

## 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 ( $\Phi$ mm)	48	
Working Distance (mm)	128±3	
Max Sensor Size (Фmm)	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)		
1.75" CMV12000 (22.53x16.90)		37.3x28.0
1.75" PYTHON16k (18.43x18.43)		30.5x30.5
1.75" LineScan-4k (28.8mm)		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.

