

**Once you've
tried it, you'll
never want to do
without it again.**

HEINE binocular loupes

Overview

It goes without saying that all of our binocular loupes 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:



	HR	HRP	C
Magnification working distance	2.5x 340mm 2.5x 420mm 2.5x 520mm	3.5x 420mm 4x 340mm 6x 340mm	2.3x 340mm 2.3x 450mm
Mounting options	S-FRAME spectacle frame [01], professional L headband [02]		lightweight headband [04]
Further articles	protective lenses, close-up lenses (to reduce the working distance from 340mm to 250mm), LoupeLight2 [03] (pages 135 136)	protective lenses, LoupeLight2 [03] (pages 135 136)	protective lenses
Features	i-View function*, modular, water-resistant, achromatic optics, optional prescription correction		–
Catalogue page	128-129	130-131	132

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



[01]



[02]



[03]



[04]

HEINE binocular loupes

How to choose the correct loupe

Various magnifications (from 2.3 x to 6 x), working distances, wearing options (unique S-FRAME, Lightweight headband and Professional L headband) and LoupeLight2 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)

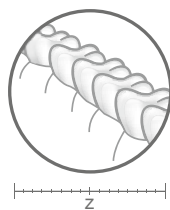
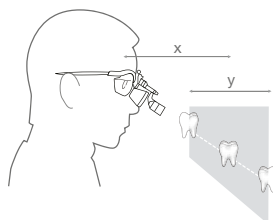
The distance, at which the optics of a loupe are sharply-focused.

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.



More information can be found on www.heine.com

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 3.5 x 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 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 LoupeLight2

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-Kynetium 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**
- ▶ **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



Set A

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 cloth carrying case	C-000.32.355	C-000.32.356	C-000.32.567



Set B with S-GUARD

Set B: HR 2.5x optics with i-View on Professional L headband S-GUARD splash protection protective lenses 2 sterilisable swivel levers cleaning cloth	C-000.32.365	C-000.32.366	C-000.32.367
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Set C without S-GUARD

Set C (without S-GUARD): HR 2.5x optics with i-View on Professional L Kopfband protective lenses 2 sterilisable swivel levers	C-000.32.865	C-000.32.866	C-000.32.867
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► For details of accessories and LoupeLight2 see [pages 134-136](#).

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 LoupeLight2

HRP specifications

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



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-Kynetium reduces weight (24 g)
- ▶ **Tough polycarbonate protective lenses**
- ▶ **Optional clip-in correction frame** for prescription lenses



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



without S-GUARD

HEINE PROFESSIONAL L HEADBAND WITHOUT S-GUARD

- ▶ **Ideal for spectacle-wearers in combination with their own spectacles**
- ▶ **Fully-adjustable for height and width to fit any head**
- ▶ **Hygienic and comfortable leather cushions**

HEINE HRP high resolution prismatic binocular loupes With i-View loupe mount

HRP sets with i-View loupe mount



Set A

Working distance in mm	HRP 3.5x 420	HRP 4x 340	HRP 6x 340
Set A: HRP optics with i-View on S-FRAME protective lenses 2 sterilisable swivel levers retaining cord cleaning cloth carrying case	C-000.32.430	C-000.32.431	C-000.32.432



Set B with S-GUARD

Set B: HRP optics with i-View on Professional L headband S-GUARD splash protection protective lenses 2 sterilisable swivel levers cleaning cloth	C-000.32.440	C-000.32.441	C-000.32.442
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Set C without S-GUARD

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
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► For details of accessories and LoupeLight2 see [pages 134-136](#).

HEINE C2.3K binocular loupes

The cost-effective all-purpose loupe



Ideal for dental laboratories and general medical examination.

- ▶ **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
- ▶ **The ideal all-purpose loupe.** The feather-light weight, low-profile design and low cost of the C2.3K loupe make it the ideal all-purpose loupe
- ▶ **Working distance.** 340mm or 450mm (13 or 18 inches)

Specifications	C2.3K 340mm	C2.3K 450mm
Magnification	2.3x	2.3x
Working distance	340mm	450mm
Field of view Ø	110mm	130mm
Weight	160g	160g
Depth of field	120mm	190mm

User's refractive error	Effective working distance C2.3x 340mm	Effective working distance C2.3x 450mm
+2	440mm	670mm
+1	390mm	560mm
0	340mm	450mm
-1	300mm	420mm
-2	270mm	370mm

Important information for those who wear glasses:

The C2.3K loupe can be worn with 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.

