



PMS-LLA05-3528M

4K 35mm Line Scan Industrial Lens

High-resolution line-scan optics with a maximum 32 mm image circle, 7 μm resolution, <0.03% distortion and 0.3X-0.7X reference magnification

Ø32 mm Image Circle

7 μm Resolution

<0.03% Distortion

M42 / M72 / F-Mount

KEY FEATURES

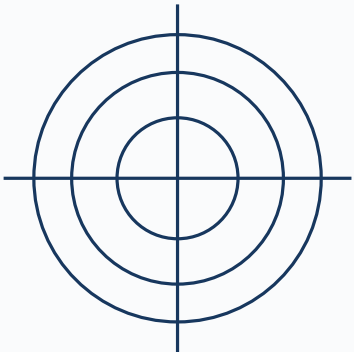
- High-resolution optical design with a maximum Ø32 mm image circle
- Compatible with 7 μm line-scan cameras
- High uniformity, <0.03% distortion and 7 μm optical resolution
- Close-range, higher-magnification configurations for small line fields

TECHNICAL PARAMETERS

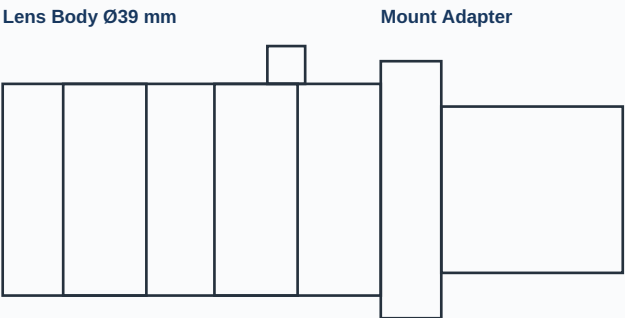
Parameter	0.30X	0.50X	0.70X
Model	PMS-LLA05-3528M	PMS-LLA05-3528M	PMS-LLA05-3528M
Maximum Image Circle	Ø32 mm	Ø32 mm	Ø32 mm
Resolution	7 μm	7 μm	7 μm
Aperture	F2.8-F16	F2.8-F16	F2.8-F16
Focal Length	35 mm	35 mm	35 mm
Distortion	<0.03%	<0.03%	<0.03%
Relative Illumination	65%	65%	65%
Working Distance	123 mm	84 mm	63 mm
Conjugate Distance	202 mm	169 mm	155 mm
Mount Options	M42 / M72 / F-Mount	M42 / M72 / F-Mount	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. Approximate object-side line field equals active sensor length divided by magnification.

MECHANICAL INTEGRATION REFERENCE



Front View

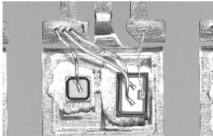


Reference optical length: 63.6 ± 5.0 mm

M42 configuration drawing; M72 and F-Mount options available

Exact flange dimensions should be confirmed before installation

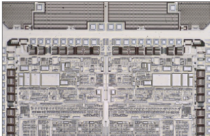
TYPICAL APPLICATIONS



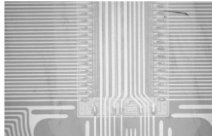
Defect Inspection



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 review lens-camera compatibility before quotation.