



LTCM02-110

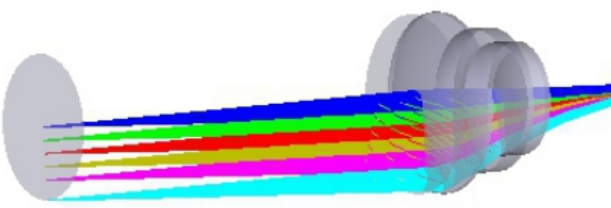
High Resolution Telecentric Lens

For Factory Automation and Machine Vision

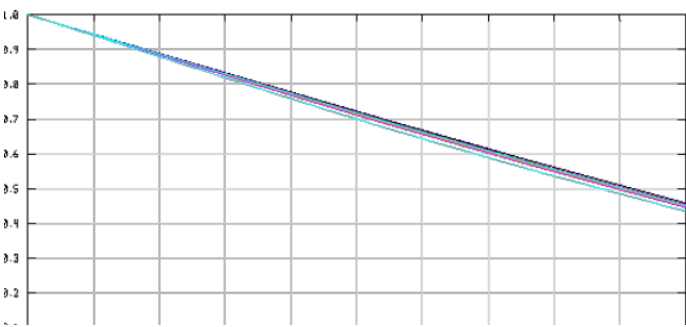
KEY FEATURES

- Supports high-definition cameras up to 3 megapixels.
- Optional coaxial illumination provides uniform lighting without image vignetting.
- Within the depth-of-field range, magnification and image size remain stable.
- Designed for precision inspection in automation and machine vision systems.

OPTICAL DESIGN AND MTF

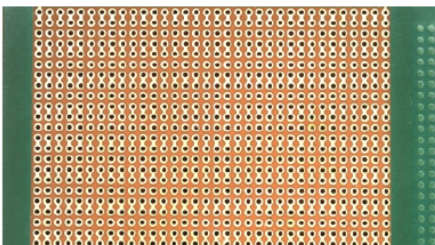


Optical Path

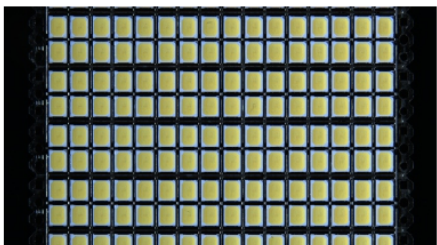


MTF Curve

TYPICAL INSPECTION APPLICATIONS



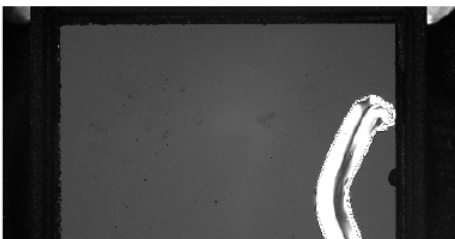
Precision Machining - Array Through Holes



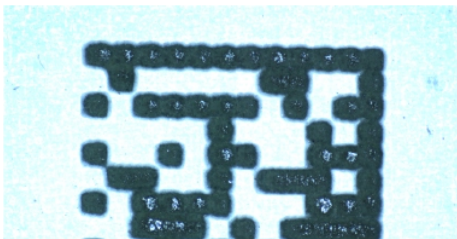
Semiconductor - LED



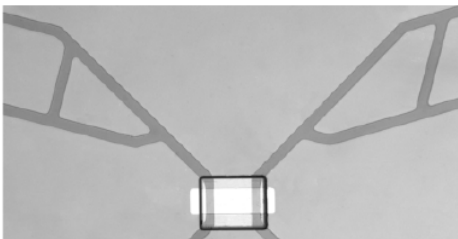
Food Processing - Certificate Inspection



3C Electronics - Camera Filter Damage



Packaging Printing - 2D Code



ITO Inspection

SPECIFICATIONS

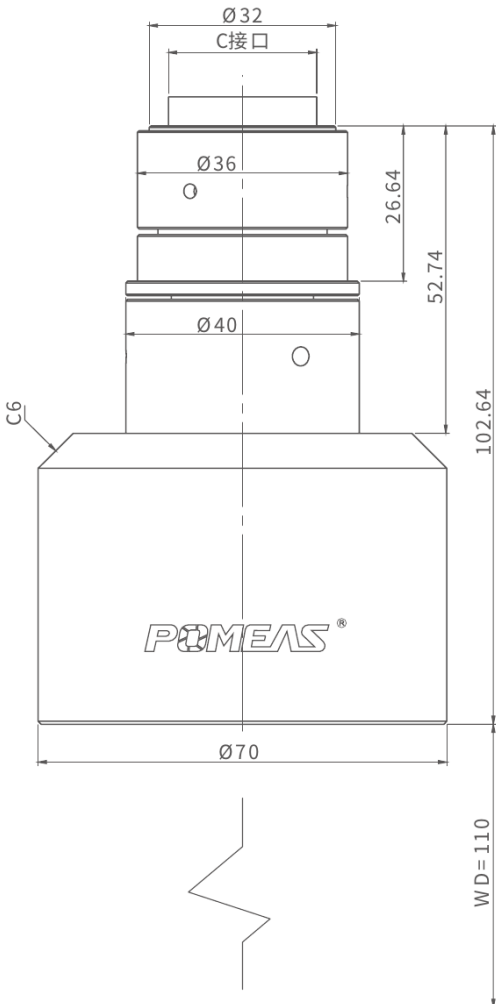
Model	LTCM02-110
Magnification	0.2X
Working Distance	110 mm
Resolution	16.78 μ m
Depth of Field*1	10 mm
N.A.	0.02
F.No.	4.99
TV Distortion	0.02%
Maximum Sensor Size	Up to 2/3 inch
Mount Type	C-Mount
Operating Temperature	-10 C to +50 C

Object Field of View (H x V)

1/4 inch	16.0 mm x 12.0 mm
1/3 inch	24.0 mm x 18.0 mm
1/2.5 inch	28.7 mm x 21.5 mm
1/2.3 inch	30.8 mm x 23.1 mm
1/2 inch	32.0 mm x 24.0 mm
1/1.8 inch	35.7 mm x 26.8 mm
2/3 inch	44.0 mm x 33.0 mm

*1 Theoretical value calculated with a 0.04 mm circle of confusion. Use approximately half of this range for best practical performance.

MECHANICAL DIMENSIONS



Unit: mm