

Coaxial illumination line scan lens

LS-COAX series · Line scan lenses · 6 models



Line scan lenses designed for coaxial lighting systems, avoiding the resolution loss caused by using a beam splitter; compatible with 16K/5 μ , 16K/3.5 μ and 12K/5 μ line scan cameras, with a 30 x 80 mm beam splitter, optical distortion <0.001% (1 pixel) and F3.8 aperture.

Features

- Designed for coaxial lighting system
- Avoid the resolution deduction caused by using the beam splitter
- Achieve the detection requirements of high resolution and high contrast
- 16K/5 μ and compatible with 16K/3.5 μ and 12K/5 μ line scan cameras
- With 30 x 80mm beam splitter
- Ultra-low optical distortion, less than 0.001%, or 1 pixel
- Big aperture, FNO. 3.8

Applications

- Industrial: height - detecting metal markings
- Electronic component: yes or no / identify - check the number of tiny chips and poor imprint
- Electronic component: blemish / stain - detecting camera defects
- Electronic equipment: yes or no / identify - detect poorly bundled / broken lead wires of motors

Common specifications

Max image size	dia. 82
Magnification range	1X-3X
Central resolution	200lp/mm
Distortion	<0.001%
Beam splitter	30 x 80mm
Note	Drawings on f03-p018 show LS1610L/1615L/1617L/1620L/1630L-P01; LS-LS1613L-P01 is listed in the table only.

Models

Model	EFL	Standard magnification	F/NO	Optical distortion	Working distance	Conjugate distance	Flange distance
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LS-LS1610L-P01	116mm	1X	3.8-16	0.0005%	157.39	449.53	212.09
LS-LS1613L-P01	116mm	1.33X	4.3-16	0.001%	171.54	579.35	327.28
LS-LS1615L-P01	145mm	1.5X	4.3-16	0.001%	127.3	592.1	351.96
LS-LS1617L-P01	116mm	1.7X	4.0-16	0.001%	148.83	611.85	381.66
LS-LS1620L-P01	120mm	2X	4.0-16	0.0005%	135.95	641.94	424.66
LS-LS1630L-P01	120mm	3X	4.0-16	0.005%	112.6	759.5	565.5

More values per model (Image size (dia.), Mount, Focal length, Sensor format, Aperture) are on each product page.

Dimensions

