

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 ^{HO}			
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



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} – now in even more natural colours
- ▶ Best 3D imaging due to our unique stereoscopic adjustment technology
 - ▷ in dilated and undilated pupils
 - ▷ even with prematures and newborns

LONG-LASTING INVESTMENT DUE TO ITS ROBUST DESIGN

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

EASY AND EFFECTIVE DISINFECTION THANKS TO SMOOTHSURFACE

- ▶ No openings
- ▶ Integrated electronics



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



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



Width adjustment

HEINE OMEGA® 600

Sets | kits

	OMEGA 600 sets	LED
 [01]	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
 [02]	OMEGA 600 traveller set: indirect ophthalmoscope (with battery and +2 D eyepiece), E4-USBC, eyepiece 0 D*, traveller bag [04]	C-008.33.613
 [03]	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
 [04]	OMEGA 600 kit: indirect ophthalmoscope (with battery and +2 D eyepiece), E4-USBC, eyepiece 0 D*	C-008.33.610
 [05] [06]	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

	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 164-165](#).

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

HIGH-RESOLUTION DIGITAL IMAGING OF THE FUNDUS



HEINE OMEGA 500
with DV1 film

- ▶ **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



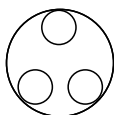
Large spot, small spot,
red-free filter

SIGMA 250 M2 apertures



Large spot, pinhole,
red-free filter

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



Large pupil



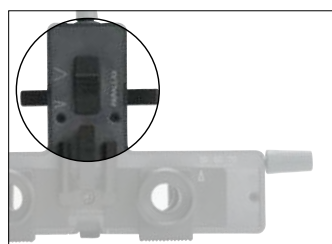
Small pupil



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 44x23x101 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 $\pm 3^\circ$.** 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 168](#).

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

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]



[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 accommodation, 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 150-160](#).

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. 30D Ø 46mm	C-000.17.231
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[01]

Combi case | hard case



[02]

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



[03]

Combi case|hard case*

OMEGA 600 traveller bag [01] (Can be worn over the shoulder or as a backpack.)	C-080.00.000
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combi case [02] for OMEGA 500	C-079.03.000
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hard case [03] for OMEGA 500	C-079.00.000
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[04]

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

HEINE indirect ophthalmoscopes



OMEGA 600 ophthalmoscope

CC1 charging case [02]	X-000.99.091
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CB1 charging battery [01]	X-007.99.687
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E4-USBC power supply with cable [03]	X-000.99.300
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CW1 wall charger (without OMEGA 600) [04]	X-095.17.320
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TM2 teaching mirror [05]	C-000.33.212
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OMEGA 600 traveller bag [06]	C-080.00.000
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► For information on HEINE power sources see [pages 162-163](#).

Further articles | accessories

HEINE indirect ophthalmoscopes



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



[01]

Accessories OMEGA 500 ophthalmoscope	
upgrade-kit OMEGA 500 with LED module [01] and HC 50L [02]	X-008.16.325



[02]

LED module for OMEGA 500 [01]	X-008.87.200
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HC 50L headband rheostat (without plug-in transformer)	X-095.16.325
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plug-in transformer for HC 50L headband rheostat	X-095.16.330
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teaching mirror [03]	C-000.33.209
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[03]

extension cord cinch-cinch, 2m [04]	C-000.33.510
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connecting cord cinch to EN 50 charger mPack plug-in transformer for HC 50L, 1.6m [05]	X-000.99.667
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[04]

extension cord from plug-in transformer UNPLUGGED to mPack UNPLUGGED, 2m [06]	X-000.99.668
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USB 2.0 cord for OMEGA 500 with DV1	X-000.99.206
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[05]



[06]

► For information on HEINE power sources see [pages 162-168](#).

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

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 150-160](#).