

DTCM175-42-AL

Large Format Bi-telecentric Lens

- Optimized for 4/3"~44mm M-mount or other mount cameras;
- FOV from 26mm upto 300mm;
- High resolution, low distortion and homogeneous image quality;
- Full test report for each units are provided;
- Customized mounts available.



Optical Specifications	
Magnification (x)	0.690
Object Field of View (Φmm)	42
Working Distance (mm)	118±3
Max Sensor Size (Φmm)	29(1.75")
Best Aperture (F/#)	11.4
Telecentricity typical (max) (deg)	<0.1
Distortion typical (max) (%)	<0.1
MTF30 (lp/mm)	>70
Depth of Field (mm)	±1.6@F20
Length of I/O (mm)	325±3

Field of View (mm × mm)	
1.75" CMV12000 (22.53x16.90)	32.7x24.5
1.75" PYTHON16k (18.43x18.43)	26.7x26.7
1.75" LineScan-4k (28.8mm)	41.7mm
Mechanical Specifications	
Mount	M58 or other
Length (mm)	194.8
Weight (kg)	0.9
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.

