

LTC15-110

1.5X STANDARD OBJECT-SIDE TELECENTRIC LENS

Low distortion optics for precision positioning and dimensional measurement

Product Advantages

- Supports industrial cameras with a recommended resolution of 1 megapixel or below.
- Low distortion, high telecentricity and useful depth of field for precision positioning and measurement.
- Object-side telecentric optical design reduces perspective and magnification error.
- Compatible with camera sensors up to 2/3 inch.
- Standard C-Mount and coaxial illumination configuration.



MAX. SENSOR

2/3 inch

MAGNIFICATION

1.5X

WORKING DISTANCE

110 mm

RESOLUTION

12.43 μ m

MOUNT

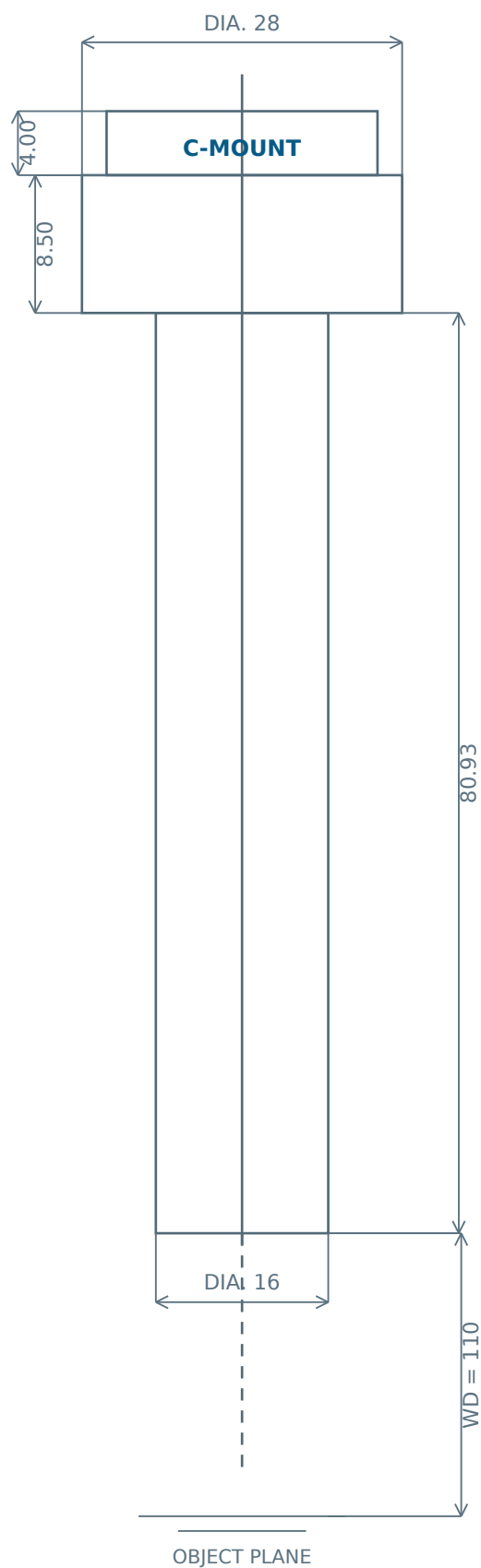
C-Mount

Technical Specifications

PARAMETER	SPECIFICATION
Model	LTC15-110
Optical Design	Object-side telecentric
Optical Magnification	1.5X fixed
Working Distance	110 mm
Resolution	12.43 μ m
F Number	27.8
TV Distortion	0.02%
Depth of Field*	0.99 mm
Numerical Aperture	0.027
Maximum Sensor Size	2/3 inch
Camera Mount	C-Mount
Illumination Method	Coaxial
Operating Temperature	-10°C to +50°C

* Theoretical calculation based on a circle of confusion of 0.04 mm. Best practical image quality is obtained within approximately half of the stated range.

LTC15-110 Dimensional Drawing Unit: mm | Drawing not to scale



Object Field of View

Fixed magnification: 1.5X

SENSOR FORMAT	FIELD OF VIEW (H x V)
1/4 inch	2.1 x 1.6 mm
1/3 inch	3.2 x 2.4 mm
1/2.5 inch	3.8 x 2.9 mm
1/2.3 inch	4.1 x 3.1 mm
1/2 inch	4.3 x 3.2 mm
1/1.8 inch	4.8 x 3.6 mm
2/3 inch	5.9 x 4.4 mm

Integration Notes

- Use a C-Mount industrial camera with a sensor not larger than 2/3 inch.
- Maintain the specified 110 mm working distance for best image quality.
- Complete system calibration after the lens, camera, lighting and fixture are installed.
- External camera, light source, controller and mounting hardware are not included unless quoted.

MODEL CONFIRMATION

Please provide:
sensor size, required field of view, target size,
working distance, resolution and lighting conditions.