

# DTCM175-90-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)	0.322
Object Field of View (Φmm)	90
Working Distance (mm)	208±3
Max Sensor Size (Φmm)	29(1.75")
Best Aperture (F/#)	8.5
Telecentricity typical (max) (deg)	<0.1
Distortion typical (max) (%)	<0.1
MTF30 (lp/mm)	>100
Depth of Field (mm)	±6.1 @F16
Length of I/O (mm)	508±3

Field of View (mm × mm)	
1.75" CMV12000 (22.53x16.90)	70.0x52.5
1.75" PYTHON16k (18.43x18.43)	57.2x57.2
1.75" LineScan-4k (28.8mm)	89.4mm
Mechanical Specifications	
Mount	M58 or other
Length(mm)	288.3
Weight(kg)	2.2
Compatible Lighting	
Telecentric LED Lighting	DTCL-90-xW-y
	Beam Diameter 90mm

### 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.

