

# Ophthalmic Instruments

## HIGHEST OPTICAL QUALITY AND THE MOST ACCURATE DIAGNOSIS

HEINE ophthalmic instruments set the industry standard for optical quality and diagnostic accuracy. The HEINE range includes a wide variety of high-quality ophthalmic instruments for all aspects of general and specialised examination of the eye: Direct and Indirect ophthalmoscopes, specialty ophthalmic instruments including retinoscopes, retinometers, hand-held slit lamps and ophthalmic examination lamps.

The HEINE Ophthalmoscopes benefit from numerous patents and registered trade marks. The main features: The aspherical optical system (AOS) in HEINE BETA Direct Ophthalmoscopes, the ParaStop feature in the HEINE Retinoscope and the simultaneous adjustment of convergence and parallax in HEINE OMEGA Indirect Ophthalmoscopes.



## HEINE Direct Ophthalmoscopes

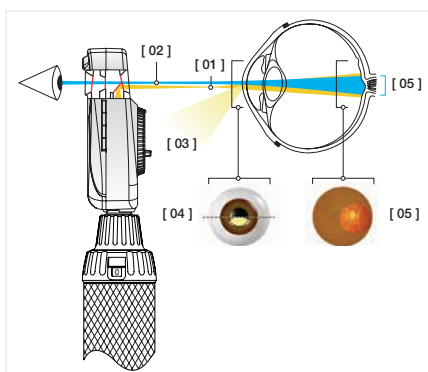


mini 3000

LED

[illegible]

\* Red free filter for all apertures



**“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 Ophthalmoscope

### Superior aspherical optics and 74 single-diopter steps



✧ Eliminates corneal reflex

✧ Ideal for small pupils

✧ 74 single diopter steps

✧ Dustproof

- ✧ **Unique optical system.** HEINE optimizes the Gullstrand principle with aspherical optics (separation of illumination and observation beam). **Corneal and iris reflexes are eliminated.** A full view is guaranteed even with small pupils.
- ✧ **XHL Xenon Halogen Technology.** Bright, white light.
- ✧ **Range of lenses: 74 lenses from -36 D to +38 D.** Perfect focus even with high refractive errors.
  - + in 1 D steps: +1 through +38 D
  - in 1 D steps: -1 through -36 D
- ✧ **7 apertures with separate red-free filter.** Suitable for large or small pupils. Incorporates slit aperture, fixation star, cobalt blue filter and red-free filter for improved contrast.
- ✧ **Recessed, multi-coated viewing window.** Avoids stray light.
- ✧ **Dustproof housing.** Maintenance-free.
- ✧ **Optics mounted on precision metal chassis.** Durable, precise.
- ✧ **Ergonomic shape.** Instrument fits the orbita comfortably in any position.
- ✧ **Soft orbital support.** Protects the users' glasses and steadies the instrument.

BETA 200 S Ophthalmoscope	2.5V	3.5V
without handle	C-001.30.120	C-002.30.120
XHL Xenon Halogen spare bulb	X-001.88.069	X-002.88.070

#### BETA 200 S apertures:



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



#### With red-free filter:

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

## HEINE BETA® 200 Ophthalmoscope

## The ophthalmoscope with superior aspherical optics



✧ Eliminates corneal reflex

✧ Ideal for small pupils

✧ Dustproof

The ophthalmoscope with unique aspherical optics and all the features of the BETA200S, except for the macula aperture/pinhole and the following **range of lenses: 27 lenses from -35 D to +40 D.**

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

BETA200 Ophthalmoscope	2.5V	3.5V
without handle	C-001.30.100	C-002.30.100
BETA200 M2 Ophthalmoscope, without handle. Like BETA200, except with fixation star aperture without polar coordinates and with pinhole instead of small spot.	C-001.30.102	C-002.30.102

XHL Xenon Halogen spare bulb	X-001.88.069	X-002.88.070
------------------------------	--------------	--------------

## BETA200 apertures



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



With red-free filter

## BETA200 M2 apertures



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





With red-free filter

For information on combined diagnostic sets, please see pages 173 – 175.

