COOLENS®

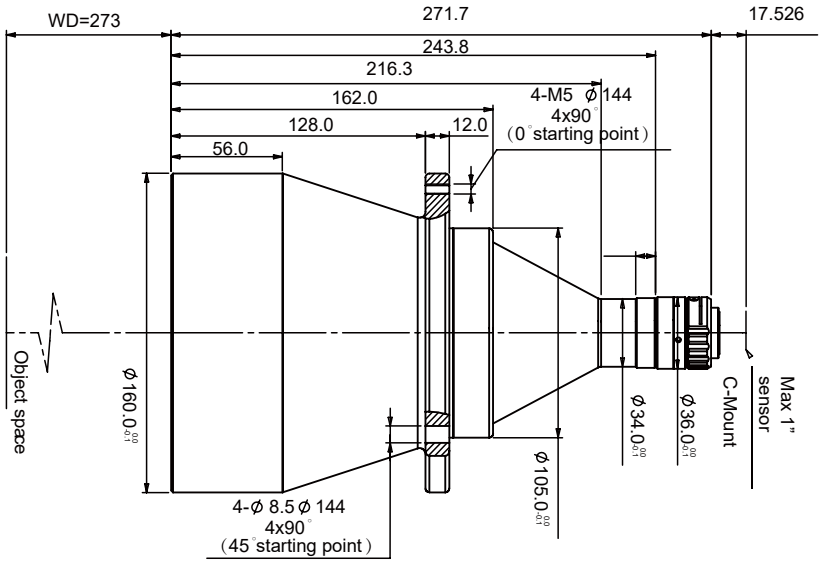
DTCM118-120H-AL

C-mount Bi-telecentric Lens

- Optimized for 1/2.5"~1.1" C-Mount cameras;
- Largest FOV from 26mm upto 300mm;
- Excellent resolution for high pixel cameras;
- Low distortion, good telecentricity, big aperture and big depth of field for high end application.

Optical Specifications	
Magnification (x)	0.075
Object Field of View (Φmm)	120
Working Distance (mm)	273±5
Max Sensor Size (Φmm)	9.0(1/1.8")
Best Aperture (F/#)	4.6
Telecentricity typical (max) (deg)	<0.1
Distortion typical (max) (%)	<0.1
MTF30 (lp/mm)	>200
Depth of Field (mm)	±78.2@F11
Length of I/O (mm)	562±5

Field of View (mm × mm)	
1/1.8" IMX178 (7.43x4.9)	99.1x65.3
1/1.8" IMX252/265 (7.1x5.3)	94.7x70.7
Mechanical Specifications	
Mount	C
Length (mm)	271.7
Weight (kg)	4.2
Compatible Lighting	
Telecentric LED Lighting	DTCL-120-xW-y
	Beam Diameter 120mm

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.