

DTCA230-27.5C

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) | 0.4 |
| Object Field of View (Φmm) | 27.5 |
| Working Distance (mm) | 85±2 |
| Max Sensor Size (Φmm) | 11.0(2/3") |
| Best Aperture (F/#) | 4.5 |
| Telecentricity typical (max) (deg) | <0.1 |
| Distortion typical (max) (%) | <0.03 |
| MTF30 (lp/mm) | >205 |
| Depth of Field (mm) | ±1.1@F4.5 |
| Length of I/O (mm) | 245±2 |

| Field of View (mm × mm) | |
|----------------------------|-----------|
| 1/1.8" EV76C570 (7.2x5.4) | 18.0x13.5 |
| 1/1.7" IMX226 (7.5x5.6) | 18.8x14.0 |
| 2/3" IMX250/264 (8.45x7.1) | 21.1x17.8 |
| Mechanical Specifications | |
| Mount | C |
| Length(mm) | 142.4 |
| Weight(kg) | 0.3 |
| Coaxial Light | Yes |
| 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.

