

Bi-telecentric lens for 23x23mm sensor (25LM series)

LS-25LM series · Telecentric lenses · 15 models



Bi-telecentric lens supporting target-face cameras up to 23 x 23 mm, with an ultra-low-distortion bilateral telecentric optical path, large depth of field and a hardware measurement error below 0.3 pixel over the full field of view.

Features

- Maximum support for a 23 x 23 mm target face camera
- Excellent bilateral telecentric optical path, ultra low distortion design
- Large depth of field design for high and low difference imaging products
- High-precision tuning: hardware measurement error in the full field of view is <0.3 pixel
- Lightweight fastening structure designed to perform stably at high speed
- 25 million pixels
- National technology patent

Applications

- Imaging products with high and low differences (large depth of field)

Common specifications

Lighting	non-coaxial
Mount	F/M58
Resolution	25 million pixels
View distance maximum	32.5 mm

Ordering code: HF<WD>-25LM<magnification>

Models

Model	Magnification (X)	WD (mm)	DOF (mm)	Aperture	MTF>0.3 (LP/mm)	Telecentricity (°)	Optical distortion (%)
LS-HF250-25LM055	0.55	250	3.5	F8	130	<0.03°	<0.03%
LS-HF130-25LM063	0.63	130	2	F7.5	145	<0.03°	<0.03%
LS-HF175-25LM09	0.9	175	0.85	F7	160	<0.03°	<0.03%

LS-HF110-25LM14	1.4	110	0.45	F11	160	<0.03°	<0.03°
LS-HF110-25LM175	1.75	110	0.3	F11	180	<0.03°	<0.03°
LS-HF110-25LM08	0.8	110	4.2	F18	80	<0.03°	<0.03°
LS-HF120-25LM068	0.68	120	8.5	F12	100	<0.05°	<0.05°
LS-HF158-25LM045	0.45	158	6.5	F7	120	<0.05°	<0.05°
LS-HF230-25LM036	0.36	230	20	F18	120	<0.05°	<0.05°
LS-HF250-25LM31	0.31	250	16	F12	125	<0.05°	<0.05°
LS-HF250-25LM026	0.26	250	18.5	F8	160	<0.05°	<0.05°
LS-HF285-25LM021	0.21	285	22	F8	160	<0.05°	<0.05°
LS-HF300-25LM019	0.19	300	25	F7	160	<0.05°	<0.05°
LS-HF320-25LM017	0.17	320	30	F8	160	<0.05°	<0.05°
LS-HF410-25LM012	0.12	410	35	F8	160	<0.05°	<0.05°

More values per model (Sensor size (mm), View distance maximum (mm), View distance 1" (12.8x9.6) (mm), View distance 1.1" (14.2x10.4) (mm), View distance 4K linear array (28.7) (mm), Sensor format, Working distance (mm), Field of view) are on each product page.