

**HEINE** QUALITY  
MADE IN GERMANY



LED NOW

LED NOW IN HEINE QUALITY.

**HEINE Binocular Loupes and Illumination**  
Simplifying examinations for the most accurate diagnosis.



## HEINE® HR 2.5x Binocular Loupes – Fully customised magnification system for every application.

### FUNCTIONALITY IN HEINE QUALITY



High-resolution achromatically correct lens system with edge-to-edge clarity and detail. Made in Germany.



Precision Optics. Ground optical grade glass lenses with anti-reflective coatings provide crisp, high-resolution images.



i-View Loupe Mount. Easy loupe adjustment and flip-up system.

### 4 SIMPLE STEPS TO YOUR CUSTOMISED LOUPE

Every examination situation is different, every working distance is different and every interpupillary distance is different. Therefore we have 4 simple steps to guarantee we recommend the best Loupe configuration for you to ensure you get the most out of your HEINE Loupes. Your HEINE Partner will help you to adjust and customise your loupe to your individual requirements, providing you with a reliable instrument that will serve you for many years to come.

- 1. Choose your magnification.** Most of our customers choose a HR 2.5x Binocular Loupe due to the ideal combination of a large field of view, excellent depth of field and magnification. For other magnifications, please contact your HEINE Partner.
- 2. Choose your working distance.** The visual sharpness of the focal area varies depending on the working field and the size of the user. We offer our loupes for working distances of 340mm, 420mm and 520mm. For the majority of health professionals a working distance of 420mm has proven to be ideal.

Your Height	Working Distance
Short	340mm
Average	420mm
Tall	520mm

- 3. Choose your mounting option.** Lightweight spectacle frame or headband for fatigue-free work.
- 4. Choose your illumination.** Compact and lightweight LED LoupeLight or the comfortable ML4 LED HeadLight with the Professional L Headband.

## HEINE® LED LoupeLight with HR 2.5x Binocular Loupes – The perfect match for the most accurate examination.

The combination of light and loupe delivers the ultimate in performance as high quality illumination maximizes the image quality of the loupe. Featuring LED<sup>HQ</sup> illumination for homogeneous illumination with accurate colour rendering that fills the entire field of view from edge-to-edge, the LED LoupeLight is the perfect compliment to the 2.5x magnification. All in all, a perfectly matched system with high quality components.



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## HEINE® LED MicroLight – Ultralight, universal Headlight.



For those who need a compact, lightweight illumination solution without magnification, we offer the LED MicroLight. Featuring LED<sup>HQ</sup> illumination for homogeneous illumination with true and natural colour rendering for every examination situation. Two mounting options offer individuality and easy handling. Illumination without compromises, in a lightweight design.

### FUNCTIONALITY IN HEINE QUALITY



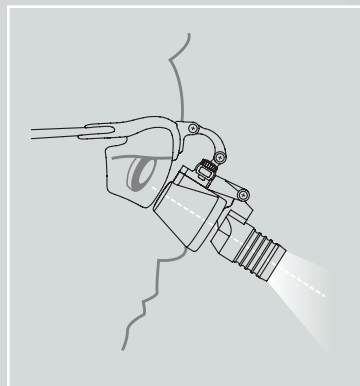
#### COAXIAL ILLUMINATION

Adjustable viewing angle over a wide range provides a completely shadow-free image and coaxial illumination of difficult to see areas.



#### COMPACT AND LIGHT DESIGN

Exclusive aluminium housing is lightweight and protects the optics against dust and moisture to ensure an extraordinary long lifespan.



The adjustable viewing angle ensures a completely shadow-free image and coaxial illumination in all examination situations. Precision lenses combined with LEDs in HEINE Quality provide an absolutely bright light spot that is uniform from edge to edge.





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## HEINE LED<sup>HQ</sup>: LIGHT, THAT SHOWS COLOURS AS THEY ARE



### LIGHT INTENSITY

To be able to discern even the slightest abnormalities, it is necessary to properly illuminate the object being examined. It's not a question of utilizing the brightest LED available, but utilizing the right LED and combining it with the optical system of the instrument to achieve the optimum brightness for the examination. This is guaranteed with all of our HEINE LED<sup>HQ</sup> instruments.



### HOMOGENEITY

Coaxial and homogeneous illumination with an absolutely bright light spot that is uniform from edge-to-edge for the perfect illumination of difficult to see areas.



### COLOUR RENDERING

The Colour Rendering Index (CRI) indicates how exactly colours are reproduced in comparison with daylight. The ML4 LED HeadLight produces an excellent CRI value of 90. Result: Red is red and blue is blue. For an absolute reliable and accurate diagnosis.