## HEINE BETA® 200S/200 Ophthalmic Diagnostic Sets

Set complete with: **BETA200S Ophthalmoscope**  
1 spare bulb  
hard case



BETA200S Ophthalmoscope Sets	2.5V	3.5V (NiMH)	3.5V 
BETA battery handle	C-261.10.118		
BETA R rechargeable handle for mains socket		C-261.20.376	C-261.27.376
BETA TR rechargeable handle with plug-in transformer		C-261.20.384	C-261.27.384
BETA NT rechargeable handle and NT300 charger		C-261.20.420	
 BETA L rechargeable handle and NT300 charger			C-261.29.420

: Rechargeable handle with charge status display in the bottom insert.



## HEINE BETA® 200/200S Ophthalmic Diagnostic Sets

Set complete with: **BETA200 Ophthalmoscope**

1 spare bulb

hard case



BETA200 Ophthalmoscope Sets	2.5V	3.5V (NiMH)	3.5V 
BETA battery handle	<b>C-144.10.118*</b>		
BETA R rechargeable handle for mains socket		<b>C-144.20.376</b>	<b>C-144.27.376</b>
BETA TR rechargeable handle with plug-in transformer		<b>C-144.20.384</b>	<b>C-144.27.384</b>
BETA NT rechargeable handle and NT300 charger		<b>C-144.20.420</b>	
 BETA L rechargeable handle and NT300 charger			<b>C-144.29.420</b>



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

Set complete with: **BETA200S Ophthalmoscope, BETA200 Streak Retinoscope**

1 spare bulb for each instrument

hard case





BETA200S Ophthalmoscope Sets	2.5V	3.5V (NiMH)	3.5V 
BETA battery handle	<b>C-262.10.118</b>		
BETA R rechargeable handle for mains socket		<b>C-262.20.376</b>	<b>C-262.27.376</b>
BETA TR rechargeable handle with plug-in transformer		<b>C-262.20.384</b>	<b>C-262.27.384</b>
BETA NT rechargeable handle and NT300 charger		<b>C-262.20.420</b>	
 BETA L rechargeable handle and NT300 charger			<b>C-262.29.420</b>

Set complete with: **BETA200 Ophthalmoscope, BETA200 Streak Retinoscope**

1 spare bulb for each instrument

hard case



BETA200 Ophthalmoscope Sets	2.5V	3.5V (NiMH)	3.5V 
BETA battery handle	<b>C-145.10.118*</b>		
BETA R rechargeable handle for mains socket		<b>C-145.20.376</b>	<b>C-145.27.376</b>
BETA TR rechargeable handle with plug-in transformer		<b>C-145.20.384</b>	<b>C-145.27.384</b>
BETA NT rechargeable handle and NT300 charger		<b>C-145.20.420</b>	
 BETA L rechargeable handle and NT300 charger			<b>C-145.29.420</b>

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

: Rechargeable handle with charge status display in the bottom insert.

## HEINE Diagnostic Sets

Set complete: **BETA200 Ophthalmoscope, BETA200 F.O. Otoscope**



1 set of reusable tips (B-000.11.111)

5 of both AllSpec disposable tips 2.5 and 4 mm dia. (B-000.11.119)

one spare bulb each



hard case



Diagnostic Sets	2.5V	3.5V (NiMH)	3.5V 
BETA battery handle	<b>A-132.10.118</b>		
BETA R rechargeable handle for mains socket		<b>A-132.20.376</b>	<b>A-132.27.376</b>
BETA TR rechargeable handle with plug-in transformer		<b>A-132.20.384</b>	<b>A-132.27.384</b>
BETA NT rechargeable handle and NT300 charger		<b>A-132.20.420</b>	
 BETA L rechargeable handle and NT300 charger			<b>A-132.29.420</b>

As set above, but with additional multi-purpose illuminator.



