

## 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, XENON 1000 F.O. Projector.**  
Length of the F.O. cable: 3 m.  
Adaptors for other manufacturers' projectors available.
- ∴ **50,000 lux light output at 20 cm** with HK 7000 projector.

For more information about F.O. projectors, see pages 127–128.

### 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 for MD 1000.** The headlight 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.



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-003.31.231
MD 1000 F.O. Headlight with video A-Cam camera and prism optics, with C-Mount and A-Cam Processor, without projector	J-003.31.236
HK 7000 F.O. Projector, complete	Y-096.15.121
XENON 1000 F.O. Projector, complete	Y-096.15.117
Spare bulb for XENON 1000 F.O. Projector, 100W	Y-096.15.108
Spare bulb for HK 7000 F.O. Projector, 150W	Y-096.15.102
Adaptor MD 1000 for HR/HRP/HR-C series loupes	J-000.31.212
Video prism optics for MD 1000 F.O.	J-000.31.208
A-Cam camera with processor (available systems: PAL or NTSC, please specify when ordering)	J-000.31.201

**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

<b>Kit 1:</b> with HR Binocular Loupes 2.5x/340mm	J-003.31.245
<b>Kit 2:</b> with HR Binocular Loupes 2.5x/420mm	J-003.31.246
<b>Kit 3:</b> with HRP Binocular Loupes 3.5x/420mm	J-003.31.247
<b>Kit 4:</b> with HRP Binocular Loupes 4x/340mm	J-003.31.248
<b>Kit 5:</b> with HRP Binocular Loupes 6x/340mm	J-003.31.249



**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-000.31.280



**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-000.31.270
with HR Binocular Loupes 2.5x/420mm	J-000.31.271
with HRP Binocular Loupes 3.5x/420mm	J-000.31.272
with HRP Binocular Loupes 4x/340mm	J-000.31.273
with HRP Binocular Loupes 6x/340mm	J-000.31.274



5 Steri-levers for i-View LoupeBracket	C-000.32.399
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<b>i-View</b> LoupeBracket for MD 1000 and sterilizable swivel lever, only	J-000.31.285
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## Fiber Optic Projector HEINE HK 7000®

### ► NEW DESIGN !



The F.O. Projector **HK 7000** incorporates a special long-life halogen bulb rated at 150 Watts. If more light is needed for a particular examination, a boost switch can be operated, giving up to 40 % more light. Suitable for all HEINE Systems with fiber optic illumination. Dimensions: Width 177 mm, Height 125 mm, Depth 217 mm. Weight 3,180g.

- ∴ **Powerful Halogen bulb.** For maximum brightness.
- ∴ **Aspheric illumination optics.** Intense light with high colour temperature.
- ∴ **Continuous light intensity adjustment without colour temperature changes.** Allows brightness reduction with no red shift of light.
- ∴ **Boost switch.** Gives up to 40 % more light.
- ∴ **Extended bulb life** of up to 300 hours.
- ∴ **Folding handle.** Easy to transport.
- ∴ **For desk, wall, or floor-mounting.** Adaptable to individual needs.

∴ Continuous brightness control

∴ +40% Boost switch

### F.O. Projector HK 7000

HK 7000, 150 W XHL Halogen spare bulb and fuse included	Y-096.15.121
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Spare fuse	Y-096.15.110
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XHL Halogen spare bulb 150W	Y-096.15.102
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Wall support for HK 7000 (adaptor for universal fiber optic lamp HKL included)	Y-096.15.105
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## Fiber Optic Projector HEINE XENON 1000®

**► NEW DESIGN !**



The extraordinary light output of up to 125,000 lux (with, for example, the HEINE F.O. LoupeLight®) and a colour temperature of 6,000 K – close to daylight – make the XENON 1000 the light source of choice for the most demanding examination conditions. Dimensions are identical to HK 7000.

- ✦ **High-Tech 100W Xenon bulb.** Close to daylight.
- ✦ **Extended bulb life** of up to 300 hours.
- ✦ **Electronic control of mains voltage.**
- ✦ **Aspheric illumination optics.** Intense light with high colour temperature.
- ✦ **Continuous light intensity adjustment without colour temperature changes.** Allows brightness reduction with no red shift of light.
- ✦ **Folding handle.** Easy to transport.
- ✦ **For desk, wall, or floor-mounting.** Adaptable to individual needs.

✦ Continuous brightness control

✦ Xenon bulb

✦ Color temperature of 6,000 K

### F.O. Projector XENON 1000

XENON 1000, fuse included	Y-096.15.117
XHL Xenon spare bulb 100W	Y-096.15.108

## Standard Fiber Optic Cable for HEINE Fiber Optic Projectors

For F.O. Projector HK 4000, HK 7000 and XENON 1000.  
Length incl. handle: 180 cm.



- ✦ **4 mm fiber bundle of high quality.** Outstanding light transmission. Highly flexible cable.
- ✦ **Inner metal sheathing.** Resistant to kinking.
- ✦ **Smooth outer plastic sheathing.** Easy to clean.

Standard Fiber Optic cable	Y-003.99.518
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## Wheeled Stand

Suitable for all HEINE Fiber Optic projectors and for projectors of other manufacturers.  
Dimensions: Height 900 mm, Weight 3,500 g.  
Base-plate: Width 180 mm, Height 150 mm, Depth 240 mm



- ✦ **5 legs with 60 cm wide base.** Ensures stability.
- ✦ **2 wheel brakes.** Holds the stand securely in position.

Wheeled stand – without base-plate	Y-096.50.001
Wheeled stand – with base-plate	Y-096.50.002

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

### Adaptor between Projectors and F.O. Cable



Short adaptors		
Projector manufacturer	F.O. cable manufacturer	F.O.
HEINE	Storz	Y-096.12.104
HEINE	Richard Wolf	Y-096.12.105
HEINE	ACMI	Y-096.12.107
HEINE	Olympus	Y-096.12.108
Richard Wolf	HEINE	Y-096.12.120
Storz	HEINE	Y-096.12.102
Olympus	HEINE	Y-096.12.106
Fuji	HEINE	Y-096.12.118
Pentax	HEINE	Y-096.12.119

### Adaptor between Instrument and F.O. Cable



Adaptor handles		
Instrument manufacturer	F.O. cable manufacturer	F.O.
HEINE	Winter & Ibe Storz / Olympus *	Y-096.12.115
HEINE	Richard Wolf	Y-096.12.116
HEINE	ACMI / Olympus **	Y-096.12.117

\*up to 12/2003 \*\*from 01/2004



Short adaptors		
Instrument manufacturer	F.O. cable manufacturer	F.O.
HEINE	Winter & Ibe Storz / Olympus *	Y-096.12.109
HEINE	Richard Wolf	Y-096.12.111
HEINE	ACMI / Olympus **	Y-096.12.112
Winter & Ibe Storz / Olympus	HEINE	Y-096.12.113
Richard Wolf	HEINE	Y-096.12.114