C2.3K binocular loupes

C2.3K 340 headband loupe in case	C-000.32.230
C2.3K 450 headband loupe in case	C-000.32.231



Detachable protective lenses for C2.3K to protect the optic	C-000.32.097
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HEINE binocular loupes

Ordering information

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

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

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

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

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

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

Accessories for HEINE binocular loupes

Ordering information



[01]



[02]



[03]



[04]



[05]



[06]



[07]



[08]



[09]



[10]



[11]

Mounting options

S-FRAME* for HR and HRP binocular loupes incl. retaining cord [01]	C-000.32.302
Professional L headband for HR and HRP optics [02]	C-000.32.549

* with protective lenses, large (lg).

Accessories for optics

HR close-up lenses in case for HR 2.5x 340mm. The close-up lenses reduce the working distance of the binocular loupes HR 2.5x 340mm to 250mm [03]	C-000.32.523
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Protective lenses to protect the optics of the HR and the HRP loupes

protective lenses for HR loupes (5 pairs) [04]	C-000.32.537
protective lenses for HRP loupes [05]	C-000.32.027
sterilisable swivel levers for HR and HRP loupes with i-View [06]	C-000.32.551
carrying case for binocular loupe optics or for all sets with S-FRAME [07]	C-000.32.552

Carrying cases and storage cases may deviate in shape and colour.

Accessories for S-FRAME

S-FRAME retaining cord [08]	C-000.32.305
S-FRAME replacement part set with side rubbers, nose pad (1 piece) and screw [09]	C-000.32.308
clip-in correction frame for prescription lenses [10]	C-000.32.309
protective lenses, large (lg), 1 pair (standard) [11]	C-000.32.306
protective lenses, small (sm), 1 pair	C-000.32.307

HEINE LoupeLight2 Compact LED^{HQ} headlight



- ▶ **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}**
- ▶ **Compact, lightweight (50 g).** Ensures perfect comfort
- ▶ **Aluminium housing.** Exclusive aluminium housing protects the optics against dust and moisture to ensure an extraordinary long lifespan and optimal thermal management
- ▶ **Coaxial illumination.** Compact coaxial design ensures a completely shadow-free image and allows for excellent illumination of difficult to see areas
- ▶ **Optional filter.** Polarisation filter P2 improves contrast and yellow filter reduces blue light
- ▶ **Replaceable connecting cord** with high-quality splashproof threaded connector with a length of 1.5 m. Connects the LoupeLight2 with the mPack mini
- ▶ **Incl. coloured attachment clips for personalisation.** To fixate the cable and to identify your LoupeLight

Technical specification

Illumination	typ. 55,000 lux*
Colour temperature	typ. 4,000 kelvin
LED operating life	typ. 50,000 hours
Spot size	the illuminated field is designed to complement the HR HRP loupes. 81 mm Ø at 420 mm, 95 mm Ø at 520 mm working distance
Angle of declination	stepless and individually adjustable for every examination
Operating time	typ. 9 h with mPack mini (in continuous operation at full power typ. 4 hours)

*Measured at a working distance of 180 mm from the light emission to the object.



[01] Conventional system
[02] HEINE precision 4-lens system

- ▶ **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

HEINE LoupeLight2 sets with mPack mini and E4-USB plug-in transformer

LoupeLight2 sets with HR binocular loupes



Magnification working distance in mm	HR 2.5x 340	HR 2.5x 420	HR 2.5x 520
HR 2.5 x optics with i-View on S-FRAME and LoupeLight2 detachable yellow filter mPack mini mPack mini belt clip E4-USB plug-in transformer connecting cord protective lenses 2 sterilisable levers retaining cord, cleaning cloth, case	C-008.32.450	C-008.32.451	C-008.32.452

LoupeLight2 sets with HRP binocular loupes



Magnification working distance in mm	HRP 3.5x 420	HRP 4x 340	HRP 6x 340
HRP optics with i-View on S-FRAME and LoupeLight2 detachable yellow filter mPack mini mPack mini belt clip E4-USB plug-in transformer connecting cord protective lenses 2 sterilisable levers retaining cord, cleaning cloth, case	C-008.32.453	C-008.32.454	C-008.32.455

Carrying cases and storage cases may deviate in shape and colour.

