

# DTCM35FH-120H-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)                  | 0.363         |
| Object Field of View (Φmm)         | 120           |
| Working Distance (mm)              | 273±5         |
| Max Sensor Size (Φmm)              | 44(35mm Full) |
| Best Aperture (F/#)                | 8.5           |
| Telecentricity typical (max) (deg) | <0.1          |
| Distortion typical (max) (%)       | <0.1          |
| MTF30 (lp/mm)                      | >105          |
| Depth of Field (mm)                | ±4.9@F16      |
| Length of I/O (mm)                 | 691±5         |

| Field of View (mm x mm)   |                     |
|---------------------------|---------------------|
| CMV50000 (36.43x27.62)    | 100.4x76.1          |
| KAI29050/2 (36.17x24.11)  | 99.6x66.4           |
| KAI43142 (36.18x24.12)    | 99.7x66.4           |
| Mechanical Specifications |                     |
| Mount                     | M58                 |
| Length (mm)               | 405.6               |
| Weight (kg)               | 5.0                 |
| Compatible Lighting       |                     |
| Telecentric LED Lighting  | DTCL-120H-xW-y      |
|                           | Beam Diameter 120mm |

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.

