Various magnifications (from 2.3x to 6x), working distances, wearing modes (unique S-FRAME, Lightweight Headband and Headband Professional L) and LED LoupeLight illumination systems are available. They provide homogeneous, reflex-free illumination even in deep cavities. State-of-the-art LED HQ technology and design!

HEINE Binocular Loupes are used in many disciplines: e.g. General Medicine, Dermatology, Surgery, Cosmetic Surgery, Neurosurgery, ENT, Ophthalmology, Veterinary Medicine, Dentistry etc.

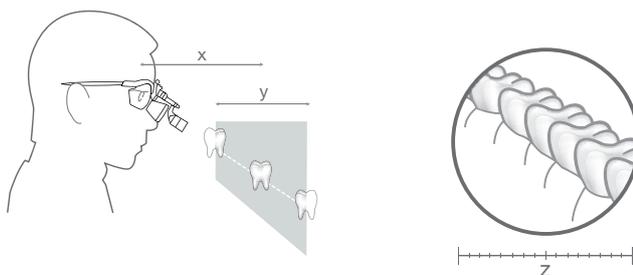## Definitions:

:· **Working distance (x)**
The distance, at which the optics of a loupe are sharply-focused.
:· **Depth of field (y)**
The range over which the image remains sharply-focused.
:· **Field of view (z)**
The area that can be seen under magnification at the nominal working distance.

How to choose the correct Loupe:

:· Choose your magnification
Choose the lowest magnification that meets your needs. The lower the magnification, the larger the field of view and the easier the loupe will be to use.

:· Choose your optics
HR: High-Resolution achromatic optics with excellent optical qualities.

HRP: High Resolution Prismatic optics with excellent optical qualities for
3.5x magnification and higher.

C: Economy.

:· Choose your working distance
This is an individual choice depending on the examiner's size and working position.
The longer the working distance, the bigger the field of view.

:· Choose your mounting option
Spectacle frame or Headband.

:· Add illumination
Coaxial bright light is especially-important when using magnification.

HEINE Binocular Loupes

	HR	HRP	C
			C 2.3K C 2.3
Magnification			
2.3x			□
2.5x	□		
3.5x		□	
4x		□	
6x		□	
Working distance			
250mm (with close-up lenses)	□	––	––
340mm	□	□	□
420mm	□	□	––
450mm	––	––	□
520mm	□	––	––
Mounting options			
S-FRAME	□	□	––
Lightweight Headband	––	––	□
Professional Headband	□	□	––
Simple Metal Frame	––	––	□
Accessories			
Close-up Lenses*	□ (for 340mm)	––	––
Protective Lenses	□	□	□
LED LoupeLight (Pages 113/114) NEW	□	□	––
Features			
i-View Function**	□	□	––
Modular	□	□	––
Water-resistant	□	□	––
Achromatic Optics	□	□	––
Optional Prescription Correction	□	□	––
Page	106 – 107	108 – 109	110

* To reduce the working distance to 250mm.

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

Loupes & Headlights

HEINE® HR 2.5x High Resolution Binocular Loupes

with i-View loupe mount

HR 2.5x Optics with i-View

:· **Achromatic optics** for crisp, bright images with colour-correction.
:· **Lightweight** (51 g).
:· **Water-resistant.**
:· **Independent adjustment** of left and right optics for perfect PD adjustment.
:· **High magnification** with a large field of view and excellent depth of field.
:· **i-View loupe mount** provides any angle of view and flips up the optics independently of the optional LED LoupeLight.

:· **Multi-coated Achromatic Optics**

:· **Exceptional Focal Range**

:· **Crisp, High-Resolution Image**

:· **Unique i-View Loupe Mount**

HR 2.5x Specifications			
Working distance in mm	340	420	520
Field of view in mm	90	130	180
Depth of field in mm	110	180	260

Optional clip-in correction frame

Mounting Options:

:· HEINE S-FRAME®

:· **Maximum comfort** with a modern, ergonomic design.
:· **Malleable temples and nose pad** can be customized to fit any face perfectly.
:· **Innovative materials** – Carbon-Kinetium reduces weight (24 g).
:· **Tough polycarbonate protective lenses.**
:· **Optional clip-in correction frame** for prescription lenses.

Professional L Headband with S-GUARD

:· HEINE® Professional L Headband **with** S-GUARD®

:· **S-GUARD splash protection.**
:· **Ergonomic nose pad** for comfort during long procedures.
:· **Fully-adjustable for height and width to fit any head.**
:· **Hygienic and comfortable leather cushions.**
:· **Optional clip-in correction frame** for prescription lenses.

