

Optical Specification	
Model	OPT-CH08-65-F16
Optical Configuration	Telecentric
Working Distance (mm)	65±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)	8.30
Image MTF30(lp/mm)	60
Field of View Ø(mm)	13.75
O/I Distance (mm)	191.6
Mount	C-Mount
Weight (kg)	0.11
Size (mm)	Ø29.0×109.06
Filter Thread (mm)	M27×0.5-6H
Working temperature	-20℃～+60℃

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- [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:

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

F#:The real F-number of a lens when used
P:Sensor pixel size(5.5 μm used here)

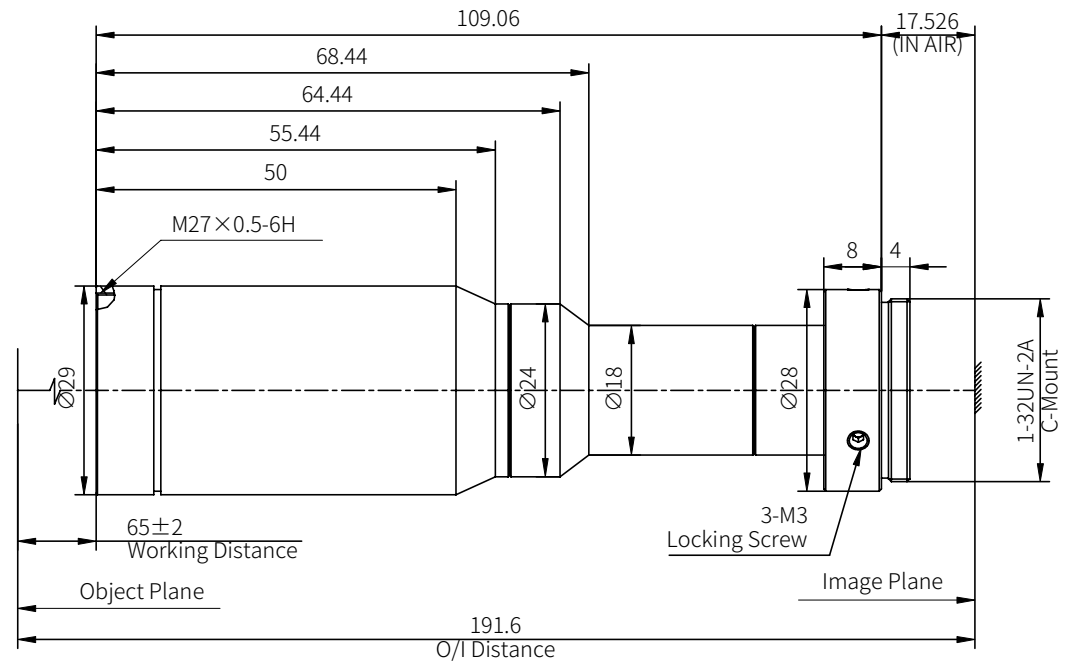
P:Sensor pixel size(5.5 μm used here)

 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[®] OPT Machine Vision Tech Co., Ltd. Machine Vision				
		Drawing							
Standard Difference	IT14	Design			All Rights Reserved				
		Check							
Drawing Code		Scale			Name	OPT-CH08-65-F16			
		Paper Size	A4		Unit	mm	Page 1 / 1		Version