

HEINE 3S LED HeadLight®

Powerful LED Illumination



3S LED HeadLight
with headband Professional L



3S LED HeadLight
with headband Standard L

➤ Attachment options for Loupes

➤ 30,000 Lux at 25cm

➤ LED operating life: 20,000 hours

➤ Adjustable spot size



The ultra bright and compact 3S LED HeadLight 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. Integrated attachment options for HR/HRP Binocular Loupes and Prism optics for Video adaptation.
- **Classification** 1 M per EN 60825-1.
- **Micro-Absorption System** for the Integrated Cooling Fan ensures quiet and vibration-free operation (patent pending).
- **Optional yellow filter** to reduce the Blue-Spectrum of light which can be selected to avoid premature hardening of composite materials.

Technical Specification 3S LED HeadLight:

Illumination:	30,000 Lux at a working distance of 250mm.
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, 20 mm to 130 mm illuminated field diameter (at 500 mm). Small diameter is ideal for ENT and Dental Applications.
Angle of Declination:	Fully Adjustable for precise user selection.
Rheostat:	Headband-mounted. Positive 'Off' Switch. Illuminated 'On' indicator. Integrated voltage regulator.
Optics:	Advanced multi-coated glass optics for maximum brightness.
Operating Time:	4 hours with mPack and Li-ion battery for 70% more capacity than with conventional rechargeable batteries. 2 hours with mPack UNPLUGGED. Unlimited operating time when connected directly to mains power supply.
Power Sources:	Plug-in transformer, mPack, EN50, mPack UNPLUGGED, EN50 UNPLUGGED.

Expansion options:

The 3S LED is optionally supplied with **HR/HRP Binocular Loupes** incl. i-View LoupeBracket and S-Guard splash protection (see 3S LED/HR, HRP Kit). The binocular loupe is fully adjustable for every examiner and for every examination axis.

- **HEINE S-Guard®.** Rapid and simple adjustment of binocular loupes while on the head thanks to S-Guard with splash protection. Once set, the binocular loupe always stays in the ideal position. The fixed position of the binocular loupes on the S-Guard splash protection and the rigid connection between the headband and the nose pads ensure that the binocular loupes do not slip once their position has been set. The ergonomic nose pads also ensures a comfortable and secure position for the binocular loupe.
- **HEINE i-View® LoupeBracket.** The headlamp and binocular loupes can be moved independently. If no magnification is required during the examination, the binocular loupe can be retracted without changing the previously-selected setting. The illumination remains fixed on the point where light is required. The synchronized adjustment mechanism allows simple single-handed operation to return the binocular loupes to exactly the same position, i.e. all previously selected settings remain. Possible to mount a sterilizable lever.
- **Video application.** Ideally-suited for teaching, research, patient education, digital patient history. 3S LED HeadLight with A-Cam video camera, A-Cam Processor and prism optics. Optional PAL or NTSC format. Please specify when ordering.



HEINE 3S LED HeadLight®

Powerful LED Illumination



3S LED HeadLight with headband Professional L

3S LED HeadLight with headband Professional L	J-08.31.310
with headband Professional L, plug-in transformer and headband-mounted brightness control	J-08.31.311
same, with mPack and plug-in transformer	J-08.31.313

3S LED HeadLight with headband Standard L

3S LED HeadLight with headband Standard L	J-08.31.305
with headband Standard L, plug-in transformer and headband-mounted brightness control	J-08.31.306
same, with mPack and plug-in transformer	J-08.31.308



3S LED HeadLight with headband Professional L and video camera

A-Cam and prism optics, with C-Mount and A-Cam Processor, EN 50 Rheostat Control Module. PAL or NTSC format (please specify)	J-08.31.336
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mPack and plug-in transformer	X-07.99.672
HEINE plug-in transformer for 3S LED HeadLight	X-95.16.310

Prism Optics with C-mount for 3S LED HeadLight	J-00.31.320
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3S LED Adaptor for HR/HRP/HR-C Binocular Loupe	C-00.32.519
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Detachable yellow filter	J-00.31.321
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Combi - case	C-79.03.000
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A-Cam camera with processor (available systems: PAL or NTSC, please specify when ordering)	J-00.31.201
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HEINE 3S LED HeadLight® UNPLUGGED

with headband battery (rechargeable) - mPack UNPLUGGED

▶ NEW !



100% mobility – for absolute freedom of movement!

The 3S LED HeadLight with mPack UNPLUGGED allows one-of-a-kind mobility without restriction or hindrance caused by cables, cords, or similar connections.