Professional L Headband without S-GUARD

:· HEINE® Professional L Headband **without** S-GUARD®

:· **Ideal for spectacle-wearers** in combination with their own spectacles.
:· **Ergonomic nose pad** for comfort during long procedures.
:· **Fully-adjustable for height and width to fit any head.**
:· **Hygienic and comfortable leather cushions.**

HEINE® HR 2.5x High Resolution Binocular Loupes

with i-View loupe mount

HR 2.5x Sets with i-View loupe mount			
Working distance in mm	340	420	520
Set A: HR 2.5x optics with i-View on S-FRAME Protective lenses 2 sterilisable swivel levers Retaining cord Cleaning fluid Cleaning cloth Carrying case	**C-000.32.355**	**C-000.32.356**	**C-000.32.567**
Set B: HR 2.5x optics with i-View on Professional L Headband S-GUARD splash protection Protective lenses 2 sterilisable swivel levers Cleaning fluid Cleaning cloth	**C-000.32.365**	**C-000.32.366**	**C-000.32.367**
Set C (without S-GUARD): HR 2.5x optics with i-View on Professional L Headband Protective lenses 2 sterilisable swivel levers	**C-000.32.865**	**C-000.32.866**	**C-000.32.867**

Set A

Set B
with S-GUARD

Set C
without
S-GUARD

For details of accessories and LED LoupeLight see pages 112 – 114.

Loupes & Headlights

HEINE® HRP High Resolution Prismatic Binocular Loupes

with i-View loupe mount

HRP Optics with i-View

- **Achromatic optics** for crisp, bright images from edge-to-edge.
- **Lightweight** (85 g).
- **Water-resistant.**
- **Independent adjustment** of left and right optics for perfect PD adjustment.
- **Highest magnification:** Choice of 3.5 x, 4 x and 6 x.
- **i-View loupe mount** provides any angle of view and flips up the optics independently of the optional LED LoupeLight.

:· **Multi-coated Achromatic Optics**

:· **Prismatic for highest magnification**

:· **Crisp, High-Resolution Image**

:· **Unique i-View Loupe Mount**

HRP Specifications			
Working distance in mm	HRP 3.5 x / 420	HRP 4 x / 340	HRP 6 x / 340
Field of view in mm	65	50	40
Depth of field in mm	60	40	30

Mounting Options:

:· HEINE S-FRAME®

- **Maximum comfort** with a modern, ergonomic design.
- **Malleable temples and nose pad** can be customized to fit any face perfectly.
- **Innovative materials** – Carbon-Kinetium reduces weight (24 g).
- **Tough polycarbonate protective lenses.**
- **Optional clip-in correction frame** for prescription lenses.

Optional
clip-in correction
frame

:· HEINE® Professional L Headband **with** S-GUARD®

- **S-GUARD splash protection.**
- **Ergonomic nose pad** for comfort during long procedures.
- **Fully-adjustable for height and width to fit any head.**
- **Hygienic and comfortable leather cushions.**
- **Optional clip-in correction frame** for prescription lenses.

Professional L
Headband with
S-GUARD

HEINE® Professional L Headband **without** S-GUARD®

- **Ideal for spectacle-wearers in combination with their own spectacles.**
- **Ergonomic nose pad** for comfort during long procedures.
- **Fully-adjustable for height and width to fit any head.**
- **Hygienic and comfortable leather cushions.**

Professional L
Headband
without S-GUARD

HEINE® HRP High Resolution Prismatic Binocular Loupes

with i-View loupe mount

Set A

Set B
with S-GUARD

Set C
without
S-GUARD

HRP Sets with i-View			
Working distance in mm	HRP 3.5 x / 420	HRP 4 x / 340	HRP 6 x / 340
Set A: HRP optics with i-View on S-FRAME Protective lenses 2 sterilisable swivel levers Retaining cord Cleaning fluid Cleaning cloth Carrying case	C-000.32.430	C-000.32.431	C-000.32.432
Set B: HRP optics with i-View on Professional L Headband S-GUARD splash protection Protective lenses 2 sterilisable swivel levers Cleaning fluid Cleaning cloth	C-000.32.440	C-000.32.441	C-000.32.442
Set C (without S-GUARD): HRP optics with i-View on Professional L Headband Protective lenses 2 sterilisable swivel levers	C-000.32.840	C-000.32.841	C-000.32.842

Loupes & Headlights

HEINE® C 2.3 Binocular Loupes

The cost-effective all-purpose loupe

Ideal for dental laboratories and general medical examination.

