

# DTCA110-215-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)	0.075
Object Field of View (Φmm)	215
Working Distance (mm)	220±3
Max Sensor Size (Φmm)	16(1")
Best Aperture (F/#)	4.35
Telecentricity typical (max) (deg)	<0.1
Distortion typical (max) (%)	<0.05
MTF30 (lp/mm)	>195
Depth of Field (mm)	±30.9@F4.35
Length of I/O (mm)	560±2

Field of View (mm × mm)	
1" PYTHON 5000(12.43x9.83)	165.7x131.1
1" IMX255(14.19x7.51)	189.2x100.1
1" IMX183(13.13x8.76)	175.1x116.8
Mechanical Specifications	
Mount	C
Length(mm)	322.2
Weight(kg)	8.45
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.