- ∴ **Rechargeable battery integrated on the headband.** No interfering cable connections.
- ∴ **Lightweight with balanced weight distribution.** High level of comfort. Lightweight and compact.
- ∴ **LED charge status indicator.** LED indication of remaining operating time.
- ∴ Can be charged by **wall or plug-in transformer.**
- ∴ **Direct operation possible while charging** through the use of the mobile plug-in transformer.
- ∴ **Charging time 2 hours.**
- ∴ **mPack UNPLUGGED rechargeable battery.** Operating time 2 hours.
- ∴ **Intelligent charging system.** Automatic changeover from operating to charging mode (in the wall unit). Battery-friendly charging.
- ∴ **Top safety standards.** Integrated charge and performance checks during operation. Lithium polymer technology (selected non-flammable materials). UL-compliant.
- ∴ **System compatibility** with mPack for even greater capacity.

∴ 100% freedom of movement

∴ Low weight

∴ LED charge status indicator

3S LED HeadLight UNPLUGGED on Professional L headband

with mPack UNPLUGGED and plug-in transformer	J-08.31.315
with wall unit EN 50 UNPLUGGED and 2 x mPack UNPLUGGED	J-08.31.316
Extension Cord transformer UNPLUGGED, 2 m	X-00.99.668

HEINE 3S LED HeadLight®



Recommended 3SLED/HR, HRP Kits

Recommended Product Order Configurations to ensure the most flexibility the 3SLED/HR/HRP System has to offer. The following kits include main system elements but no carrying cases or ancillary accessories:

Consisting of 3SLED with headband Professional L, mPack and plug-in transformer, headband-mounted brightness control, S-Guard splash protection, i-View LoupeBracket, cleaning fluid

Kit 1: with HR Binocular Loupe	2.5x/340mm	J-08.31.345
Kit 2: with HR Binocular Loupe	2.5x/420mm	J-08.31.346
Kit 3: with HRP Binocular Loupe	3.5x/420mm	J-08.31.347
Kit 4: with HRP Binocular Loupe	4x/340mm	J-08.31.348
Kit 5: with HRP Binocular Loupe	6x/340mm	J-08.31.349

Recommended 3SLED UNPLUGGED/HR, HRP Kits

Contents similar to 3SLED/HR, HRP Kits 1-5 but with:

Wall unit EN50 UNPLUGGED with 2x mPack UNPLUGGED.

Kit 6: with HR Binocular Loupe	2.5x/340mm	J-08.31.390
Kit 7: with HR Binocular Loupe	2.5x/420mm	J-08.31.391
Kit 8: with HRP Binocular Loupe	3.5x/420mm	J-08.31.392
Kit 9: with HRP Binocular Loupe	4x/340mm	J-08.31.393
Kit 10: with HRP Binocular Loupe	6x/340mm	J-08.31.394



Conversion sets for HR binocular loupes

If you already own a 3SLED HeadLight with HR binocular loupe, you can retrospectively expand it with S-Guard splash protection and i-View LoupeBracket with this refitting set:

With S-Guard splash protection, i-View LoupeBracket, sterilizable swivel lever, cleaning fluid

J-00.31.380



Retrofitting set incl. HR/HRP binocular loupe

The retrofit set allows you to also equip your 3SLED HeadLight with a binocular loupe, S-Guard splash protection and i-View LoupeBracket:

Consisting of S-Guard splash protection, i-View LoupeBracket, sterilizable swivel lever, cleaning fluid

with HR Binocular Loupe	2.5x/340mm	J-00.31.370
with HR Binocular Loupe	2.5x/420mm	J-00.31.371
with HRP Binocular Loupe	3.5x/420mm	J-00.31.372
with HRP Binocular Loupe	4x/340mm	J-00.31.373
with HRP Binocular Loupe	6x/340mm	J-00.31.374

5 Steri-levers for i-View LoupeBracket

C-00.32.399



i-View LoupeBracket for 3SLED HeadLight and sterilizable swivel lever, only

J-00.31.385



HEINE MD 1000® F.O. Headlight



∴ Ultra light F.O. Headlight

∴ 50,000 lux light output at 20 cm

∴ Adjustable light spot



- ∴ **Compact, high-tech optics** for homogeneous, exceptionally-bright illumination.
- ∴ **Ultra-light, highly-flexible fiber optic cable** with gown clips, length 3 m.
- ∴ **Height and angle of illumination adjustable by a single control.**
- ∴ **Lightweight, flexible headband: Professional L.** Adjustable for height and width with detachable soft leather forehead cushion.
- ∴ **Adjustable light spot** with sterilizable lever.
- ∴ **Can be combined with HEINE High Resolution Binocular Loupes** for magnification from 2x–6x.
- ∴ **Can be fitted with a CCD camera.**
- ∴ **Light sources: HK 7000, HK 7000 D, XENON 1000 F.O. Projector.**
Length of the F.O. cable: 3 m.
Adaptors for other manufacturers' projectors available.
- ∴ **HK 7000 D projector for dental applications** features a yellow filter to reduce the blue spectrum. Can be selected to avoid premature hardening of composite materials.
- ∴ **50,000 lux light output at 20 cm** with HK 7000 projector.

