

# WWK20-110C-111

## 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)	2.0
Working Distance (mm)	110±2
Max Sensor Size (Φmm)	18.0(1.1")
Best Aperture (F/#)	13.5
Telecentricity typical (max) (deg)	<0.1
Distortion typical (max) (%)	<0.1
MTF30 (lp/mm)	>60
NA	0.0737
Resolution (μm)	4.6
Depth of Field (mm)	±0.2@F20
Length of I/O (mm)	261±2

Field of View (mm × mm)	
1" IMX183 (13.13x8.76)	6.6x4.4
1.1" IMX253 (14.19x10.38)	7.1x5.2
Mechanical Specifications	
Mount	C
Length (mm)	133.2
Weight (kg)	-
Coaxial Light	Yes
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.

