

## DTCM110-100-AL

## 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)                  | 0.166     |
| Object Field of View (Фmm)         | 100       |
| Working Distance (mm)              | 258±4     |
| Max Sensor Size (Фmm)              | 16.6(1")  |
| Best Aperture (F/#)                | 6.5       |
| Telecentricity typical (max) (deg) | <0.1      |
| Distortion typical (max) (%)       | <0.1      |
| MTF30 (lp/mm)                      | >140      |
| Depth of Field (mm)                | ±23.2@F16 |
| Length of I/O (mm)                 | 534±4     |



| Field of View (mm × mm)    |           |  |
|----------------------------|-----------|--|
| 1" PYTHON 5000(12.43x9.83) | 74.9x59.2 |  |
| 1" IMX255(14.19x7.51)      | 85.5x45.2 |  |
| 1" IMX183(13.13x8.76)      | 79.1x52.8 |  |
| Mechanical Specifications  |           |  |
| Mount                      | С         |  |
| Length (mm)                | 258.8     |  |
| Weight (kg)                | 3.2       |  |

| Compatible Lighting      |                     |
|--------------------------|---------------------|
| Telecentric LED Lighting | DTCL-100-xW-y       |
|                          | Beam Diameter 100mm |

## 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.

