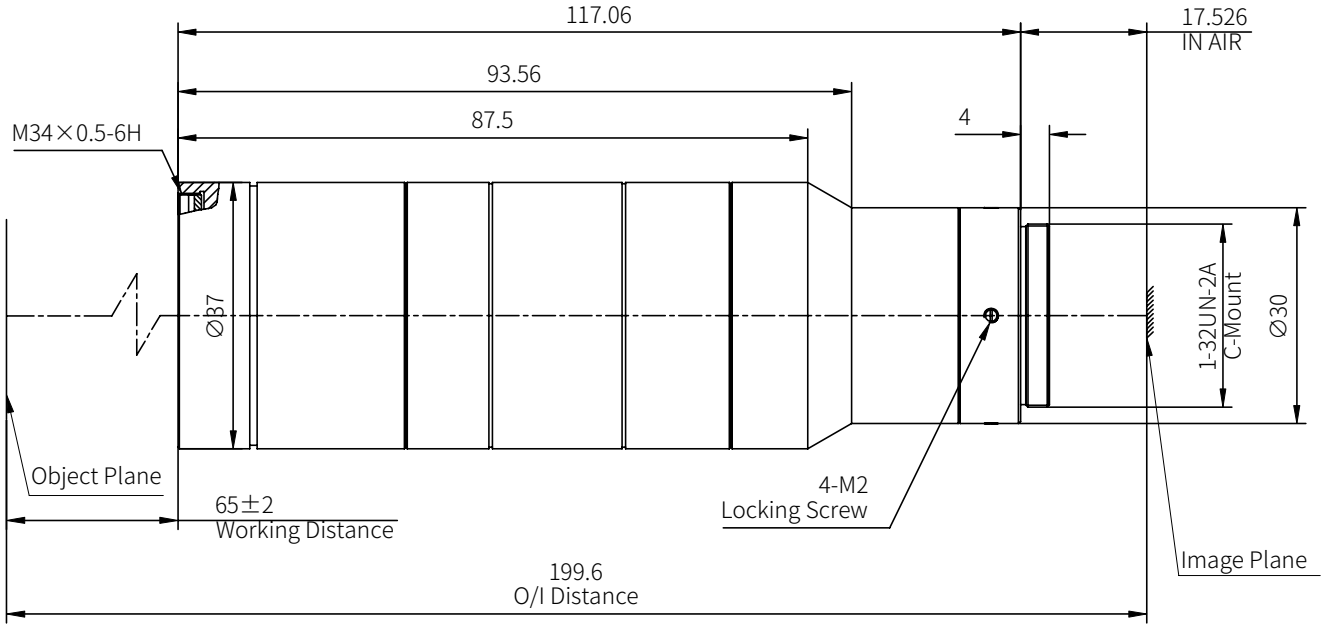
Optical Specification

Model	OPT-CH20-65-F45
Optical Configuration	Telecentric
Working Distance (mm)	65±2
Magnification	2.0X
Sensor Ø(mm)	11.0(2/3")
Aperture	F45
Telecentricity	0.10°
NA	0.02217
Distortion	<0.1%
Depth of Field (mm)	0.94
Object Resolution (μm)	15.13
Resolution (μm)	21.70
Image MTF30(lp/mm)	23
Field of View Ø(mm)	5.50
O/I Distance (mm)	199.6
Mount	C-Mount
Weight (kg)	0.28
Size (mm)	Ø37.0×117.1
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:

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

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			Name	OPT-CH20-65-F45		
		Paper Size	A4		Unit	mm	Page 1 / 1	Version 1.0