

# DTCA138-56-G-M42-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)	0.3
Object Field of View (Φmm)	56.0
Working Distance (mm)	250±3
Max Sensor Size (Φmm)	13.8
Best Aperture (F/#)	22
Telecentricity typical (max) (deg)	<0.1
Distortion typical (max) (%)	<0.063
MTF30 (lp/mm)	180-46
Depth of Field (mm)	6.2-28.2
Length of I/O (mm)	450±3

Field of View (mm × mm)	
CCD (Φ13.8mm)	Φ55.2
Mechanical Specifications	
Mount	M58
Length (mm)	188.2
Weight (kg)	0.97
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.

