

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.