C 2.3

:· **Crisp, clear images.** Multi-coated, scratch-resistant silica glass lenses produce crisp, clear images.
:· **Flexibility for precise adjustment.** Independently adjustable PD controls ensure precise alignment of the optics.
:· **Super lightweight and comfortable – only 46 g.** Flexible coil temples wrap-around to fit the user's anatomy securely and comfortably. Spring-loaded temples will adjust to the user's anatomy. Lightweight metal frame.
:· **The ideal all-purpose loupe.** The feather-light weight, low-profile design and low cost of the C 2.3 loupe make it the ideal all-purpose loupe.
:· **Working distance.** 340 mm or 450 mm (13 or 18 inches).
:· Also available as C 2.3 K on Lightweight Headband.

C 2.3 K

Specifications	C 2.3x / **340 mm**	C 2.3x / **450 mm**
Magnification	2.3x	2.3x
Working distance	340 mm	450 mm
Field of view dia.	110 mm	130 mm
Weight	46 g	46 g
Depth of Field	120 mm	190 mm

User's refractive error	Effective working distance C 2.3x / **340 mm**	Effective working distance C 2.3x / **450 mm**
+2	440 mm	670 mm
+1	390 mm	560 mm
0	340 mm	450 mm
–1	300 mm	420 mm
–2	270 mm	370 mm

Important information for those who wear glasses:
The C 2.3 K Series loupe can also be worn without the use of spectacles. Should you prefer to examine without glasses, the charts illustrate how your refractive error will affect the loupe working distance. If you are unsure of your prescription, please consult your eye care provider.

C 2.3 / C 2.3 K Binocular Loupes	
C 2.3 / 340 Loupe in case	**C-000.32.039**
C 2.3 / 450 Loupe in case	**C-000.32.202**
C 2.3 K / 340 Headband Loupe in case	**C-000.32.230**
C 2.3 K / 450 Headband Loupe in case	**C-000.32.231**

Accessories

C 2.3 / C 2.3 K Binocular Loupe Accessories	
Protective case for the C 2.3 Loupes and accessories	**C-000.32.038**
Detachable protective lenses for C 2.3 and C 2.3 K. To protect the optics. Can be sterilized by conventional methods.	**C-000.32.097**

HEINE Binocular Loupes

Ordering Information

Optics with i-View loupe mount for S-FRAME in carrying case

Working distance in mm	340 mm	420 mm	520 mm
HR 2.5 x	C-000.32.595	C-000.32.596	C-000.32.597
HRP 3.5 x		C-000.32.720	
HRP 4 x	C-000.32.721		
HRP 6 x	C-000.32.722		

Optics with i-View and S-GUARD for Professional L Headband

Working distance in mm	340 mm	420 mm	520 mm
HR 2.5 x	C-000.32.585	C-000.32.586	C-000.32.587
HRP 3.5 x		C-000.32.710	
HRP 4 x	C-000.32.711		
HRP 6 x	C-000.32.712		

Optics with i-View for Professional L Headband (without S-GUARD)

Working distance in mm	340 mm	420 mm	520 mm
HR 2.5 x	C-000.32.733	C-000.32.734	C-000.32.735
HRP 3.5 x		C-000.32.736	
HRP 4 x	C-000.32.737		
HRP 6 x	C-000.32.738		

Loupes & Headlights

HEINE Binocular Loupes Accessories

Ordering Information

Mounting options	
S-FRAME*	
For **HR and HRP** Binocular Loupes incl. retaining cord and cleaning fluid	**C-000.32.302**
* with protective lenses, large (lg).	

Professional L Headband	
For **HR** and **HRP** optics	**C-000.32.549**

Accessories for optics	
HR Close-up Lenses in case HR 2.5x / 340 mm to 250 mm. The close-up lenses reduce the working distance of the binocular loupes.	
Close-up Lenses for **HR 2.5x** / 340 mm optics	**C-000.32.523**

Protective Lenses	
To protect the optics of the **HR and the HRP** loupes	
Protective Lenses for **HR** loupes (5 pairs) [01]	**C-000.32.537**
Protective Lenses for **HRP** loupes [02]	**C-000.32.027**

Sterilisable Swivel Levers	
For **HR and HRP** loupes with i-View	**C-000.32.551**

Carrying Case	
For Binocular Loupe optics or for all sets with S-FRAME	**C-000.32.552**

Accessories for S-FRAME	
S-FRAME retaining cord	C-000.32.305

S-FRAME replacement part set	
with side rubbers, nose pad (1 piece) and screw	**C-000.32.308**

Clip-in correction frame	
for prescription lenses	**C-000.32.309**

Protective lenses, large (lg), 1 pair (Standard)	**C-000.32.306**

Protective lenses, small (sm), 1 pair	**C-000.32.307**

Cleaning fluid for lenses, pack of 2	**C-000.32.542**

[01] [02]

HEINE® LED LoupeLight

Compact LED LoupeLight – now in LED HQ
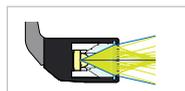
NEW!

