

# DTCA175-28.2C-128-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)	1.0
Object Field of View (Φmm)	28.2
Working Distance (mm)	128±2
Max Sensor Size (Φmm)	28.2(1.75")
Best Aperture (F/#)	11
Telecentricity typical (max) (deg)	<0.09
Distortion typical (max) (%)	<0.01
MTF30 (lp/mm)	>76
Depth of Field (mm)	±0.45@F8
Length of I/O (mm)	457.9±2

Field of View (mm × mm)	
1.75" IMX342 (22.3X16.7)	22.3x16.7

Mechanical Specifications	
Mount	M58
Length(mm)	317.9
Weight(kg)	1.0
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.

