

HypIRia™

SWIR LENSES - 1.0 to 2.9 μm



The HypIRia are wide-aperture, image-space telecentric lenses precisely crafted to provide clear and bright images in the SWIR spectral range. A broadband anti-reflective coating on carefully selected glass delivers high throughput and low-aberration imaging on an range extending from 1.0 to 2.9 μm .

A translational focus provides excellent stability during focusing. Robustly built, they are well suited for industrial applications or field work.

Three focal lengths are currently available.

OPTICAL CHARACTERISTICS			
	HypIRia 11	HypIRia 15	HypIRia 25
Focal length (mm)	11	15	25
f-number	2.1	2.1	2.6
Image size (diameter, mm)	12.3	12.3	12.3
Spectral range (μm)	1.0 - 2.9	1.0 - 2.9	1.0 - 2.9
Telecentricity (image space) (°)	± 3.0	± 1.6	± 1.1
Maximum working distance	Infinity	Infinity	Infinity
Minimum working distance (mm)	300	300	300
Full diagonal angle view (°)	61.0	46.5	29.3
Full diagonal FOV @ 1m distance (mm)	1212	875	533
Field of view @1m distance (9.60 x 7.68 mm sensor) (mm)	931 x 737	670 x 531	407 x 322
MTF-50 on the sensor (lp/mm)	16	16	16
Distortion (%)	< 2	< 2	< 2
MECHANICAL CHARACTERISTICS			
Dimensions, L x \varnothing (mm)	91 x 57	68 x 57	69 x 57
Mount	C-Mount	C-Mount	C-Mount
Weight (kg)	0.8	0.6	0.6
Front filter thread	M45 x 0.5	M45 x 0.5 & 1.035-40 UNS-2A	M45 x 0.5 & 1.035-40 UNS-2A

