

# VCM111B-170-AL

## C-mount Bi-telecentric Lens

- Superior bi-telecentric design, distinguished imaging quality;
- Largest FOV from 26mm upto 300mm;
- Optimized for 1/2.5"~1.1" C-Mount cameras;
- Low distortion, good telecentricity, big aperture and big depth of field for high end application.



| Optical Specifications             |             |
|------------------------------------|-------------|
| Magnification (x)                  | 0.108       |
| Object Field of View (Φmm)         | 170         |
| Working Distance (mm)              | 318±4       |
| Max Sensor Size (Φmm)              | 18.4 (1.1") |
| Best Aperture (F/#)                | 6.18        |
| Telecentricity typical (max) (deg) | <0.1        |
| Distortion typical (max) (%)       | <0.1        |
| MTF30 (lp/mm)                      | >137        |
| Depth of Field (mm)                | ±13         |
| Length of I/O (mm)                 | 766.7       |

| Field of View (mm × mm)   |                                     |
|---------------------------|-------------------------------------|
| 14.13x10.35 with IMX304   | 130.8x95.8                          |
| Mechanical Specifications |                                     |
| Mount                     | C                                   |
| Length (mm)               | 431.2                               |
| Compatible Lighting       |                                     |
| Telecentric LED Lighting  | VCL-170-xW-y<br>Beam Diameter 170mm |

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.

