



PMS-LLA01-3528M

4K 35mm Line Scan Industrial Lens

High-resolution line-scan optics with a maximum 32 mm image circle, 7 μm resolution, <0.1% distortion and selectable 0.05X-0.15X magnification

Ø32 mm Image Circle

7 μm Resolution

<0.1% Distortion

M42 / M72 / F-Mount

KEY FEATURES

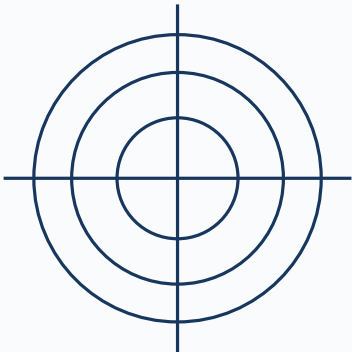
- High-resolution optical design with a maximum Ø32 mm image circle
- Compatible with 7 μm line-scan cameras
- High uniformity, <0.1% distortion and 7 μm optical resolution
- Designed for machine vision and industrial automation

TECHNICAL PARAMETERS

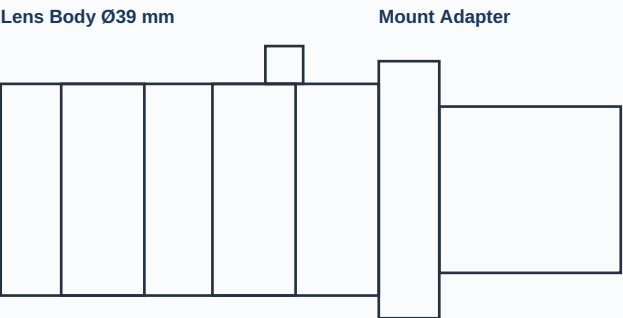
Parameter	0.05X	0.10X	0.15X
Model	PMS-LLA01-3528M	PMS-LLA01-3528M	PMS-LLA01-3528M
Maximum Image Circle	Ø32 mm	Ø32 mm	Ø32 mm
Resolution	7 μm	7 μm	7 μm
Aperture	F2.8-F16	F2.8-F16	F2.8-F16
Focal Length	35 mm	35 mm	35 mm
Distortion	<0.1%	<0.1%	<0.1%
Relative Illumination	65%	65%	65%
Working Distance	700 mm	350 mm	240 mm
Conjugate Distance	769 mm	421 mm	312 mm
Mount Options	M42	M72	F-Mount

Selection note: A 4096-pixel line sensor with 7 μm pixels has an active line length of about 28.7 mm, which fits within the Ø32 mm image circle. Object-side line width is approximately active sensor length divided by magnification.

MECHANICAL INTEGRATION REFERENCE



Front View

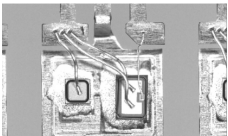


Reference optical length: 63.6 ± 5.0 mm

M42 configuration drawing; M72 and F-Mount options available

Exact flange dimensions should be confirmed with the selected camera mount

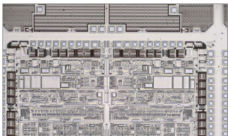
TYPICAL APPLICATIONS



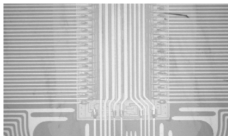
Defect Inspection



Surface Texture & Color



PCB Defect Inspection



Circuit Trace Inspection

Manufacturer-Direct Selection Support

Provide the camera model, active line length, pixel size, required line field of view, working distance, line rate, mount and smallest defect. POMEAS can help review lens-camera compatibility before quotation.