### THERMAL MANAGEMENT

LEDs provide optimal performance only in special temperature ranges. Too little or too much heat affects brightness, colour temperature, and reduces the life time. A compact, ergonomic design with heat-conducting foil and aluminium heat sink help maintain the optimal temperature range of the LEDs.



### DURABILITY

Integrated high quality LEDs have a virtually unlimited working life. HEINE LED Headlights are maintenance-free. The battery life is extended by the high efficiency of the LEDs and their low power consumption.

## HEINE<sup>®</sup> ML 4 LED HeadLight – Compact, ergonomic design without compromises

### FUNCTIONALITY IN HEINE QUALITY



#### COMFORTABLE AND SECURE FIT

The ML4 LED HeadLight Professional L headband has multiple adjustment points for comfort and stability – ideal for long procedures.



#### FLEXIBLE POWER SOURCE OPTIONS

100% freedom with a choice of cable-free mPack UNPLUGGED head-worn battery or mPack belt-worn battery pack.



#### SPOT SIZE

Adjustable from 30mm to 80mm (at a working distance of 420mm) to fit any examination situation.



## GUARANTEE

HEINE makes no compromises in manufacturing high quality medical instruments. Our commitment to vertical integration in manufacturing means we control all aspects of our instrument quality, from utilising carefully selected, well-matched materials to a high level of hand assembly. This ensures that each HEINE instrument meets or exceeds all requirements in any medical environment. We stand behind this commitment with a 5 year guarantee!

### HR 2.5 x Sets with i-View loupe mount

**Set A:** HR 2.5x optics with i-View loupe mount for S-FRAME, Protective lenses, 2 sterilisable swivel levers, Retaining cord, Cleaning fluid, Cleaning cloth, Carrying case

<b>340 mm</b> working distance	<b>C-000.32.355</b>
<b>420 mm</b> working distance	<b>C-000.32.356</b>
<b>520 mm</b> working distance	<b>C-000.32.567</b>

### ML 4 LED HeadLight Kits with S-GUARD and Power Source

ML4 LED HeadLight, HR 2.5x with i-View loupe mount and S-GUARD, mPack and plug-in transformer

<b>340 mm</b> working distance	<b>J-008.31.440</b>
<b>420 mm</b> working distance	<b>J-008.31.441</b>
<b>520 mm</b> working distance	<b>J-008.31.450</b>

### LED LoupeLight Sets with HR Binocular Loupes

HR 2.5x optics with i-View loupe mount on S-FRAME, Detachable yellow filter, mPack LL and plug-in transformer, Protective lenses, 2 sterilisable swivel levers, Retaining cord, Cleaning fluid, Cleaning cloth, Carrying case

<b>340 mm</b> working distance	<b>C-008.32.440</b>
<b>420 mm</b> working distance	<b>C-008.32.441</b>
<b>520 mm</b> working distance	<b>C-008.32.442</b>

### Headlights

ML4 LED HeadLight with mPack and plug-in transformer	<b>J-008.31.413</b>
ML4 LED HeadLight with mPack UNPLUGGED and plug-in transformer	<b>J-008.31.415</b>
LED MicroLight on S-FRAME with mPack LL, plug-in transformer, Retaining cord und Cleaning fluid, Carrying case	<b>J-008.31.270</b>
LED MicroLight on Lightweight Headband with mPack LL and plug-in transformer, Carrying case	<b>J-008.31.275</b>

### LED LoupeLight and ML4 LED HeadLight accessories

Polarisation filter P2 for attaching to loupes and headlights, for high-contrast images and to reduce reflexes.

Polarisation filter P2 for LED LoupeLight and HR Loupes	<b>C-000.32.535</b>
Polarisation filter P2 for ML4 LED HeadLight and HR Loupes	<b>J-000.31.326</b>
Spare polarisation filter P2 for HR Loupes (2 pairs)	<b>C-000.32.536</b>





## PRECISION SIMPLIFYING EVERYDAY LIFE.

Since the foundation of the company precision has been the most important factor in the development and manufacturing of our instruments: from the manufacturing of our lenses in our own Optical Production department through the metal processing and plating in our own Electroplating Facility to the fabrication of all injection moulds and tools, in our own Tool & Die department.

HEINE Quality is what generations of doctors have relied on. Every HEINE product is a world leader in terms of precision, ergonomic design and durability, and meets the relevant international standards (ISO/IEC).

This strong focus on quality without compromises is the secret to our success. In close and continued coordination with physicians and universities the HEINE research and development department is constantly creating new product developments. For us, innovation means to listen to our users attentively and develop products that improve their daily work.

HEINE was founded in 1946 and is an independent, family-owned company which leads the international market with its complete range of diagnostic instruments. Over 500 employees worldwide continue to contribute to this success.

We reserve the right to change specification without notice.

Your distributor

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