- ▶ For further information on the mPack mini, please see [pages 141 and 168](#).
- ▶ Power supplies may deviate in size and shape.

HEINE LoupeLight2 and accessories

Ordering information



[01] [02]



[03] [04]



[05]



[06]



[07]



[08]

LoupeLight2

LoupeLight2 for HR / HRP loupes for i-View loupe mount* [01]	C-008.32.226
detachable yellow filter [02]	C-000.32.241
polarisation filter P2 for LoupeLight2 and HR loupes [03] + [04]	C-000.32.535
spare polarisation filter P2 for HR loupes (2 pairs) [04]	C-000.32.536
connecting cord SC1 (1.5m Ø 2.4 mm) for LoupeLight2 mPack mini [05]	C-000.32.240
connecting cord SC2 (1.5m Ø 3.2 mm) for LoupeLight2 mPack mini [06]	C-000.32.243

LoupeLight2 with power source for i-View loupe mount (HR|HRP)

LoupeLight2 with mPack mini and E4-USB plug-in transformer* [07]	C-008.32.265
mPack mini belt clip [08]	X-000.99.006

*Not suitable for HR | HRP loupes with a rigid loupe mount.

HEINE mPack mini

Compact and lightweight power source for LoupeLight2 | MicroLight2



- ▶ **Operating time typ. 9 hours.** In continuous operation at full power typ. 4 hours
- ▶ **Charging time typ. 4 hours**
- ▶ **Compact and lightweight.** With a weight of just 95 g and dimensions of 44 x 23 x 101 mm the power source can be easily stowed

HEINE headlights

Overview

It goes without saying that all of our headlights 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:



	MicroLight2	ML4 LED HeadLight
Illumination	LED ^{HQ}	
Light intensity*	typ. 55,000 lux	typ. 90,000 lux
Colour temperature (kelvin)	typ. 4,000K	typ. 5,500K
Spot size	81 mm	30 – 80mm
Power sources operating time	mPack mini typ. 9 hours	mPack UNPLUGGED typ. 3.5 hours mPack typ. 8.5 Std.
Weight	80g with S-FRAME spectacle frame 190g with Lightweight headband	260g 460g with mPack UNPLUGGED
Angle of declination	fully-adjustable	
Brightness control	0 – 100%	
Features	waterproof, optional yellow filter, head- or spectacle-worn,	adjustable spot size, optional yellow filter, polarisation filter, expandable with HR and HRP loupes, head-worn,
Catalogue page	139-140	143-144

*Measured at a working distance of 180mm from the light emission to the object.

HEINE MicroLight2 Compact LED^{HQ} headlight

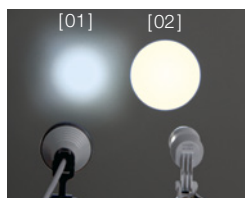


- ▶ **There's LED. And there's LED^{HQ}.** HEINE has set a new standard which maintains that only the best is good enough, from the selection of materials to processing, from light intensity to dimmability, and from thermal management to a colour rendering index as high as possible. **That's what we call LED in HEINE quality – or LED^{HQ}**
- ▶ **Compact and lightweight.** Ensures perfect comfort
- ▶ **Aluminium housing.** Exclusive aluminium housing protects the optics against dust and moisture to ensure an extraordinary long lifespan and optimal thermal management
- ▶ **Coaxial illumination.** Compact coaxial design ensures a completely shadow-free image and allows for excellent illumination of difficult to see areas
- ▶ **Homogeneity.** An absolutely bright light spot that is uniform from edge-to-edge for the perfect illumination in all examination situations
- ▶ **Replaceable connecting cord** with high-quality splashproof threaded connector with a length of 1.5 m. Connects the MicroLight2 with the mPack mini
- ▶ **Incl. coloured attachment clips for personalisation.** To fixate the cable on the S-FRAME and to identify your headlight

Technical specification

Illumination	typ. 55,000 lux*
Colour temperature	typ. 4,000 kelvin
LED operating life	typ. 50,000 hours
Weight	80g together with S-FRAME, 190g together with lightweight headband
Angle of declination	stepless and individually adjustable for every examination
Operating time	typ. 9 h with mPack mini (in continuous operation at full power typ. 4 hours)

* Measured at a working distance of 180 mm from the light emission to the object.



