

VCM110-42P-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) | 0.398 |
| Object Field of View (Φmm) | 42 |
| Working Distance (mm) | 118±2 |
| Max Sensor Size (Φmm) | 16.6(1") |
| Best Aperture (F/#) | 6.5 |
| Telecentricity typical (max) (deg) | <0.1 |
| Distortion typical (max) (%) | <0.1 |
| MTF30 (lp/mm) | >143 |
| Depth of Field (mm) | ±1 |
| Length of I/O (mm) | 275.4 |

| Field of View (mm × mm) | |
|---------------------------------|------------------------------------|
| 12.85×9.64 with KAI-04050 | 32.2×24.2 |
| 11.26×11.26 with CMV4000 | 28.2×28.2 |
| 12.50×10.00 with ICX674/694/814 | 31.4×25.1 |
| Mechanical Specifications | |
| Mount | C |
| Length (mm) | 139.9 |
| Weight (kg) | 0.47 |
| Compatible Lighting | |
| Telecentric LED Lighting | VCL-42P-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.

