

# DTCA24K-79-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)                  | 1.11      |
| Object Field of View (Φmm)         | 79.2      |
| Working Distance (mm)              | 150±3     |
| Max Sensor Size (Φmm)              | 88        |
| Best Aperture (F/#)                | 7.0       |
| Telecentricity typical (max) (deg) | <0.1      |
| Distortion typical (max) (%)       | <0.2      |
| MTF30 (lp/mm)                      | >100      |
| Depth of Field (mm)                | ±0.2@F7.0 |
| Length of I/O (mm)                 | 641±3     |

| Field of View (mm × mm)     |           |
|-----------------------------|-----------|
| DALSA 86M (64.32x48.38)     | 57.9x43.6 |
| Linescan-16K 5μm (81.9mm)   | 73.8      |
| Linescan-24K 3.5μm (86.0mm) | 77.5      |
| Mechanical Specifications   |           |
| Mount                       | M95       |
| Length (mm)                 | 478.8     |
| 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.