[01] Conventional system
[02] HEINE precision
4-lens system

- ▶ **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

HEINE MicroLight2

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-Kynetium reduces weight (80g together with MicroLight2)
- ▶ **Tough polycarbonate protective lenses**

HEINE LIGHTWEIGHT HEADBAND



- ▶ **Lightweight** (190 g together with MicroLight2). Ideal for spectacle wearers
- ▶ **Fully-adjustable for width to fit any head**
- ▶ **Hygienic and comfortable leather cushions**

HEINE mPack mini

Compact and lightweight power source for LoupeLight2 | MicroLight2



- ▶ **Freedom from cables** that tie the user to desk, wall or static power supplies
- ▶ **Operating time typ. 9 hours.** In continuous operation at full power typ. 4 hours
- ▶ **Charging time typ. 4 hours**
- ▶ **Charge status indicator.** Display of remaining battery power with three LEDs. The flashing of the last LED indicates that immediate charging is required. During charging the LEDs light up one after the other
- ▶ **Stepless light intensity control.** Optimum brightness setting between 100 % and 3 % reduces reflexes
- ▶ **USB cord** with E4-USB medical approved plug-in power supply
- ▶ **The integrated galvanic separation module** protects the battery and the user against the consequences of defective power supplies, thus preventing the possibility of the full mains voltage flowing directly to the housing. We recommend the use of a medical approved plug-in power supply
- ▶ **Simple cleaning.** Closed housing, no seams at the sides, few edges
- ▶ **Compact and lightweight.** With a weight of just 95 g and dimensions of 44 x 23 x 101 mm the power source can be easily stowed
- ▶ **Optimised mPack mini belt clip** for easy attachment of the power source to the belt or coat pocket. The mPack mini can also be charged in the belt clip [01]
- ▶ **Li-ion technology.** No „memory effect“, without worrying about charge level or battery condition
- ▶ **Integrated rechargeable battery.** Can be exchanged at authorised specialist dealers



[01]

▶ For further information on the mPack mini, please see [page 168](#).

HEINE MicroLight2

Ordering information



[01]

MicroLight2

on S-FRAME with mPack mini, mPack mini belt clip, E4-USB plug-in transformer with USB cord, connecting cord, retaining cord, in case [01]	J-008.31.276
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on Lightweight headband with mPack mini, mPack mini belt clip, E4-USB plug-in transformer with USB cord, connecting cord, in case [02]	J-008.31.277
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[02]

detachable yellow filter [03]	C-000.32.241
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connecting cord SC1 (1.5m Ø 2.4mm) for MicroLight2 mPack mini [04]	C-000.32.240
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connecting cord SC2 (1.5m Ø 3.2mm) for MicroLight2 mPack mini [05]	C-000.32.243
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Carrying cases and storage cases may deviate in shape and colour.



[03]



[04]



[05]

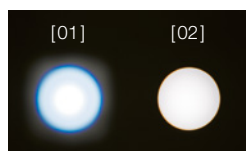
HEINE ML4 LED HeadLight

Ultra bright coaxial LED^{HQ} illumination



- ▶ **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}**
- ▶ **Adjustable illumination spot size:** 30 mm to 80 mm spot size range (at 420 mm working distance) to fit any examination situation
- ▶ **Bright and homogenous illumination.** Absolutely bright light spot that is uniform from edge-to-edge for the perfect illumination in all examination situations
- ▶ **Flexibility.** Flexible power source options: 100 % mobility with a choice of cable-free mPack UNPLUGGED head-worn battery or mPack belt-worn battery pack
- ▶ **Comfortable and secure fit.** The Professional L headband has multiple adjustment points and soft padding for comfort and stability – even during long examinations
- ▶ **Optional filters.** Polarisation filter P2 improves contrast and yellow filter reduces blue light

