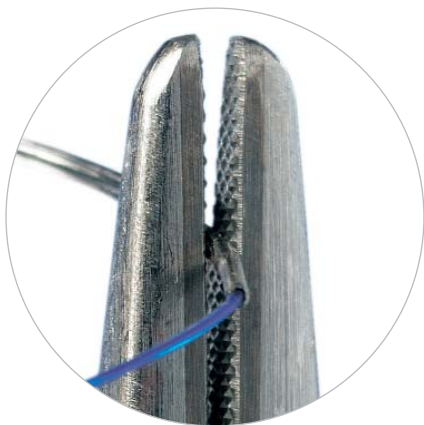


HEINE binocular loupes set new standards for innovative optics combined with high-tech materials and production techniques.

The use of magnifying loupes will increase your visual acuity and reduce eyestrain. Careful selection of working distance and correct viewing angle will avoid back and neck strain by allowing a comfortable working position. Simply select the lowest magnification that will meet your needs. The lower the magnification, the larger the field of view, and the easier the loupe will be to use.



Original size



2.5x/340mm, field of view 90mm



6x/340mm, field of view 40mm

**Binocular Loupes Specifications:**

	Magnification	Nominal working distance	Field of view**	Depth of field*
<b>HR 2,5x</b>	2,5x	340mm	90mm	110mm
<b>HRP 4x</b>	4x	340mm	50mm	40mm
<b>HRP 6x</b>	6x	340mm	40mm	30mm
<b>C 2.3/340</b>	2,3x	340mm	110mm	120mm
<b>C 2.3/450</b>	2,3x	450mm	130mm	190mm

\*Depth of field or "working distance range" for normal-sighted or corrected eyes with normal ability to accommodate, well-lit object

\*\*At nominal working distance



## HEINE C 2.3® Binocular Loupes

### Surface inspection, assembly work, repairs and laboratory use



C 2.3

- ∴ **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.
- ∴ **Low profile design.** Compact, low profile optics allow the user to easily look over the loupes for non-magnified view.
- ∴ **Super lightweight and comfortable – only 46 g.** Flexible coil temples wrap-around to fit the users 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.** 340mm or 450mm (13 or 18 inches).

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

#### C 2.3/340 mm

User's refractive error/  
Effective working distance

+2	440 mm
+1	390 mm
0	340 mm
-1	300 mm
-2	270 mm

#### C 2.3/450 mm

User's refractive error/  
Effective working distance

+2	670 mm
+1	560 mm
0	450 mm
-1	420 mm
-2	370 mm



#### C 2.3 Binocular Loupe

C 2.3/340 Loupe in case	T-00.32.039
C 2.3/450 Loupe in case	T-00.32.202

## Accessories



#### C 2.3 Binocular Loupe

Clear protective visor for C 2.3, to protect the examiner. The visor is attached in seconds to the loupe frame by two simple clips (pack of 12) **T-00.32.098**

Detachable protective lenses for C 2.3.

To protect the optics of the C 2.3 loupes. **T-00.32.097**

## HEINE HR® Binocular Loupes

### HR Technology for an even bigger field of view



- ∴ **The Brightest Image.** Our exclusive coating technology reduces light reflection to 0.3%, providing the brightest image of any comparable loupe.
  - ∴ **The Crispest Image with Colour Correction.** State-of-the-art HEINE optics with achromatic lenses provide a new standard for image clarity, crispness and colour compared with conventional Galilean loupes.
  - ∴ **Super-Wide, Super-Deep Field of View.** New improvements in our HR (High Resolution) optical technology provide a super-wide, fully useable, distortion-free field of view (90 mm) and the greatest depth of field (110 mm) to eliminate eyestrain even over extended periods of use.
  - ∴ **Dust- and Water-Resistant.** All HR loupes are dust- and water-resistant to IP65/IEC 60529 (2000) to ensure ease of cleaning/disinfection, and years of trouble-free use.
  - ∴ **Flexibility for Precise Adjustment.** HEINE Binocular loupes have independently adjustable optics left and right to select the exact inter-pupillary distance (PD). Conventional designs using a single adjuster are always a compromise. HR loupes can be adjusted precisely for each user for optimum optical performance by means of 4 different mounting positions on headband.
  - ∴ **Super Light.** HR optics weigh only 42 g for user-comfort even over extended periods.
- ∴ **2.5x Magnification:** HR 2.5x loupes offer an excellent balance between high magnification, field of view, depth of field, and ease of use. The HR 2.5x is our most popular model.

