

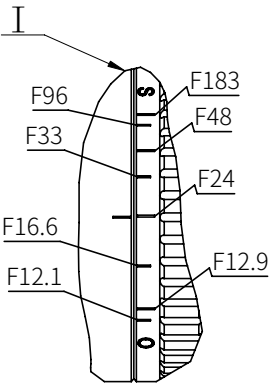
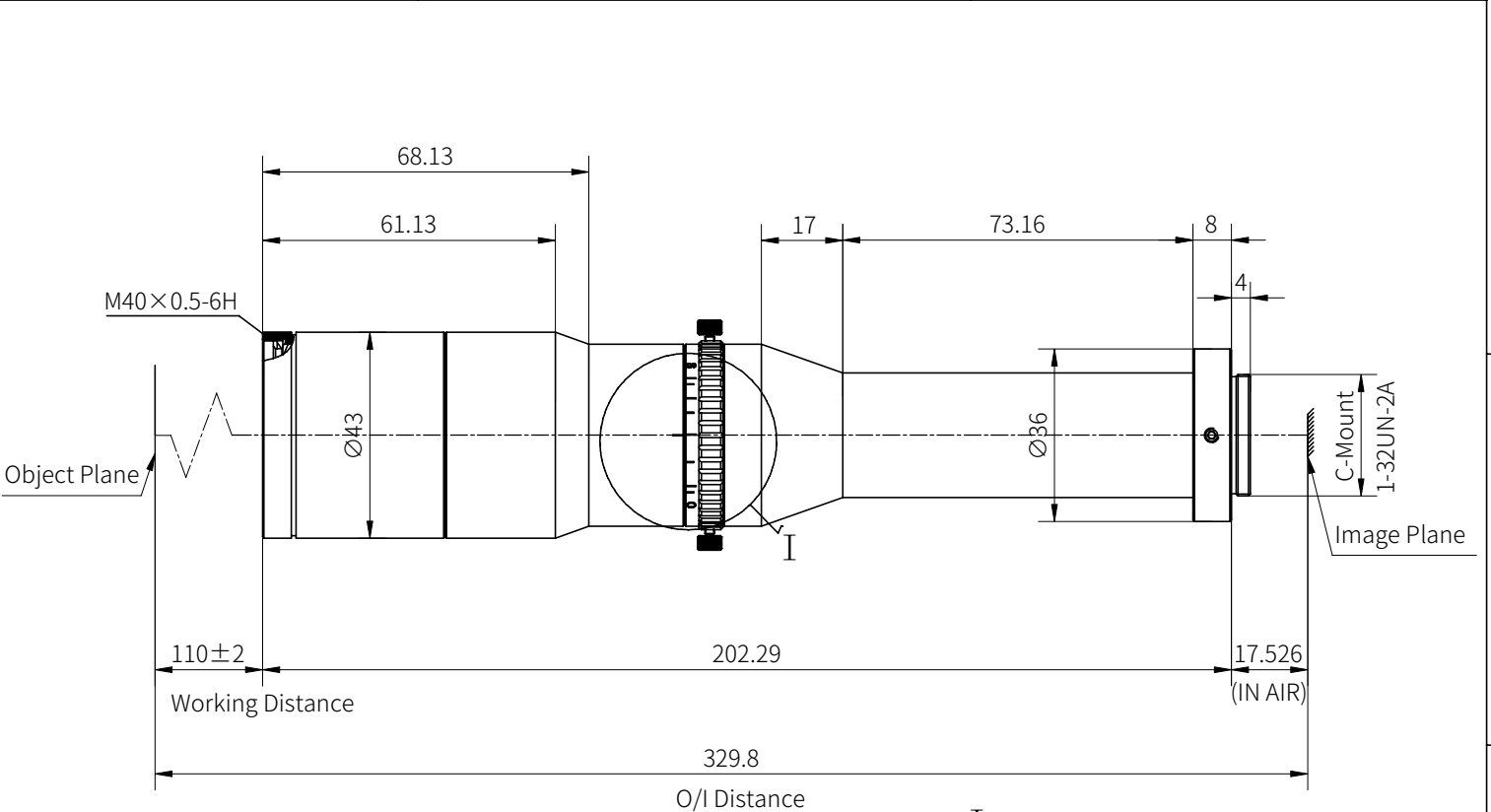
Optical Specification	
Model	OPT-HP30-110-VI
Optical Configuration	Telecentric
Working Distance (mm)	110±2
Magnification	3.0X
Sensor Ø(mm)	18.4(1.1")
Aperture	F12.1~F183
Telecentricity	0.1°
NA	0.12397~0.00819
Distortion	<0.1%
Depth of Field (mm)	0.11~1.68
Object Resolution (μm)	2.71~40.96
Resolution (μm)	6.25~100
Image MTF30(lp/mm)	80~5
Field of View Ø(mm)	6.13
O/I Distance (mm)	329.8
Mount	C-Mount
Weight (kg)	0.44
Size (mm)	Ø43×202.29
Filter Thread (mm)	M40×0.5-6H
Working temperature	-20℃~+60℃

- [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-HP30-110-VI		
		Paper Size	A4		Unit	mm	Page 1 / 1	Version 1.0