

Bi-telecentric lens for 2/3" sensor (XR-5M)

LS-XR-5M series · Telecentric lenses · 25 models

Bi-telecentric lens for 2/3" sensor.

Features

- Supports cameras with sensors up to 2/3" (dia. 11 mm)
- Excellent double-sided telecentric optical path, ultra-low distortion design
- Very large depth of field to image products at different heights
- High-precision alignment: measurement error < 0.3 pixel over the full field of view
- Lightweight, purpose-built structure performs stably during high-speed motion



Common specifications

Mount	C
Sensor size	2/3" φ11mm

Models

Model	Lighting mode	Working distance (mm)	DOF (mm)	Iris (F)	MTF>0.3 (lp/mm)	Telecentricity (°)	Optical distortion (%)
LS-XR-5M2-110	non-coaxial	110	0.55mm	F9	125	<0.05°	<0.05%
LS-XR-5M2-110C	built-in coaxial	110	0.55mm	F9	125	<0.05°	<0.05%
LS-XR-5M1.5-110	non-coaxial	110	0.85mm	F9	120	<0.05°	<0.05%
LS-XR-5M1.5-110C	built-in coaxial	110	0.85mm	F9	120	<0.05°	<0.05%
LS-XR-5M1-110	non-coaxial	110	1.5mm	F7	125	<0.05°	<0.05%

LS-XR-5M1-110C	built-in coaxial	110	1.5mm	F7	125	<0.05°	<0.05%
LS-XR-5M08-110	non-coaxial	110	1.8mm	F9	130	<0.05°	<0.05%
LS-XR-5M08-110C	built-in coaxial	110	1.8mm	F9	130	<0.05°	<0.05%
LS-XR-5M05-110	non-coaxial	110	3.5mm	F8	120	<0.03	<0.03%
LS-XR-5M05-110C	built-in coaxial	110	3.5mm	F8	120	<0.03	<0.03%
LS-XR-5M05-178	non-coaxial	178	4mm	F9	110	<0.03	<0.03%
LS-XR-5M05-275	non-coaxial	275	4.5mm	F9	110	<0.03°	<0.03%
LS-XR-5M03-110	non-coaxial	110	7mm	F7	130	<0.03°	<0.03%
LS-XR-5M03-110C	built-in coaxial	110	7mm	F7	130	<0.03°	<0.03%
LS-XR-5M03-178	non-coaxial	178	6.5mm	F6	160	<0.01°	<0.03%
LS-XR-5M0265-178	non-coaxial	178	9mm	F6	160	<0.01°	<0.03%
LS-XR-5M022-200	non-coaxial	200	8.5mm	F6	160	<0.01°	<0.02%
LS-XR-5M02-178	non-coaxial	178	9mm	F7	135	<0.03°	<0.03%
LS-XR-5M0178-158	non-coaxial	158	17.5mm	F5.3	180	<0.05°	<0.01%
LS-XR-5M015-238-L90	non-coaxial	238	21mm	F6.5	145	<0.05°	<0.03%
LS-XR-5M014-200	non-coaxial	200	22mm	F6.5	145	<0.02°	<0.02%
LS-XR-5M012-250	non-coaxial	250	35mm	F8	125	<0.05°	<0.05%
LS-XR-5M0095-250	non-coaxial	250	48mm	F7.5	125	<0.05°	<0.05%
LS-XR-5M0078-290	non-coaxial	290	60mm	F5	140	<0.05°	<0.05%
LS-XR-5M0064-320	non-coaxial	320	85mm	F5	140	<0.05°	<0.05%

More values per model (Optical magnification (X), Max object field of view (mm), Object field of view 1/2.5" (5.7x4.2) (mm), Object field of view 1/2.3" (6.4x4.5) (mm), Object field of view 2/3" (8.4x7.1) (mm), Sensor format, Aperture) are on each product page.

