

DTCM118-80H-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) | 0.113 |
| Object Field of View (Φmm) | 80 |
| Working Distance (mm) | 228±4 |
| Max Sensor Size (Φmm) | 9.0(1/1.8") |
| Best Aperture (F/#) | 4.6 |
| Telecentricity typical (max) (deg) | <0.1 |
| Distortion typical (max) (%) | <0.1 |
| MTF30 (lp/mm) | >195 |
| Depth of Field (mm) | ±34.8@F11 |
| Length of I/O (mm) | 418±4 |

| Field of View (mm × mm) | |
|-----------------------------|---------------------|
| 1/1.8" IMX178 (7.43x4.9) | 65.8x43.4 |
| 1/1.8" IMX252/265 (7.1x5.3) | 62.8x46.9 |
| Mechanical Specifications | |
| Mount | C |
| Length (mm) | 172.4 |
| Weight (kg) | 1.9 |
| Compatible Lighting | |
| Telecentric LED Lighting | DTCL-80H-xW-y |
| | Beam Diameter 80Hmm |

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.

