

# DTCM175-48-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)	0.604
Object Field of View (Φmm)	48
Working Distance (mm)	128±3
Max Sensor Size (Φmm)	29(1.75")
Best Aperture (F/#)	11.3
Telecentricity typical (max) (deg)	<0.1
Distortion typical (max) (%)	<0.1
MTF30 (lp/mm)	>70
Depth of Field (mm)	±2.2@F20
Length of I/O (mm)	348±3

Field of View (mm × mm)	
22.53x16.90 with CMV12000	37.3x28.0
18.43x18.43 with PYTHON16k	30.5x30.5
28.8mm with LineScan-2k/4k/8k	47.7mm
Mechanical Specifications	
Mount	M58 or other
Length(mm)	208.3
Weight(kg)	1.0
Compatible Lighting	
Telecentric LED Lighting	DTCL-48-xW-y
	Beam Diameter 48mm

### 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.

