

# Micro Fiber Heads

## HFR series

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CCS HFR

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Micro Fiber Heads

## LED Fiber Light (ring type) that uses original converging technology



HFR-25-30

HFR-25-10

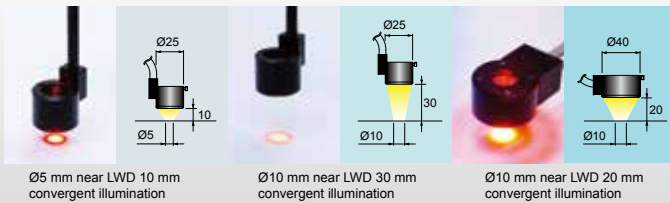
HFR-40-20\*

\* Three dedicated light sources are required for use.  
Dedicated Light Source (HLV2-22-NR-3W series)  
Product Page ▶ P.119

■ HFR-25-10

■ HFR-25-30

■ HFR-40-20

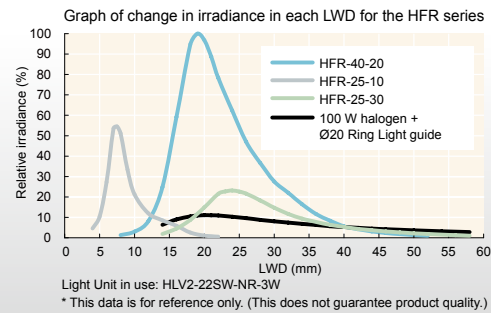


Ø5 mm near LWD 10 mm convergent illumination

Ø10 mm near LWD 30 mm convergent illumination

Ø10 mm near LWD 20 mm convergent illumination

Model name	HFR-25-10/30 HFR-40-20
Fiber material	Plastic
Case material	Aluminum alloy
Flexible tube material	SUS
Strand diameter (µm)	500
Fiber arrangement	-
Numerical aperture (NA)	0.5
Receiving angle (°)	60
Transmitted wavelength (nm)	400 to 700
Minimum bending radius (mm)	30

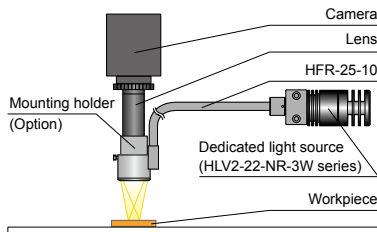


Direct Lighting	LDR2 LDR2-LA LDR-LA1 SQR SQR-TP
Convergent Lighting	HLDR-IP
Diffused Lighting	HPR2 HPR LFR LKR FPR FPQ2
Direct Lighting	LDL2 LDLB HLDL2
Diffused Lighting	TH LFL HPD2 HPD LDM2 LAV PDM LFX2 LFX3 LFX2
Collimated Lighting	MSU MFU
Ultraviolet Lighting	UV2 UV LNSP-UV-FN
Infrared Lighting	IR2
Spot Lighting, Etc.	HLV2 LV LSP HFS/HFR HLV2-NR HLV2-3M-RGB-3W PFB2 PFBR
Convergent Lighting	LNSP CU-LNSP LNSP-FN LN/LN-HK
Diffused Lighting	LNSD LND2 HLND LT LNV/HLDN
Oblique Angled Lighting	LNIS
Lenses	LNIS-FN Telecentric Lens Macro Lens

## Characteristics

The HFR series, a ring type, does not illuminate a broad range like a halogen fiber light, but can perform convergent illumination for the required field of vision.

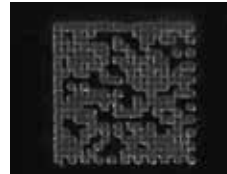
### Example configuration (HFR-25-10)



### Imaging using the HFR-25-10 (White)

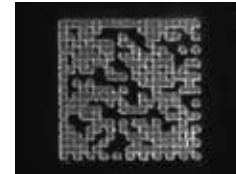


100 W halogen + Ring Light guide  
LWD 20 mm



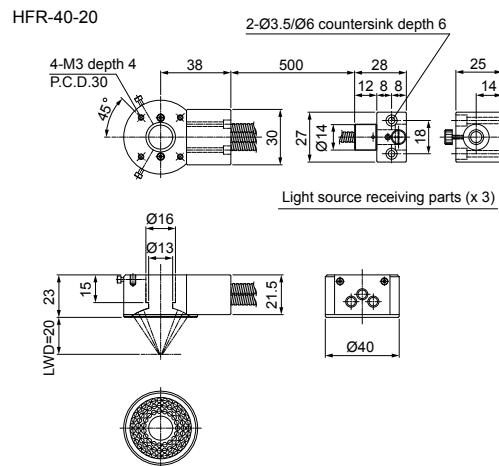
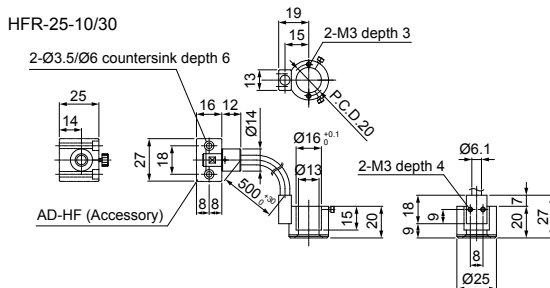
Intensity: 100%  
Shutter speed: 1/4,000 sec

HFR-25-10 (White): LWD 10 mm



Intensity: 100%  
Shutter speed: 1/4,000 sec

## Dimensions (mm)



## Options

### Mounting holder for the HFR-25-10/30

Light Units can be easily installed and mounted in the position for the most efficient convergence.



Dedicated Light Source (HLV2-22-NR-3W series) Product Page ▶ P.119

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