Technical specification



[01] Competitor product
[02] HEINE ML4 LED HeadLight

Illumination	typ. 90,000 lux*
Colour temperature	typ. 5,500 kelvin
LED operating life	typ. 50,000 hours
Spot adjustment	30 mm to 80 mm at 420 mm working distance
Angle of declination	stepless and individually adjustable for every examination
Rheostat	headband-mounted
Operating time	typ. 8.5 hours with mPack and typ. 3.5 hours with mPack UNPLUGGED of continuous ON time at full power

* Measured at a working distance of 180 mm from the light emission to the object.

HEINE ML4 LED HeadLight

Power options

HEINE mPACK



- ▶ **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 typ. 8.5 hours of continuous ON time at full power
- ▶ **Fast charge.** Charges to full capacity in typ. 2 hours
- ▶ **Charge status indicator.** Always lets you know how much operating charge you have left
- ▶ **Brightness control.** Optimal adjustment of light intensity
- ▶ **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

HEINE mPACK UNPLUGGED HEADBAND-MOUNTED RECHARGEABLE BATTERY



- ▶ **Wireless.** 100 % mobility for absolute freedom of movement
- ▶ **Rechargeable battery integrated on the headband**
- ▶ **Lightweight with balanced weight distribution.** High level of comfort
- ▶ **Charge status indicator** indicates remaining operating time
- ▶ **Intelligent.** Can be used as mains power supply even in “charge” mode
- ▶ **Fast charge.** Charges to full capacity in typ. 2 hours. Operating time typ. 3.5 hours of continuous ON time at full power
- ▶ **Top safety standards.** Integrated charge and performance checks during operation. Lithium polymer technology. UL compliant

▶ For the optional EN 50 table | wall unit please see [page 167](#).

HEINE ML4 LED HeadLight

Ordering information



[01]



[02]



[03]



[04]



[05]



[06]



[07]



[08]



[09]

ML4 LED HeadLight with Professional L headband

ML4 LED HeadLight (without power source) [01]	J-008.31.410
ML4 LED HeadLight with plug-in transformer [01] + [02]	J-008.31.411
ML4 LED HeadLight with mPack and plug-in transformer [01]+ [03]	J-008.31.413
ML4 LED HeadLight with mPack UNPLUGGED and plug-in transformer UNPLUGGED [01] + [04]	J-008.31.415
ML4 LED HeadLight with wall mounted EN 50 UNPLUGGED charger and 2 x mPack UNPLUGGED [01] + [05]	J-008.31.416

ML4 LED HeadLight accessories

detachable yellow filter [06]	J-000.31.321
extension cord from plug-in transformer UNPLUGGED to mPack UNPLUGGED, 2m [07]	X-000.99.668
polarisation filter P2 for ML4 LED and HR loupes [08] + [09]	J-000.31.326
spare polarisation filter P2 for HR loupes (2 pairs) [09]	C-000.32.536

Power supplies may deviate in size and shape.

HEINE ML4 LED HeadLight with HR|HRP binocular loupes

The ML4 LED HeadLight is optionally supplied with HR|HRP binocular loupes incl. i-View loupe mount and with or without S-GUARD. The binocular loupe is fully adjustable for every examiner and for every examination axis.

- ▶ **HEINE S-GUARD:** Rapid and simple symmetric adjustment of binocular loupes with splash protection by protective lenses
- ▶ **HEINE i-View for ML4 LED HeadLight:** Provides any angle of view and flips up the optics independently of the illumination beam



ML4 LED HeadLight kits with S-GUARD and power source

The following kits contain: ML4 LED HeadLight on Professional L headband, HR|HRP optics with i-View and S-GUARD, mPack and plug-in transformer

