to superior glass optics
- Brightest fundus image with true colour rendering thanks to our unique LED^{HQ} – in even more natural colours
- Best 3D imaging due to our unique stereoscopic adjustment technology
  - ⊳ in dilated and undilated pupils
  - ⊳ even with prematures and newborns

LONG-LASTING INVESTMENT DUE TO ITS ROBUST DESIGN

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

EASY AND EFFECTIVE DISINFECTION THANKS TO SMOOTHSURFACE

- No openings
- Integrated electronics



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



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



Width adjustment

HEINE OMEGA® 600

Sets | kits



[01]



[02]



[03]



[04]



[05]



[06]

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

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



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

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



[01]

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

	6 V 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 152-153.

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

	6V 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

	6V 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



SIGMA 250 apertures



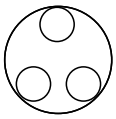
Large spot, small spot, red-free filter

SIGMA 250 M2 apertures



Large spot, pinhole, red-free filter

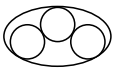
Simplified diagram of various beam configurations
Large pupil – Small pupil – Peripheral view



Large pupil



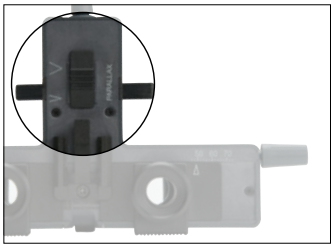
Small pupil



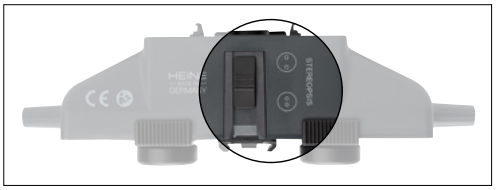
Peripheral view

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



Parallax adjustment



Convergence adjustment

▶ For further information on the mPack mini, please see page 156.

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 (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 (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 140-148.

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] (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 150-151.

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



[01]



[02]



[03]



[04]



[05]



[06]

Accessories OMEGA 500 ophthalmoscope

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 150-156.

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 140-148.