

Optical Specification	
Model	OPT-CH20-110-F13
Optical Configuration	Bi-Telecentric
Working Distance (mm)	110±2
Magnification	2.0X
Sensor Ø (mm)	11.0(2/3")
Aperture	F13
Telecentricity	0.10°
NA	0.07666
Distortion	<0.1%
Depth of Field (mm)	0.27
Object Resolution (μm)	4.38
Resolution (μm)	6.7
Image MTF30(lp/mm)	75
Field of View Ø (mm)	5.50
O/I Distance (mm)	257.1
Mount	C-Mount
Weight (kg)	0.14
Size (mm)	Ø29.0×129.58
Filter Thread (mm)	M27×0.5-6H
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

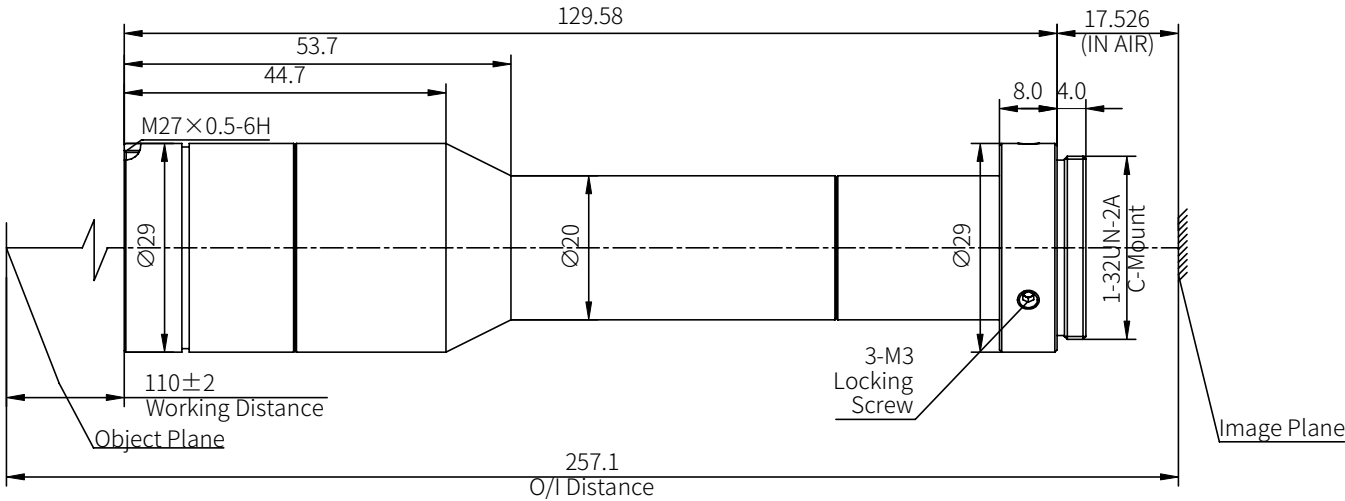
P:Sensor pixel size(5.5 μm used here)

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-CH20-110-F13		
		Paper Size	A4		Unit	mm	Page 1 / 1	Version 1.0