Kit 1:	with HR binocular loupe	2.5x 340 mm	J-008.31.440
Kit 2:	with HR binocular loupe	2.5x 420 mm	J-008.31.441
Kit 11:	with HR binocular loupe	2.5x 520 mm	J-008.31.450
Kit 3:	with HRP binocular loupe	3.5x 420 mm	J-008.31.442
Kit 4:	with HRP binocular loupe	4x 340 mm	J-008.31.443
Kit 5:	with HRP binocular loupe	6x 340 mm	J-008.31.444



ML4 LED HeadLight kits with power source without S-GUARD

The following kits contain: ML4 LED HeadLight on Professional L headband, HR|HRP optics with i-View, mPack and plug-in transformer

Kit 1c:	with HR binocular loupe	2.5x 340 mm	J-008.31.452
Kit 2c:	with HR binocular loupe	2.5x 420 mm	J-008.31.453
Kit 11c:	with HR binocular loupe	2.5x 520 mm	J-008.31.463
Kit 3c:	with HRP binocular loupe	3.5x 420 mm	J-008.31.454
Kit 4c:	with HRP binocular loupe	4x 340 mm	J-008.31.456
Kit 5c:	with HRP binocular loupe	6x 340 mm	J-008.31.457

HEINE ML4 LED HeadLight UNPLUGGED with HR|HRP binocular loupes



ML4 LED HeadLight UNPLUGGED kits with S-GUARD and power source

The following kits contain: ML4 LED HeadLight on Professional L headband, HR|HRP optics with i-View and S-GUARD, wall transformer EN 50 UNPLUGGED, 2x mPack UNPLUGGED

Kit 6:	with HR binocular loupe	2.5x 340mm	J-008.31.445
Kit 7:	with HR binocular loupe	2.5x 420mm	J-008.31.446
Kit 12:	with HR binocular loupe	2.5x 520mm	J-008.31.451
Kit 8:	with HRP binocular loupe	3.5x 420mm	J-008.31.447
Kit 9:	with HRP binocular loupe	4x 340mm	J-008.31.448
Kit 10:	with HRP binocular loupe	6x 340mm	J-008.31.449



ML4 LED HeadLight UNPLUGGED kits with power source without S-GUARD

The following kits contain: ML4 LED HeadLight on Professional L headband, HR|HRP optics with i-View, wall transformer EN 50 UNPLUGGED, 2x mPack UNPLUGGED

Kit 6c:	with HR binocular loupe	2.5x 340mm	J-008.31.458
Kit 7c:	with HR binocular loupe	2.5x 420mm	J-008.31.459
Kit 12c:	with HR binocular loupe	2.5x 520mm	J-008.31.464
Kit 8c:	with HRP binocular loupe	3.5x 420mm	J-008.31.460
Kit 9c:	with HRP binocular loupe	4x 340mm	J-008.31.461
Kit 10c:	with HRP binocular loupe	6x 340mm	J-008.31.462

HR|HRP binocular loupes – retrofitting sets

For HEINE ML4 LED HeadLight



Pos. 1



Pos. 2



[01]

Retrofitting set HR|HRP binocular loupes for ML4 LED HeadLight

The sets enable you to equip your existing ML4 LED HeadLight with a binocular loupe. The set contains HR|HRP optics with i-View splash protection

		with S-GUARD splash protection	without S-GUARD splash protection
with HR binocular loupe	2.5x 340mm	J-000.31.370	J-000.31.287
with HR binocular loupe	2.5x 420mm	J-000.31.371	J-000.31.288
with HR binocular loupe	2.5x 520mm	J-000.31.365	J-000.31.292
with HRP binocular loupe	3.5x 420mm	J-000.31.372	J-000.31.289
with HRP binocular loupe	4x 340mm	J-000.31.373	J-000.31.290
with HRP binocular loupe	6x 340mm	J-000.31.374	J-000.31.291
5 sterilisable swivel levers for i-View loupe mount for ML4 LED HeadLight [01]			C-000.32.399

HEINE ML4 LED HeadLight

Power sources



[01]



[02]



[03]

mPack and plug-in transformer [01]	X-007.99.672
Plug-in transformer for ML4 LED HeadLight [02]	X-095.16.330
mPack with EN 50 table wall unit (incl. 90° angled adaptor, instrument support for Professional L headband) [03]	X-095.17.302

Power supplies may deviate in size and shape.