

# DTCM111-48-AL

## C-mount Bi-telecentric Lens

- Optimized for 1/2.5"~1.1" C-Mount cameras;
- Largest FOV from 26mm upto 300mm;
- Excellent resolution for high pixel cameras;
- Low distortion, good telecentricity, big aperture and big depth of field for high end application.



Optical Specifications	
Magnification (x)	0.383
Object Field of View (Φmm)	48
Working Distance (mm)	128±3
Max Sensor Size (Φmm)	18.4(1.1")
Best Aperture (F/#)	7.2
Telecentricity typical (max) (deg)	<0.1
Distortion typical (max) (%)	<0.1
MTF30 (lp/mm)	>115
Depth of Field (mm)	±4.3@F16
Length of I/O (mm)	312±3

Field of View (mm × mm)	
1" IMX183 (13.13x8.76)	34.3x22.9
1.1" IMX253 (14.19x10.38)	37.0x27.1
Mechanical Specifications	
Mount	C
Length (mm)	166.7
Weight (kg)	0.6
Compatible Lighting	
Telecentric LED Lighting	DTCL-48-xW-y
	Beam Diameter 48mm

**Notes:**

1. Depth of Field is calculated value, this value could be used for imaging test, but to get sharp image in application, half of calculated value is suggested.
2. Length of I/O = WD + Length + Back Focal Length.