#### Specifications

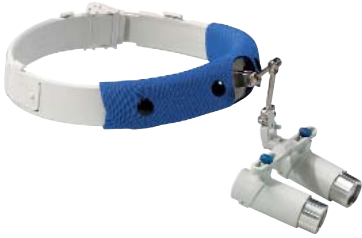
Magnification	2.5x
Nominal working distance	340 mm
Field of view dia.	>90 mm
<b>Optics only</b>	<b>T-00.32.504</b>





## HEINE HRP® Binocular Loupes

### HRP Technology for highly-magnified crisp images



HRP Binocular loupes of 4x or 6x magnification are used when high magnification is necessary. HRP loupes have been designed to provide the largest field of view and best depth of field possible for each magnification. Please note that the field of view and depth of field will decrease as magnification increases, making higher magnification loupes more difficult to get accustomed to.

- **Prismatic Optics.** Only top-quality, precision glass prisms are used to provide the highest resolution and clearest, crispest images over the entire field of view “edge-to-edge”.
  - **The Brightest Image in Perfect Colour.** Our exclusive coating technology reduces light reflection to 0.3% allowing for optimum light transmission, and ensuring perfect colour reproduction for brilliant, 3-dimensional images.
  - **Compact Design.** Although the higher magnification requires a more complex design, the weight of the HRP Loupes has been minimized. The 4x optics weigh only 78 g, the 6x weighs only 89 g.
  - **Dust- and Water-Resistant.** All HRP loupes are dust- and water-resistant to IP65/ IEC 60529 (2000) to ensure ease of cleaning/disinfection, and years of trouble-free use.
  - **Flexibility for Precise Adjustment.** HRP loupes have independently adjustable optics for selecting the exact inter-pupillary distance (PD). HRP loupes can be adjusted precisely for each user for optimum optical performance by means of 4 different mounting positions on headband.
  - **Field of View at High Magnification.** Advanced optical design ensures a wide field of view and a great depth of field even at high magnifications avoiding eyestrain over extended periods of use.
- **4x Magnification:** 4x loupes provide magnification for most advanced applications and still offer a large 50 mm field of view. The 340 mm working distance is ideal for applications where the user is in a sitting position.
  - **6x Magnification:** Here the focus is on maximum magnification, with a 40 mm field of view. The 340 mm working distance is ideal for applications where the user is in a stable, sitting position.



#### Specifications

	4x	6x
Magnification	4x	6x
Nominal working distance	340 mm	340 mm
Field of view dia.	>50 mm	>40 mm
<b>Optics only</b>	<b>T-00.32.705</b>	<b>T-00.32.706</b>

## Accessories for HEINE HR® and HRP® Binocular Loupes



Lightweight Headband	<b>T-00.32.516</b>
Case for HR and HRP Binocular Loupes	<b>T-00.32.530</b>

## HEINE 3S LED HeadLight®

### Powerful LED Illumination

The ultra bright and compact 3S LED HeadLight from HEINE for powerful, coaxial illumination.



- **30,000 Lux of bright, white light.** With a reference Colour Temperature of 6,000 Kelvin and an extraordinary 30,000 Lux of Illumination, the 3S LED HeadLight is more than twice as bright as other standard LED and Conventional Headlights.
- **Compact and lightweight.** The compact design ensures clear, unobstructed co-axial illumination. The 3S LED HeadLight weighs only 70 grams ensuring user comfort even during long periods of use.
- **Flexibility.** Continuously adjustable spot size and brightness control. Mains or portable power supply. optional adaptor for HR/HRP Binocular Loupe optic.

#### Technical Specifications 3S LED HeadLight:

Illumination:	30,000 Lux at a working distance of 250 mm.
Colour Temperature:	Reference Colour Temperature of 6,000 Kelvin.
LED Operating Life:	3W Super-High Output LED rated at 20,000 hours operating life.
Spot Adjustment:	Continuously Adjustable Iris Aperture. Range of 20 mm to 130 mm illuminated field diameter (at 500 mm).
Angle of Declination:	Fully-adjustable for precise user selection.
Rheostat:	Headband Mountable. Positive 'Off' Switch. Illuminated 'On' indicator. Integrated voltage regulator.
Optics:	Advanced multi-coated glass optics for maximum brightness.
Weight:	70 grams for 3S LED only. 90 grams with rheostat and connection cable.
Operating Time:	2.5 Hours with Portable Accubox II-L with NiMH Rechargeable Battery Pack. Accubox II-L can be connected directly to mains power supply for unlimited operating time. Use only with Accubox II-L!



#### 3S LED HeadLight

with headband Professional L, Accubox II-L and E10 transformer	<b>T-08.31.312</b>
Adaptor for HR/HRP Binocular Loupe optics	<b>T-00.32.519</b>
Combi - case	<b>T-79.03.000</b>