LTC2-150

2.0x Standard Object-Side Telecentric Lens

Designed for precision positioning and measurement in mobile display alignment, PCB printing and factory automation applications.

- Supports cameras up to 2 MP
- Object-side telecentric optical design
- Low distortion, high telecentricity and extended depth of field
- Supports camera formats up to 1/2 inch
- Standard C-mount interface

Technical Specifications

Parameter	Value
Model	LTC2-150
Optical Magnification	2.0X
Working Distance	150±5 mm
Resolution	13.42 μm
F-number	40.1
TV Distortion	0.03%
Depth of Field*	0.80 mm
Numerical Aperture	0.025
Maximum Sensor Format	1/2 inch
Camera Mount	C-mount
Operating Temperature	-10°C to +50°C

* Theoretical value calculated using a 0.04 mm permissible circle of confusion. Approximately half the stated range is recommended for best practical results.

Object Field by Sensor Format

Sensor	Object Field
1/4 inch	1.6 × 1.2 mm
1/3 inch	2.4 × 1.8 mm
1/2.5 inch	2.9 × 2.2 mm
1/2.3 inch	3.1 × 2.3 mm
1/2 inch	3.2 × 2.4 mm

Mechanical Reference and Applications

MECHANICAL DESIGN

Product Details

Real structures from the supplied product image

C-Mount Interface

Standard camera connection

Stepped Mounting Flange

Rigid alignment structure

Black Anodized Barrel

Slim industrial housing

Ø28 mm flange • Ø16 mm barrel • 99.79 mm body length

Key mechanical dimensions shown in the source drawing include a 28 mm flange diameter, a 16 mm barrel diameter and a 99.79 mm body length. The optical working distance is 150 mm.

Typical inspection examples include HDMI connector wiring, LCD top connectors, fine-pitch display wiring, PCB inspection and precision positioning. External coaxial illumination can be selected according to the sample surface and inspection feature.