

LED Fiber Light (straight) that uses original converging technology



Model name	HFS-14-500
Fiber material	Multicomponent glass
Case material	Aluminum alloy
Flexible tube material	SUS
Strand diameter (μm)	50
Fiber arrangement	Random
Numerical aperture (NA)	0.56
Receiving angle (°)	68
Transmitted wavelength (nm)	300 to 1,300
Minimum bending radius (mm)	50

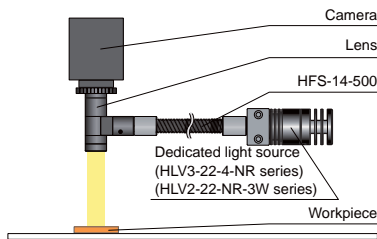
Applications As a light source for a telecentric lens, visual inspection for chips, alignment mark imaging, etc. (Common for the HFS and HFR series)

Features

This is a unique Light Unit system that melds the strengths of both LEDs and fibers. The HFS series, a straight type, is lightweight, compact, and easy to manage, and therefore can be used in a variety of applications.

We accept custom orders. • Changes in length, etc. Please feel free to inquire.

Example configuration (HFS-14-500)

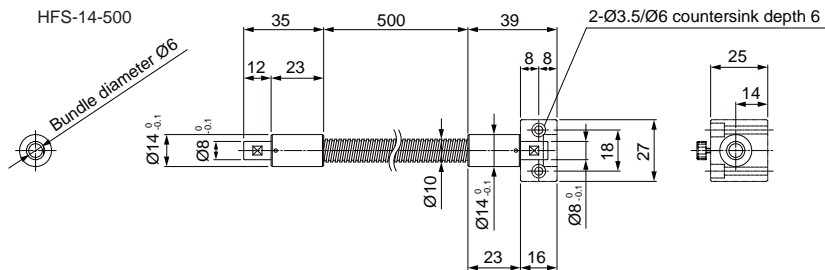


It can be used in a variety of situations



Dedicated Light Source (HLV3-22-4-NR series) Product Page ▶ P.165
Dedicated Light Source (HLV2-22-NR-3W series) Product Page ▶ P.167

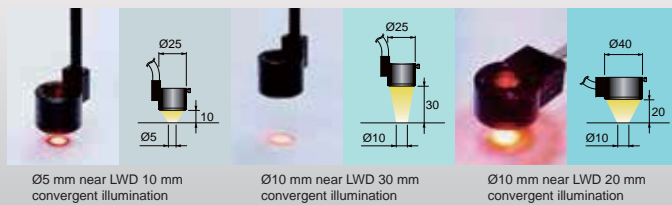
Dimensions (mm)



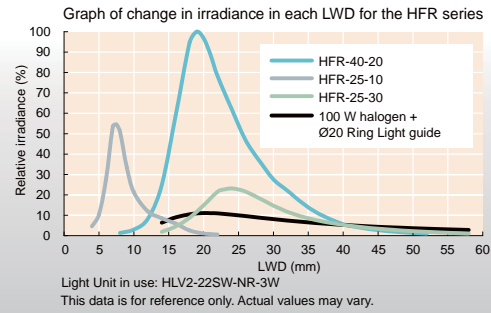
Common Specifications for the HFS/HFR Series

Model name	Operating temperature and humidity	Storage temperature and humidity	Weight
HFS-14-500	Temperature: 0 to 40°C, Humidity: 20% to 70%RH (with no condensation)	Temperature: -10 to 60°C, Humidity: 20% to 70%RH (with no condensation)	115 g
HFR-25-10			60 g
HFR-25-30			250 g
HFR-40-20			

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



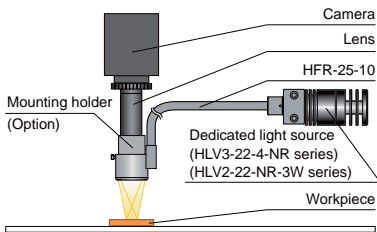
Model name	HFR-25-10/30 HFR-40-20
Fiber material	Plastic
Case material	Aluminum alloy
Flexible tube material	SUS
Strand diameter (µm)	500
Fiber arrangement	-
Numerical aperture (NA)	0.5
Receiving angle (°)	60
Transmitted wavelength (nm)	400 to 700
Minimum bending radius (mm)	30



Features

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.