Diagnostic Sets	2.5V	3.5V (NiMH)	3.5V 
BETA battery handle	<b>A-134.10.118</b>		
BETA R rechargeable handle for mains socket		<b>A-134.20.376</b>	<b>A-134.27.376</b>
BETA TR rechargeable handle with plug-in transformer		<b>A-134.20.384</b>	<b>A-134.27.384</b>
BETA NT rechargeable handle and NT300 charger		<b>A-134.20.420</b>	
 BETA L rechargeable handle and NT300 charger			<b>A-134.29.420</b>

Set complete: **BETA200 Ophthalmoscope, BETA100 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

hard case



Diagnostic Sets	2.5V	3.5V (NiMH)	3.5V 
BETA battery handle	<b>A-234.10.118</b>		
BETA R rechargeable handle for mains socket		<b>A-234.20.376</b>	<b>A-234.27.376</b>
BETA TR rechargeable handle with plug-in transformer		<b>A-234.20.384</b>	<b>A-234.27.384</b>
BETA NT rechargeable handle and NT300 charger		<b>A-234.20.420</b>	
 BETA L rechargeable handle and NT300 charger			<b>A-234.29.420</b>

: Rechargeable handle with charge status display in the bottom insert.



## HEINE K180® Ophthalmoscope

### Standard direct ophthalmoscope

A full-featured instrument at an economical price.

- ✦ **Precision spherical HEINE optics.** Corneal and iris reflexes are eliminated.
- ✦ **XHL Xenon Halogen Technology.** Bright, white light. Clear retinal image.
- ✦ **Range of lenses: 27 lenses from -35 D to +40 D.** Brilliant image even at high corrections.

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

- ✦ **Ergonomical shape.** The instrument fits the orbita comfortably.
- ✦ **Soft orbital rest.** Steadies the instrument and protects your glasses.
- ✦ **Choice of 5 apertures.** For both large and small pupils. Choice of fixation star or cobalt blue filter for corneal examination.
- ✦ **Dust-resistant housing.** Maintenance-free.
- ✦ **High-impact polycarbonate housing for durability.**



✦ Reduces corneal reflex

✦ Dust-resistant

K180 Ophthalmoscope	2.5V	3.5V
with aperture wheel 1, without handle	C-001.30.206	C-002.30.206
with aperture wheel 2, with cobalt blue filter, without handle	C-001.30.207	C-002.30.207
XHL Xenon Halogen spare bulb	X-001.88.084	X-002.88.086

#### 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

## HEINE K180® Ophthalmic Diagnostic Sets

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



K180 Ophthalmoscope Sets	2.5V	3.5V (NiMH)	3.5V
BETA battery handle	C-182.10.118		
BETA R rechargeable handle for mains socket		C-182.20.376	C-182.27.376
BETA TR rechargeable handle with plug-in transformer		C-182.20.384	C-182.27.384
BETA NT rechargeable handle and NT300 charger		C-182.20.420	
BETA L rechargeable handle and NT300 charger			C-182.29.420



: Rechargeable handle with charge status display in the bottom insert.



HEINE K180® Diagnostic Sets

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



K180 Diagnostic Sets	2.5 V	3.5 V (NiMH)	3.5 V 
BETA battery handle	<b>A-279.10.118</b>		
BETA R rechargeable handle for mains socket		<b>A-279.20.376</b>	<b>A-279.27.376</b>
BETA TR rechargeable handle with plug-in transformer		<b>A-279.20.384</b>	<b>A-279.27.384</b>
BETA NT rechargeable handle and NT300 charger		<b>A-279.20.420</b>	
 BETA L rechargeable handle and NT300 charger			<b>A-279.29.420</b>

: Rechargeable handle with charge status display in the bottom insert.



