

DTCA35F-94-AL

High Performance Industrial Lens

- DTCA series lenses are designed specially for compatibility with large sensor.
- Support newest developments in machine vision field: 24K line scan camera and 150Mp area scan camera.
- Extreme imaging aperture, extraordinary aberration correction, diffraction limited imaging resolution.
- Big aperture, good telecentricity, near zero distortion, big depth for high quality imaging.



| Optical Specifications | |
|------------------------------------|---------|
| Magnification (x) | 0.462 |
| Object Field of View (Φmm) | 94 |
| Working Distance (mm) | 378±4 |
| Max Sensor Size (Φmm) | 43.4 |
| Best Aperture (F/#) | 8.0 |
| Telecentricity typical (max) (deg) | <0.1 |
| Distortion typical (max) (%) | <0.1 |
| MTF30 (lp/mm) | >115 |
| Depth of Field (mm) | ±1.5@F8 |
| Length of I/O (mm) | 847±4 |

| Field of View (mm × mm) | |
|---------------------------|-----------|
| CMV50000(36.43x27.62) | 78.9x59.8 |
| KAI29050/2(36.17x24.11) | 78.3x52.2 |
| KAI43142(36.18x24.12) | 78.3x52.2 |
| Mechanical Specifications | |
| Mount | M58 |
| Length (mm) | 456.9 |
| Weight (kg) | 3.7 |
| Coaxial Light | No |
| Iris | No |

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.