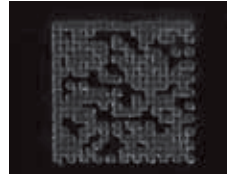
Example configuration (HFR-25-10)



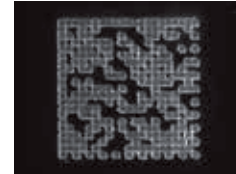
Imaging using HFR-25-10 (white)



100 W halogen + Ring Light guide:
LWD 20 mm



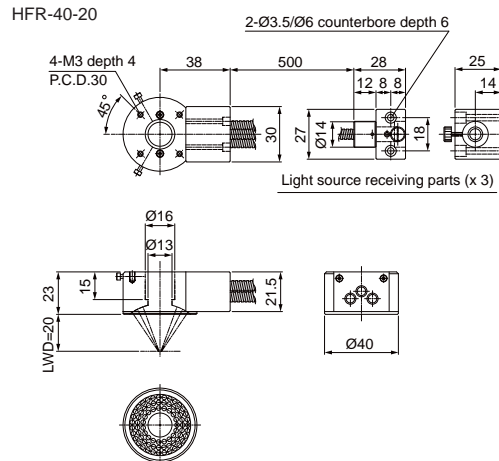
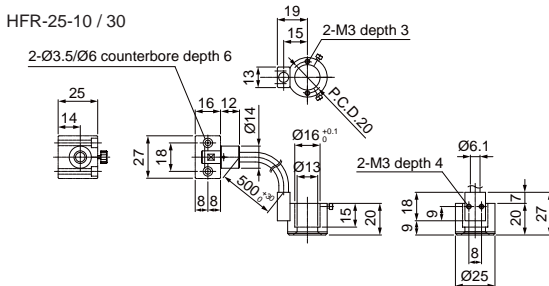
HFR-25-10 (White): LWD 10 mm



We accept custom orders. Please feel free to inquire.

- Shape modifications
- Brightness increases
- Changes in wavelength, etc.

Dimensions (mm)



Options

Mounting holder for HFR-25-10 / -30

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



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You can inquire using our website.

- Sample Testing
- Light Unit Selection
- Free Product Trial
- Custom Orders
- Product Details
- Pricing/Quotation
- Discontinued Products

Direct Lighting

- LDR2
- LDR2-LA
- LDR-LA1
- SQR
- SQR-TP

Diffused Lighting

- HPR2
- LFR
- LKR
- FPR
- FPQ2

Direct Lighting

- LDL2
- LDLB
- HLDL2
- HL

Diffused Lighting

- TH2 (5 types)
- TH
- LFL
- HPD2
- LDM2
- LAV
- PDM
- LFX3
- LFX3-PT
- LFX3

Collimated Lighting

- MSU
- MFU

Strobe Lighting

- PF

Water-proof

- HLDR-IP/
- HSL-PCL

Ultraviolet

- UV2
- UV
- UV
- LNSP-UV-FN

Infrared

- IR2

Intensity Control

- IU

Spot Lighting, Etc.

- HLV3
- HLV2
- LV
- LSP
- HFS/HFR
- HLV3-NR
- HLV3-3M-RGB-4
- HLV2-NR
- HLV2-3M-RGB-3W
- PFBR
- PFB3
- PFB2

Convergent Lighting

- LNL
- LNSP2
- LNSP
- Coaxial Units
- LNSP-FN
- LN/LN-HK

Diffused Lighting

- LNSD
- LND2
- HLND
- LT
- LNV

Oblique/Angled Lighting

- LNDG
- LNS2
- LNIS
- LNIS-FN

Lenses

- Telecentric Lens
- Macro Lens