

DTCA185-81-G-M58-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) | 0.37 |
| Object Field of View (Φmm) | 81.1 |
| Working Distance (mm) | 250±3 |
| Max Sensor Size (Φmm) | 30(1.85") |
| Best Aperture (F/#) | 8.0 |
| Telecentricity typical (max) (deg) | <0.05 |
| Distortion typical (max) (%) | <0.08 |
| MTF30 (lp/mm) | >114 |
| Depth of Field (mm) | ±2.35@F8 |
| Length of I/O (mm) | 462±3 |

| Field of View (mm × mm) | |
|--------------------------|-----------|
| 1.75" IMX342 (22.3X16.7) | 60.3x45.1 |

| Mechanical Specifications | |
|---------------------------|-----|
| Mount | M58 |
| Length(mm) | 200 |
| Weight(kg) | 2.4 |
| Coaxial Light | No |
| Iris | Yes |

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.

