

# DTCM111-90-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)	0.204
Object Field of View (Φmm)	90
Working Distance (mm)	208±3
Max Sensor Size (Φmm)	18.4(1.1")
Best Aperture (F/#)	6.2
Telecentricity typical (max) (deg)	<0.1
Distortion typical (max) (%)	<0.1
MTF30 (lp/mm)	>145
Depth of Field (mm)	±10.5@F11
Length of I/O (mm)	472±3

Field of View (mm × mm)	
1" IMX183 (13.13x8.76)	64.4x42.9
1.1" IMX253 (14.19x10.38)	69.6x50.9
Mechanical Specifications	
Mount	C
Length (mm)	246.7
Weight (kg)	1.8
Compatible Lighting	
Telecentric LED Lighting	DTCL-90-xW-y
	Beam Diameter 90mm

**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.

