COOLENS®

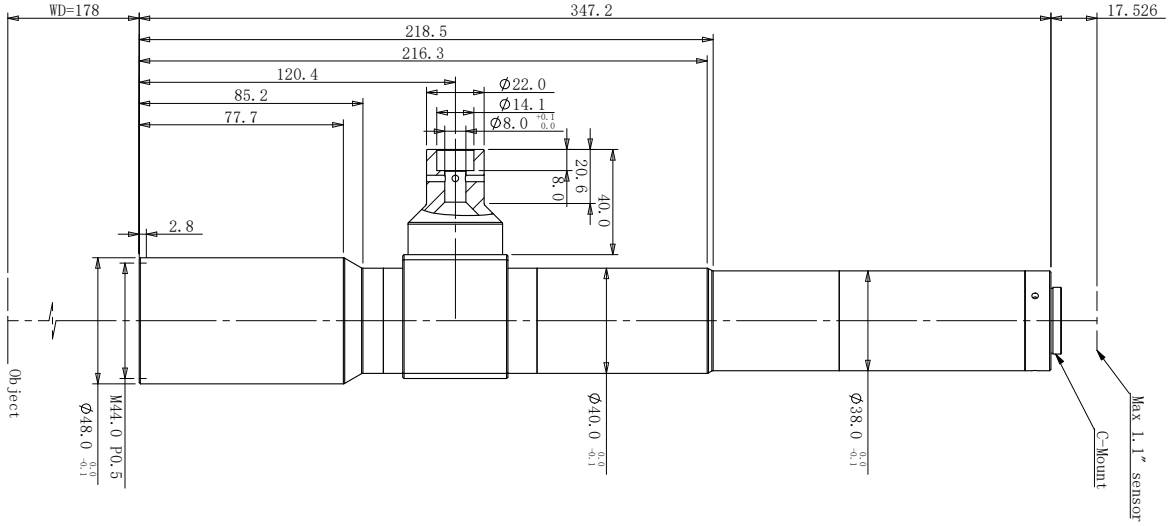
WWK40-178C-111V3

Large FOV Objective Telecentric Lens

- Object side telecentric lens, support 5Mp-20Mp area scan camera.
- High definition, low distortion, good telecentricity, especially suitable for high-precision AOI and positioning applications.
- Built-in coaxial lighting, especially suitable for inspection of wafers, glass devices.
- Quickly customization apply to different camera specifications, as well as magnification, working distance, DOF requirements.

Optical Specifications	
Magnification (x)	4.0
Working Distance (mm)	178±2
Max Sensor Size (Φmm)	18.0(1.1")
Best Aperture (F/#)	22.2
Telecentricity typical (max) (deg)	<0.08
Distortion typical (max) (%)	<0.08
MTF30 (lp/mm)	>38
Resolution (μm)	>38
Depth of Field (mm)	±0.06@F22.2

Field of View (mm × mm)	
1" IMX183 (13.13x8.76)	3.3x2.2
1.1" IMX253 (14.19x10.38)	3.5x2.6
Mechanical Specifications	
Mount	C
Length (mm)	347.2
Coaxial Light	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.