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Optical Specification

Model	OPT-CH08-110-F16
Optical Configuration	Bi-Telecentric
Working Distance (mm)	110±2
Magnification	0.8X
Sensor Ø(mm)	11.0(2/3")
Aperture	F16
Telecentricity	0.10°
NA	0.02499
Distortion	<0.1%
Depth of Field (mm)	2.06
Object Resolution (μm)	13.43
Resolution (μm)	8.3
Image MTF30(lp/mm)	60
Field of View Ø(mm)	13.75
O/I Distance (mm)	234.9
Mount	C-Mount
Weight (kg)	0.19
Size (mm)	Ø36.0×107.4
Filter Thread (mm)	M34×0.5-6H
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:

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

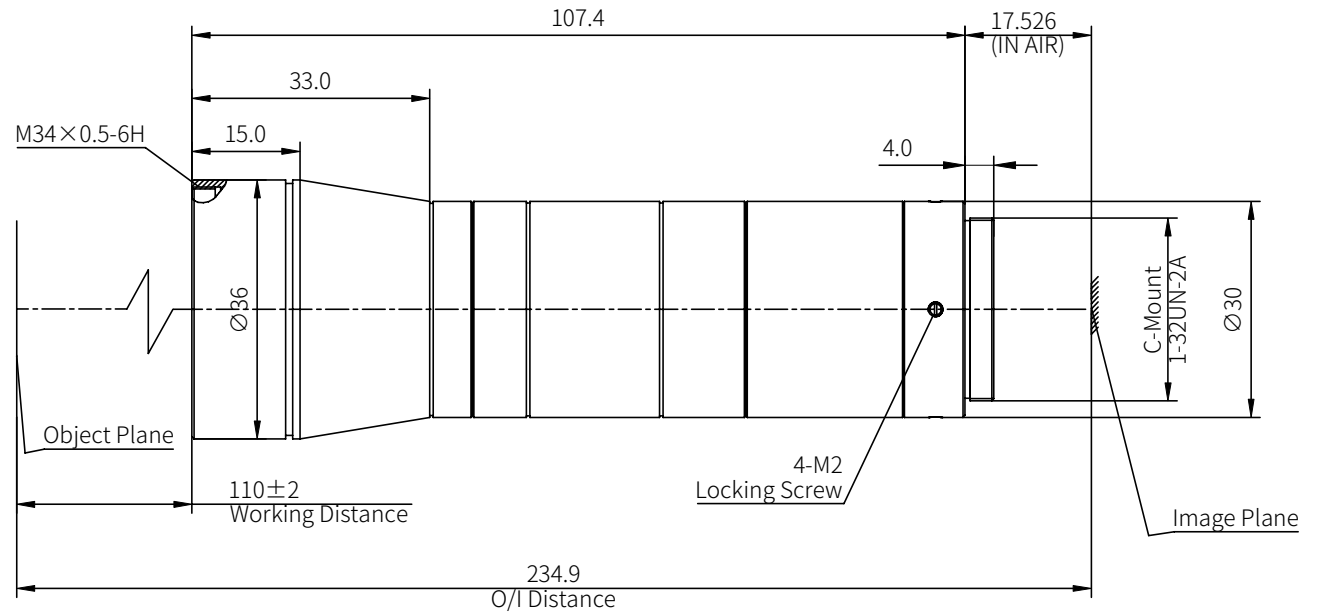
F#:The real F-number of a lens when used

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.



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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-CH08-110-F16				
		Paper Size	A4		Unit	mm	Page	1 / 1		Version

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