

# DTCM110-170-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)	0.098
Object Field of View (Φmm)	170
Working Distance (mm)	318±5
Max Sensor Size (Φmm)	16.6(1")
Best Aperture (F/#)	6.5
Telecentricity typical (max) (deg)	<0.1
Distortion typical (max) (%)	<0.1
MTF30 (lp/mm)	>140
Depth of Field (mm)	±66.6@F16
Length of I/O (mm)	740±5

Field of View (mm × mm)	
1" PYTHON 5000(12.43x9.83)	126.8x100.3
1" IMX255(14.19x7.51)	144.8x76.6
1" IMX183(13.13x8.76)	134.0x89.4
Mechanical Specifications	
Mount	C
Length (mm)	404.3
Weight (kg)	6.6
Compatible Lighting	
Telecentric LED Lighting	DTCL-170-xW-y
	Beam Diameter 170mm

### 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.

