

# DTCM230-42

## C-mount Bi-telecentric Lens

- Optimized for 1/2.5"~1.1" C-Mount cameras;
- Largest FOV from 26mm upto 300mm;
- Excellent resolution for high pixel cameras;
- Low distortion, good telecentricity, big aperture and big depth of field for high end application.



| Optical Specifications             |            |
|------------------------------------|------------|
| Magnification (x)                  | 0.271      |
| Object Field of View (Φmm)         | 42         |
| Working Distance (mm)              | 118±3      |
| Max Sensor Size (Φmm)              | 11.4(2/3") |
| Best Aperture (F/#)                | 4.9        |
| Telecentricity typical (max) (deg) | <0.1       |
| Distortion typical (max) (%)       | <0.1       |
| MTF30 (lp/mm)                      | >185       |
| Depth of Field (mm)                | ±6.0@F11   |
| Length of I/O (mm)                 | 259±3      |

| Field of View (mm × mm)    |                    |
|----------------------------|--------------------|
| 1/1.8" EV76C570 (7.2x5.4)  | 26.6x19.9          |
| 1/1.7" IMX226 (7.5x5.6)    | 27.7x20.7          |
| 2/3" IMX250/264 (8.45x7.1) | 31.2x26.2          |
| Mechanical Specifications  |                    |
| Mount                      | C                  |
| Length (mm)                | 123.4              |
| Weight (kg)                | 0.4                |
| 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.

