

# DTCM175-26-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)                  | 1.115     |
| Object Field of View (Φmm)         | 26        |
| Working Distance (mm)              | 73±1      |
| Max Sensor Size (Φmm)              | 29(1.75") |
| Best Aperture (F/#)                | 15.0      |
| Telecentricity typical (max) (deg) | <0.1      |
| Distortion typical (max) (%)       | <0.1      |
| MTF30 (lp/mm)                      | >50       |
| Depth of Field (mm)                | ±0.6@F20  |
| Length of I/O (mm)                 | 274±1     |

| Field of View (mm × mm)       |                    |
|-------------------------------|--------------------|
| 22.53x16.90 with CMV12000     | 20.2x15.2          |
| 18.43x18.43 with PYTHON16k    | 16.5x16.5          |
| 28.8mm with LineScan-2k/4k/8k | 25.8mm             |
| Mechanical Specifications     |                    |
| Mount                         | M58 or other       |
| Length (mm)                   | 189.2              |
| Weight (kg)                   | 0.8                |
| Compatible Lighting           |                    |
| Telecentric LED Lighting      | DTCL-26-xW-y       |
|                               | Beam Diameter 26mm |

### 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.

