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Optical Specification

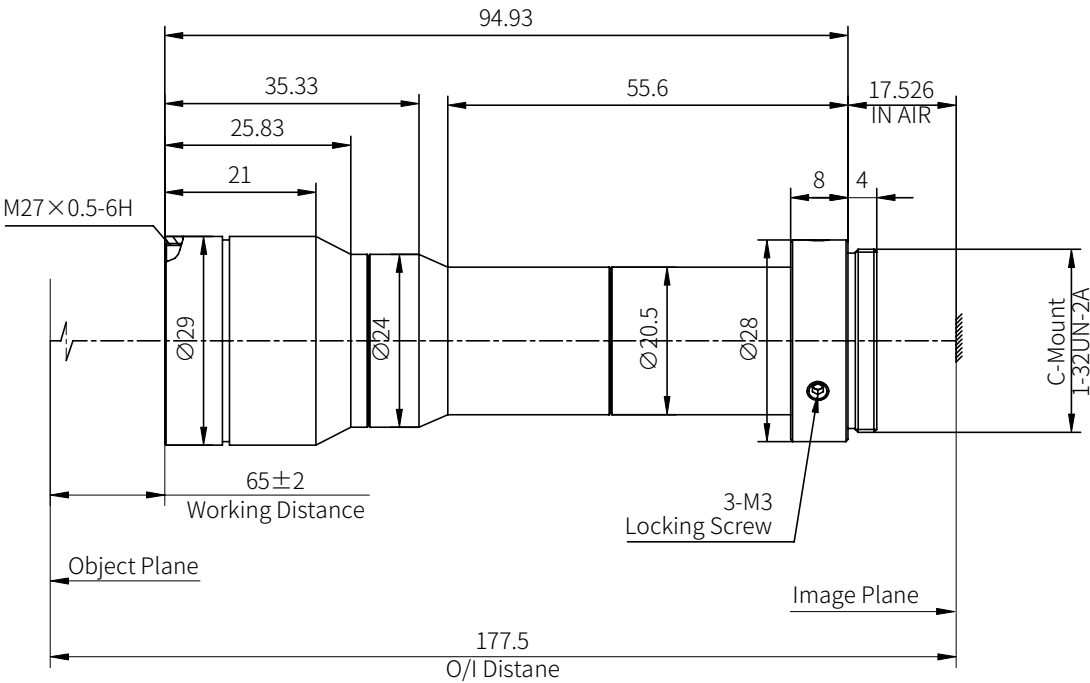
Model	OPT-CH10-65-F45
Optical Configuration	Telecentric
Working Distance (mm)	65±2
Magnification	1.0X
Sensor Ø(mm)	11.0(2/3")
Aperture	F45
Telecentricity	0.10°
NA	0.01109
Distortion	<0.1%
Depth of Field (mm)	3.72
Object Resolution (μm)	30.25
Resolution (μm)	21.70
Image MTF30(lp/mm)	23
Field of View Ø(mm)	11.00
O/I Distance (mm)	177.5
Mount	C-Mount
Weight (kg)	0.10
Size (mm)	Ø29.0×94.93
Filter Thread (mm)	M27×0.5-6H
Working temperature	-20°C~+60°C

- [1]Resolution:The resolution is the image resolution.
[2]WD:The distance between the front end of the mechanism and the object.
[3]DOF evaluation formula for telecentric lenses:

DOF(mm)= $\frac{F\# \times P \times k}{\beta \times \beta}$

F#:The real F-number of a lens when used
P:Sensor pixel size(5.5 μm used here)
β:Lens magnification
k:The parameter based on application (measurement,
k=0.015;defect detection, k=0.008;0.015 used here)

At the borders of DOF,the image can still be used for measurement. But only half of the nominal DOF should be used to get a sharp image.



View Angle		Item	Signature	Date	OPT Machine Vision Tech Co., Ltd.				
		Drawing							
Standard Difference	IT14	Design			All Rights Reserved				
		Check							
Drawing Code		Scale			Name	OPT-CH10-65-F45			
		Paper Size	A4		Unit	mm	Page	1 / 1	Version 1.0

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