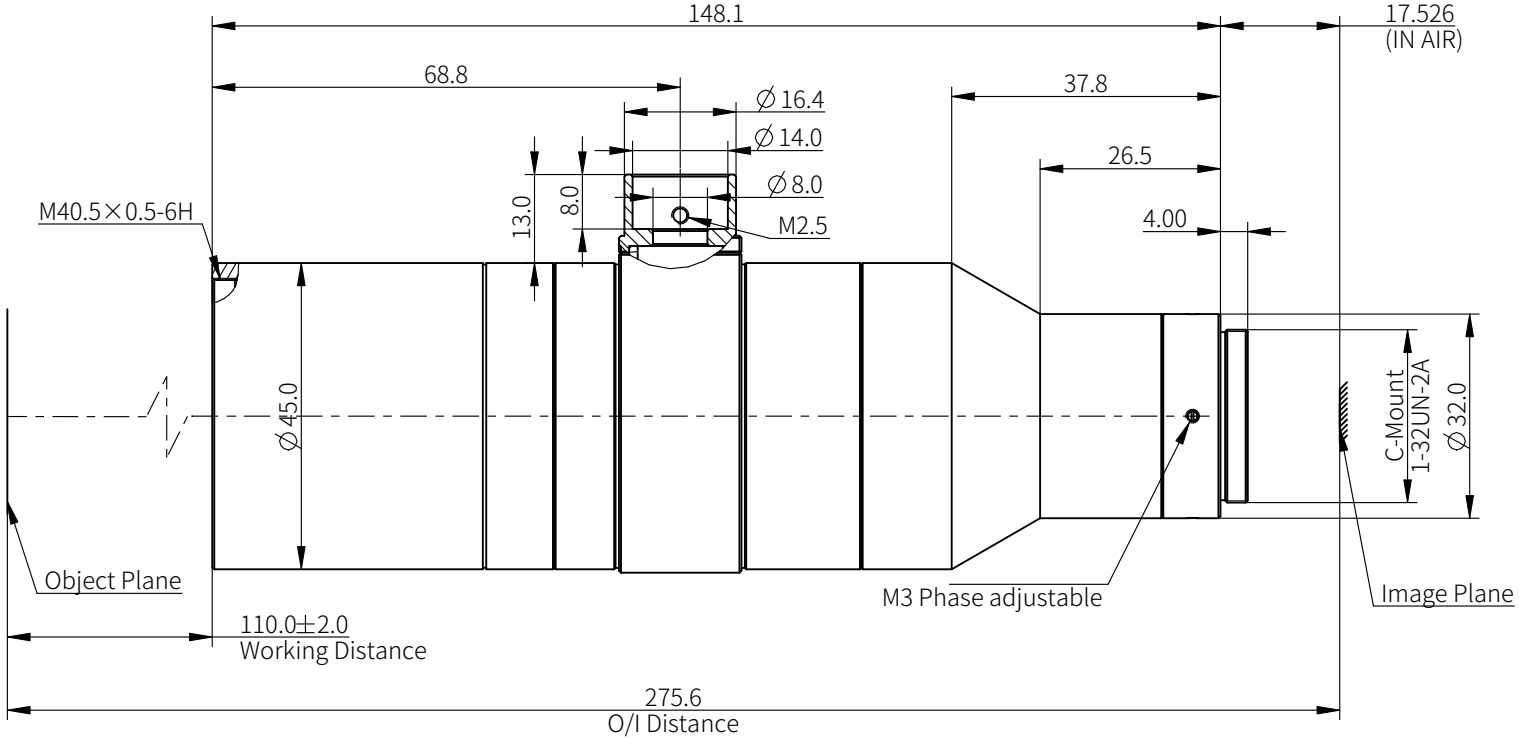
Optical Specification

Model	OPT-HP15-110C-F16
Optical Configuration	Telecentric
Working Distance (mm)	110±2
Magnification	1.5X
Sensor∅ (mm)	18.4(1.1")
Aperture	F16
Telecentricity	0.10°
NA	0.04688
Distortion	<0.2%
Depth of Field (mm)	0.59
Resolution (μm)	8.3
Image MTF30 (lp/mm)	60
Field of View∅ (mm)	12.27
O/I Distance (mm)	275.6
Mount	C-Mount
Weight (kg)	0.49
Size (mm)	∅ 45×148.1
Filter Thread (mm)	M40.5×0.5-6H
Working Temperature	-20°C～+60°C



[1]Resolution:The resolution is the image resolution.
[2]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	OPT Machine Vision Tech Co., Ltd.		
		Drawing						
Standard Difference	IT14	Design			All Rights Reserved			
		Check						
Drawing Code		Scale	9:10		Name	OPT-HP15-110C-F16		
		Paper Size	A4		Unit	mm	Page 1 / 1	Version V1.0

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