For more information about F.O. projectors, see pages 114–116.

Expansion options:

The MD 1000 F.O. is optionally supplied with HR/HRP binocular loupes incl. i-View LoupeBracket and S-Guard splash protection (see MD 1000 F.O. /HR, HRP Kit). The binocular loupe is fully adjustable for every examiner and for every examination axis.

- ∴ **HEINE S-Guard® Splash protection.** Rapid and simple adjustment of binocular loupes while on the head thanks to S-Guard with splash protection. Once set, the binocular loupe always stays in the ideal position. The fixed position of the binocular loupes on the S-Guard splash protection and the rigid connection between the headband and the nose pads ensure that the binocular loupes do not slip once their position has been set. The ergonomic nose pads also ensure a comfortable and secure position for the binocular loupe.
- ∴ **HEINE i-View® LoupeBracket.** The headlamp and binocular loupe can be moved independently. If no magnification is required during the examination, the binocular loupe can be retracted without changing the previously-selected setting. The illumination remains fixed on the point where light is required. The synchronized adjustment mechanism allows simple, single-handed operation to return the binocular loupe to exactly the same position, i.e. all previously selected settings remain. Possible to mount a sterilizable lever.
- ∴ **Video application.** Ideally-suited for teaching, research, patient education, digital patient history. MD 1000 F.O. Headlight with A-Cam video camera, with A-Cam Processor and prism optics.

230 V is the standard mains voltage. If a different voltage is required, e.g. 120 V, please specify when ordering.

HEINE MD 1000® F.O. Headlight



MD 1000 F.O. Headlight fitted with prism optics and C-mount CCD camera A-Cam.

MD1000 F.O. Headlight with headband Professional L

MD 1000 F.O. Headlight with sterilizable adjuster sleeve and three gown clips	J-03.31.231
MD 1000 F.O. Headlight with video A-Cam camera and prism optics, with C-Mount and A-Cam Processor, without projector	J-03.31.236
HK 7000 F.O. Projector, complete	Y-96.15.121
HK 7000 D F.O. Projector, complete	Y-96.15.124
XENON 1000 F.O. Projector, complete	Y-96.15.117
Spare bulb for XENON 1000 F.O. Projector, 100W	Y-96.15.108
Spare bulb for HK 7000, HK 7000 D F.O. Projector, 150W	Y-96.15.102
Adaptor MD 1000 for HR/HRP/HR-C series loupes	J-00.31.212
Video prism optics for MD 1000 F.O.	J-00.31.208
A-Cam camera with processor (available systems: PAL or NTSC, please specify when ordering)	J-00.31.201

Recommended MD1000 F.O./HR, HRP Kits

Recommended Product Order Configurations to ensure the most flexibility the MD 1000 F.O. /HR, HRP System has to offer. The following kits include main system elements but no carrying cases or ancillary accessories.

Please order desired projector separately:

Consisting of MD 1000 F.O. with headband Professional L, S-Guard splash protection, i-View LoupeBracket, cleaning fluid

Kit 1: with HR Binocular Loupes 2.5x/340mm	J-03.31.245
Kit 2: with HR Binocular Loupes 2.5x/420mm	J-03.31.246
Kit 3: with HRP Binocular Loupes 3.5x/420mm	J-03.31.247
Kit 4: with HRP Binocular Loupes 4x/340mm	J-03.31.248
Kit 5: with HRP Binocular Loupes 6x/340mm	J-03.31.249



Conversion set for HR binocular loupes

If you already own a MD 1000 F.O. Headlight with HR binocular loupes, you can retrospectively expand it with S-Guard splash protection and i-View LoupeBracket with this refitting set:

With S-Guard splash protection, i-View LoupeBracket, sterilizable swivel lever, cleaning fluid	J-00.31.280
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Retrofitting set incl. HR/HRP binocular loupes

The retrofit set allows you to also equip your MD 1000 F.O. Headlight with a binocular loupe, S-Guard splash protection and i-View LoupeBracket:

Consisting of S-Guard splash protection, i-View LoupeBracket, sterilizable swivel lever, cleaning fluid

with HR Binocular Loupes 2.5x/340mm	J-00.31.270
with HR Binocular Loupes 2.5x/420mm	J-00.31.271
with HRP Binocular Loupes 3.5x/420mm	J-00.31.272
with HRP Binocular Loupes 4x/340mm	J-00.31.273
with HRP Binocular Loupes 6x/340mm	J-00.31.274

5 Steri-levers for i-View LoupeBracket	C-00.32.399
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i-View LoupeBracket for MD 1000 and sterilizable swivel lever, only	J-00.31.285
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