

DTCM118-42

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)	0.214
Object Field of View (Φmm)	42
Working Distance (mm)	118±3
Max Sensor Size (Φmm)	9.0(1/1.8")
Best Aperture (F/#)	4.6
Telecentricity typical (max) (deg)	<0.1
Distortion typical (max) (%)	<0.1
MTF30 (lp/mm)	>195
Depth of Field (mm)	±9.6@F11
Length of I/O (mm)	249±3

Field of View (mm × mm)	
1/1.8" IMX178 (7.43x4.9)	34.7x22.9
1/1.8" IMX252/265 (7.1x5.3)	33.2x24.8
Mechanical Specifications	
Mount	C
Length (mm)	113.8
Weight (kg)	0.4
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.

