

# DTCA24K-44-M95-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)	2.0
Object Field of View (Φmm)	44
Working Distance (mm)	118±3
Max Sensor Size (Φmm)	88
Best Aperture (F/#)	4.8
Telecentricity typical (max) (deg)	0.1
Distortion typical (max) (%)	0.045
MTF30 (lp/mm)	62
Depth of Field (mm)	±0.3@F4.8
Length of I/O (mm)	593

Field of View (mm × mm)	
64.32x48.38 with DALSA 86M	32.2x24.2
81.9mm with Linescan-16K 5μm	40.9mm
86.0mm with Linescan-24K 3.5μm	43.0mm
Mechanical Specifications	
Mount	M95
Length (mm)	463.0
Weight (kg)	-
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.

