

DTCM175-42-M58-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.

