COOLENS®

WWK05-220C-110

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)	0.5
Working Distance (mm)	220±3
Max Sensor Size (Φmm)	16.0(1")
Best Aperture (F/#)	8
Telecentricity typical (max) (deg)	<0.1
Distortion typical (max) (%)	<0.1
MTF30 (lp/mm)	>110
NA	0.031
Resolution (μm)	10.8
Depth of Field (mm)	±1.3@F8
Length of I/O (mm)	443±3

Field of View (mm × mm)	
1" PYTHON 5000(12.43x9.83)	24.9x19.7
1" IMX255(14.19x7.51)	28.4x15.0
1" IMX183(13.13x8.76)	26.3x17.5
Mechanical Specifications	
Mount	C
Length (mm)	205.7
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.