

# DTCM175-56-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)	0.518
Object Field of View (Φmm)	56
Working Distance (mm)	138±3
Max Sensor Size (Φmm)	29(1.75")
Best Aperture (F/#)	9.7
Telecentricity typical (max) (deg)	<0.1
Distortion typical (max) (%)	<0.1
MTF30 (lp/mm)	>85
Depth of Field (mm)	±3.0@F20
Length of I/O (mm)	381±3

Field of View (mm × mm)	
1.75" CMV12000 (22.53x16.90)	43.5x32.6
1.75" PYTHON16k (18.43x18.43)	35.6x35.6
1.75" LineScan-4k (28.8mm)	55.6mm
Mechanical Specifications	
Mount	M58 or other
Length(mm)	230.8
Weight(kg)	1.2
Compatible Lighting	
Telecentric LED Lighting	DTCL-56-xW-y
	Beam Diameter 56mm

### 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.

