

DTCA175-61.4C-G-M42-AL

High Performance AOI Telecentric Lens

DTCA Series Features:

- DTCA 35F series lenses are designed specially for compatibility with large sensor.
- Support newest developments in machine vision field: 35Full(44mm) camera and 65Mp , 71Mp camera.
- Extreme imaging aperture, extraordinary aberration correction, diffraction limited imaging resolution.
- Adjustable aperture, good telecentricity, near zero distortion, for high quality imaging.



Optical Specifications	
Magnification (x)	0.46
Object Field of View (Φmm)	61.4
Working Distance (mm)	250
Max Sensor Size (Φmm)	28.2(1.75")
Best Aperture (F/#)	8
Telecentricity typical (max) (deg)	0.1
Distortion typical (max) (%)	0.006
MTF30 (lp/mm)	110
Depth of Field (mm)	3.0
N.A	0.0288
Object side resolution (μm)	11.6
Length of I/O (mm)	452±2

Field of View (mm × mm)	
1.75" IMX342 (22.3x16.7)	48.5x36.3

Mechanical Specifications	
Mount	M42
Length (mm)	190.1
Weight (kg)	1.3
Coaxial Light	Yes
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.

