

# DTCM110-42

## 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)	0.395
Object Field of View (Φmm)	42
Working Distance (mm)	118±3
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)	>130
Depth of Field (mm)	±4.1 @F16
Length of I/O (mm)	278±3

Field of View (mm × mm)	
1" PYTHON 5000(12.43x9.83)	31.5x24.9
1" IMX255(14.19x7.51)	35.9x19.0
1" IMX183(13.13x8.76)	33.2x22.2
Mechanical Specifications	
Mount	C
Length (mm)	141.9
Weight (kg)	0.5

Compatible Lighting	
Telecentric LED Lighting	DTCL-42-xW-y
	Beam Diameter 42mm

### 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.