LED HQ
LED NOW IN HEINE QUALITY.

:: **LED in HQ –** the new standard in LED illumination defining optimal light intensity, homogeneity and colour rendering for each individual examination situation.
:: **Compact, lightweight (24 g).** Ensures perfect comfort.
:: **Aluminium Housing.** Exclusive aluminum housing protects the optics against dust and moisture to ensure an extraordinary long lifespan.
:: **Coaxial Illumination:** Compact coaxial design ensures a completely shadow-free image and allows for excellent illumination of difficult to see areas.
:: **Individual adjustment of the angle of view.** The right angle for every situation.
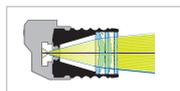:: **Optional Filter.** Polarisation filter P 2 improves contrast and yellow filter reduces blue light.

Technical Specification	
Illumination	Up to **40,000 Lux** at a working distance of 250 mm
Colour Temperature	**4,500 Kelvin**
LED Operating Life	Up to **50,000 hours**
Spot Size	The illuminated field is designed to complement the HR/ HRP loupes. **81 mm dia. at 420 mm, 95 mm dia. at 520 mm working distance**
Angle of Declination	Stepless and individually adjustable for every examination
Operating Time	**17 hours** continuous ON time at full power with mPack LL

:· Compact and Lightweight

:· Coaxial Illumination

:· Up to 40.000 Lux / 250 mm distance

:: **Precision multiple lens optical system** consisting of four high-quality lenses. Completely homogeneous illumination of the whole field of view and a clearly defined light spot.

[01]   [02]

Conventional System [01]

HEINE Precision Lens System [02]

HEINE® mPack LL

Power Source

:: **Portable power pack.** Does not tie the user to desk, wall or static power supplies.
:: **Li-ion Technology.** Triple capacity compared with current NiCd systems. No memory effect, autonomy for 17 hours of continuous ON time at full power.
:: **Fast Charge.** Charges to full capacity in 2 hours.
:: **Charge Status Display.** Always lets you know how much charge you have left.
:: **Stepless light intensity control.** Optimum brightness setting prevents reflexes.
:: **Flexible Charging Options:** EN 50 desk and wall charger or plug-in transformer.
:: **Intelligent.** Can be used as mains power supply even while in "charge" mode.
:: **100 – 240 V Compatible Transformer** incl. 4 plugs for world wide compatibility.

Loupes & Headlights

HEINE® LED LoupeLight and Accessories

Ordering Information

LED LoupeLight	
LED LoupeLight for HR/HRP Loupes with i-View loupe mount [01]	**C-008.32.246**

Detachable Yellow Filter [02]	**C-000.32.241**
NEW: Polarisation filter P2 for LED LoupeLight and HR Loupes [03] + [04]	**C-000.32.535**
NEW: Spare polarisation filter P2 for HR Loupes (2 pairs) [04]	**C-000.32.536**

LED LoupeLight with Power Source	
for i-View loupe mount (HR / HRP)	
LED LoupeLight with mPack LL and EN50 [05]	**C-008.32.261**
LED LoupeLight with mPack LL and plug-in transformer [06]	**C-008.32.264**

HEINE® LED LoupeLight Sets

with plug-in transformer

LED LoupeLight Sets with **HR** Binocular Loupes			
Magnification and working distance in mm	HR 2.5x/340	HR 2.5x/420	HR 2.5x/520
HR 2.5x optics with i-View on S-FRAME LED LoupeLight Detachable Yellow Filter mPack LL with plug-in transformer Protective lenses 2 sterilisable levers Retaining cord Cleaning fluid Cleaning cloth Carrying case	C-008.32.440	C-008.32.441	C-008.32.442

LED LoupeLight Sets with **HRP** Binocular Loupes			
Magnification and working distance in mm	HRP 3.5x/420	HRP 4x/340	HRP 6x/340
HRP optics with i-View on S-FRAME LED LoupeLight Detachable Yellow Filter mPack LL with plug-in transformer Protective lenses 2 sterilisable levers Retaining cord Cleaning fluid Cleaning cloth Carrying case	C-008.32.443	C-008.32.444	C-008.32.445