

Optical Specification	
Model	OPT-CH10-110FC-F6.5
Optical Configuration	Telecentric
Working Distance (mm)	110±2
Magnification	1.0X
Sensor Ø (mm)	11.0(2/3")
Aperture	F6.5
Telecentricity	0.10°
NA	0.07644
Distortion	<0.1%
Depth of Field (mm)	0.54
Resolution (μm)	3.45
Image MTF30 (lp/mm)	145
Field of View Ø (mm)	11.00
O/I Distance (mm)	237.4
Mount	C-Mount
Weight (kg)	0.25
Size (mm)	Ø 36×109.9
Filter Thread (mm)	M34×0.5-6H
Working Temperature	0°C~+40°C

[1]Resolution:The resolution is the image resolution.

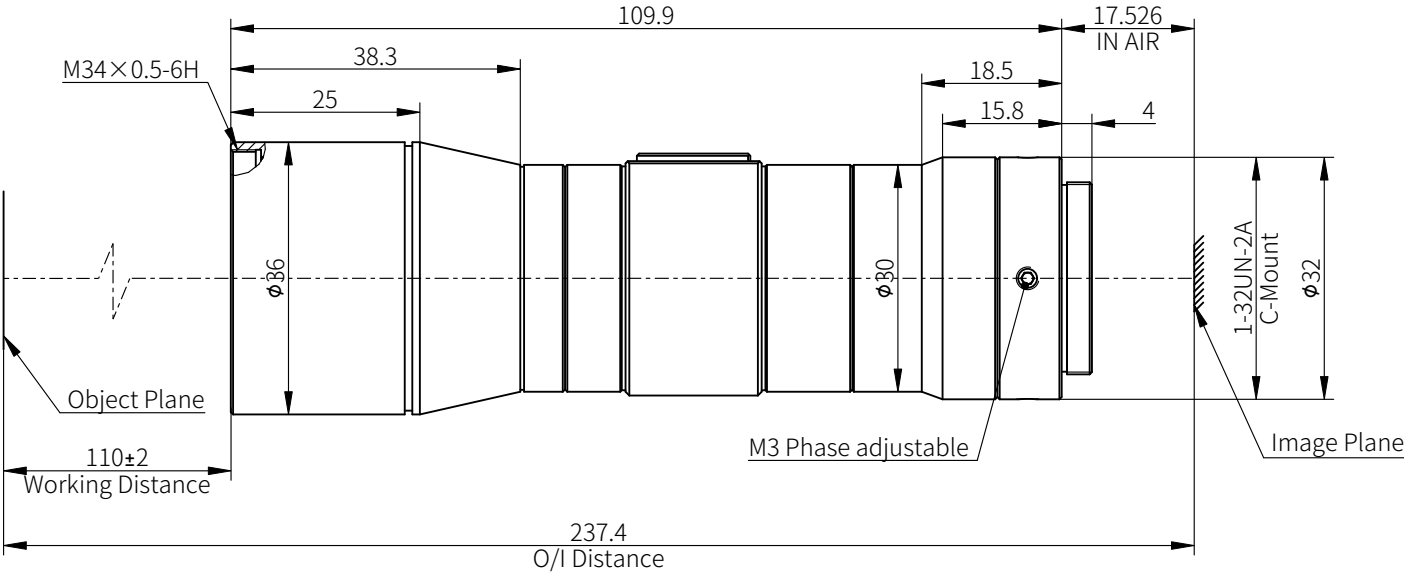
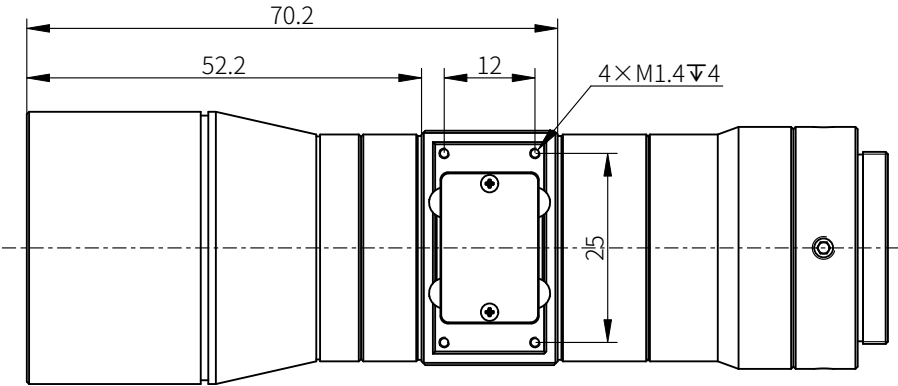
[2]DOF evaluation formula for telecentric lenses:

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.

