COOLENS®

DTCA175-51G-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)	0.55
Object Field of View (Φmm)	51.0
Working Distance (mm)	220±3
Max Sensor Size (Φmm)	28.2(1.75")
Best Aperture (F/#)	8-32
Telecentricity typical (max) (deg)	0.09
Distortion typical (max) (%)	0.05
MTF30 (lp/mm)	＞106
Depth of Field (mm)	±1.05@F8
Length of I/O (mm)	430

Field of View (mm × mm)	
22.53x16.90 with CMV12000	40.96x30.73
18.43x18.43 with PYTHON16k	33.51x33.51
28.8mm with LineScan-2k/4k/8k	52.36

Mechanical Specifications	
Mount	M58
Length(mm)	192.7
Weight(kg)	1.1
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.