

# DTCM430H-90-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)                  | 0.262      |
| Object Field of View (Φmm)         | 90         |
| Working Distance (mm)              | 208±3      |
| Max Sensor Size (Φmm)              | 23.6(4/3") |
| Best Aperture (F/#)                | 6.2        |
| Telecentricity typical (max) (deg) | <0.1       |
| Distortion typical (max) (%)       | <0.1       |
| MTF30 (lp/mm)                      | >144       |
| Depth of Field (mm)                | ±9.3@F16   |
| Length of I/O (mm)                 | 488±3      |

| Field of View (mm × mm)        |                    |
|--------------------------------|--------------------|
| 4/3" Keyence 21M (17.86x14.32) | 68.2x54.7          |
| 4/3" PYTHON 12K (18.43x13.82)  | 70.3x52.7          |
| 4/3" CMV8000 (18.48x13.73)     | 70.5x52.4          |
| Mechanical Specifications      |                    |
| Mount                          | M42/M58/F          |
| Length (mm)                    | 267.6              |
| 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.