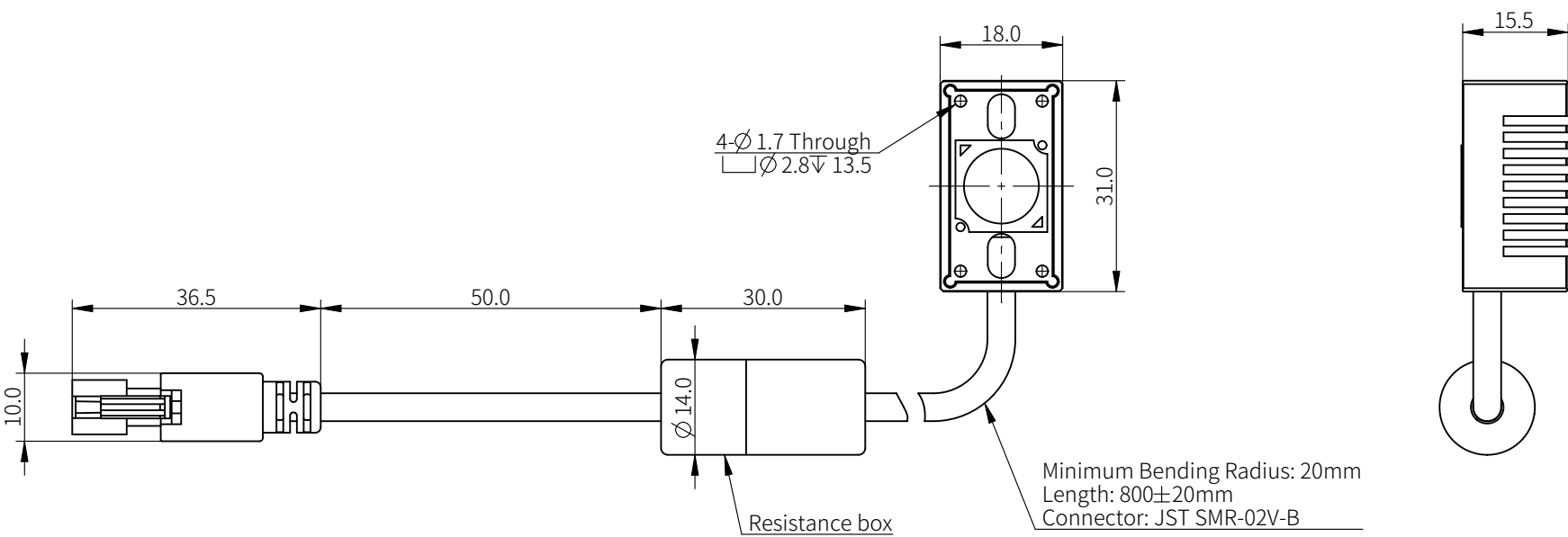
[3]The lens supports dedicated surface illumination. For objects with low reflectivity, a dedicated surface light source is recommended for better illumination. OPT-FL3118-CH-X is available as an option.



View Angle		Item	Signature	Date	 OPT Machine Vision Tech Co., Ltd.				
		Drawing							
Standard Difference	IT14	Design			All Rights Reserved				
		Check							
Drawing Code		Scale	1:1		Name	OPT-CH10-110FC-F6.5			
		Paper Size	A4		Unit	mm	Page 1 / 2		Version

A				B	C	D			
Model	Color	Voltage	Power			JST SMR-02V-B, 2 Pin or Compactible Connector 	Pin	Polarity	Wire Color
OPT-FL3118-CH-R	Red	24V	2.88W				1	+	/
OPT-FL3118-CH-G	Green	24V	2.88W				2	-	/
OPT-FL3118-CH-B	Blue	24V	2.88W						
OPT-FL3118-CH-W	White	24V	2.88W						

JST SMR-02V-B, 2 Pin
or Compactible Connector



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-FL3118-CH-X			
		Paper Size	A4		Unit	mm	Page 2 / 2		Version