

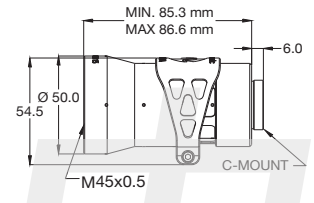
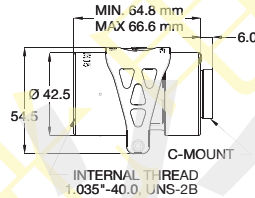
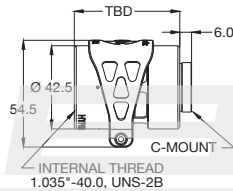
HYPIRIA

1.0 - 2.9 μm



The HypIRia are telecentric objective lenses optimized for 1 to 2.9 μm . They deliver a high throughput for high-quality imaging. Three different focal lengths are available: 25.3 mm (HypIRia 25), 15 mm (HypIRia 15) and 11 mm (HypIRia 11). Those lenses possess a broadband anti-reflective coating to reduce stray light and maximize the throughput.

The HypIRia adjustments are precise and highly resistant to harsh environment. The input port of the lenses can easily be coupled with standard filters and protective windows. Because of their high throughput, the HypIRia lenses are perfectly suited for industrial application and fundamental research such as low light imaging.



TECHNICAL SPECIFICATIONS	HYPIRIA 25	HYPIRIA 15	HYPIRIA 11
OPTICAL CHARACTERISTICS			
Focal length (mm)	25.3 mm	15.0 mm	11.0 mm
F-number	2.6	2.1	2.1
Image size	Diameter: 12.3 mm	Diameter: 12.3 mm	Diameter: 12.3 mm
Spectral range	1 - 2.9 μm	1 - 2.9 μm	1 - 2.9 μm
Optical output	Telecentric $\pm 0.1^\circ$ (image space)	Telecentric $\pm 1.1^\circ$ (image space)	Telecentric $\pm 2.9^\circ$ (image space)
RMS Spot radius*	8.8 μm	10.4 μm	11.2 μm
Maximum working distance	Infinity	Infinity	Infinity
Minimum working distance (mm)	300	300	300
Angle of view (deg)			
Diag	27.6°	44.6°	60.4°
H	21.7°	34.8°	47.2°
V	17.5°	27.8°	37.8°
Full diagonal FOV @ 1m distance	491 mm	820 mm	1164 mm
MTF-50 (l/mm)	25	21	19
Distorsion	< 5%	< 5%	< 5%
MECHANICAL CHARACTERISTICS			
Dimensions (mm)	54.5 x 48 x 60	54.5 x 48 x 70	55.5 x 50 x 92
Mount	C-Mount	C-Mount	C-Mount
Weight	0.4 kg	0.5 kg	0.6 kg
Front Filter Thread	1.035-40 UNS-2A (Thorlabs SM1 Compatible)	1.035-40 UNS-2A (Thorlabs SM1 Compatible)	M45 x 0.5

* Average over image and all wavelengths.