## HEINE mini3000® Ophthalmoscope

### Compact Pocket Ophthalmoscope



⚡ Modern pocket instrument

⚡ 5 different apertures

⚡ Dust-resistant

Modern pocket ophthalmoscope – with fixation star aperture. Excellent optics and best colour rendering in minimum dimensions, ideal for rounds and house calls. Can be used with the mini3000 handle system. Available in black and blue.

- ⚡ **XHL Xenon Halogen Technology.** Concentrated bright light for perfect illumination, a brilliant image and accurate colour rendering.
- ⚡ **The HEINE optics produce crisp, clear images of the whole area under examination** and minimize the 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.**

+	1	2	3	4	6	8	10	15	20D
-	1	2	3	4	6	8	10	15	20D
- ⚡ **Easy workflow**, because ophthalmoscopy is possible without dilation of the pupils.
- ⚡ **Attachment clip with integrated on/off switch.** Switches off automatically when returned to the pocket.
- ⚡ **Replaceable batteries.** Size AA, or optional rechargeable battery with mini NT table charger.\*
- ⚡ **2-piece handle and head.** Easy to maintain, flexible. Compatible with other handles.
- ⚡ **Award-winning design.** Maximum quality with minimum dimensions.

mini3000 Ophthalmoscope	2.5V
with mini3000 Battery Handle, with batteries	D-001.71.120
without handle	D-001.71.105
XHL Xenon Halogen spare bulb	X-001.88.106

#### mini3000 apertures



Large spot, small spot, fixation star, hemispot, red-free filter

## HEINE mini3000® Diagnostic Sets

All handles are fitted with batteries (IEC LR 6 AA size, or optional rechargeable battery with miniNT table charger\*). Please order spare bulbs separately.



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

<b>mini3000 Ophthalmoscope Set</b>	<b>2.5V</b>
mini3000 battery handle with batteries	<b>D-852.10.021</b>



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 (B-000.11.119)  
hard case

<b>mini3000 Ophthalmoscope, mini3000 F.O. Otoscope Set</b>	<b>2.5V</b>
with <b>2</b> mini3000 battery handles with batteries	<b>D-873.11.021</b>
as above but with <b>mini3000 Otoscope</b> instead of mini3000 F.O. Otoscope	<b>D-873.21.021</b>



\*To upgrade to a rechargeable instrument with miniNT table charger, please see page 158.

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 mini3000® LED Ophthalmoscope

### with LED Illumination in HEINE Quality HQ



NEW

LED HQ



: Maintenance-free pocket instrument

: Optimal colour rendering

: Up to 10 hours operation time

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

All of the features of the mini3000 Ophthalmoscope, with the addition of:

- : **Maintenance-free**, no need to ever replace the LED.
- : LED Thermal management for a **consistent light output throughout the whole working life**.
- : High-performance-LED: bright and absolutely homogeneous **illumination with an excellent colour rendering** – colour temperature 4000K, colour rendering index >95, and >90 rendering index of the colour red.
- : **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.

mini3000 LED Ophthalmoscope	2.5V
with mini3000 Battery Handle, with batteries	D-008.71.120
without handle	D-008.71.105

#### mini3000 apertures



Large spot, small spot, fixation star, hemispace, red-free filter

## HEINE mini3000® LED Diagnostic Sets



All handles are fitted with batteries (IEC LR 6 AA size, or optional rechargeable battery with miniNT charger\*).



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

<b>mini3000 LED Ophthalmoscope Set</b>	<b>2.5V</b>
mini3000 battery handle with batteries	<b>D-885.21.021</b>



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 (B-000.11.119)  
hard case

<b>mini3000 LED Ophthalmoscope, mini3000 F.O. Otoscope Set</b>	<b>2.5V</b>
with 2 mini3000 battery handles with batteries	<b>D-886.11.021</b>



\*To upgrade to a rechargeable instrument with miniNT table charger, please see page 158.

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.