

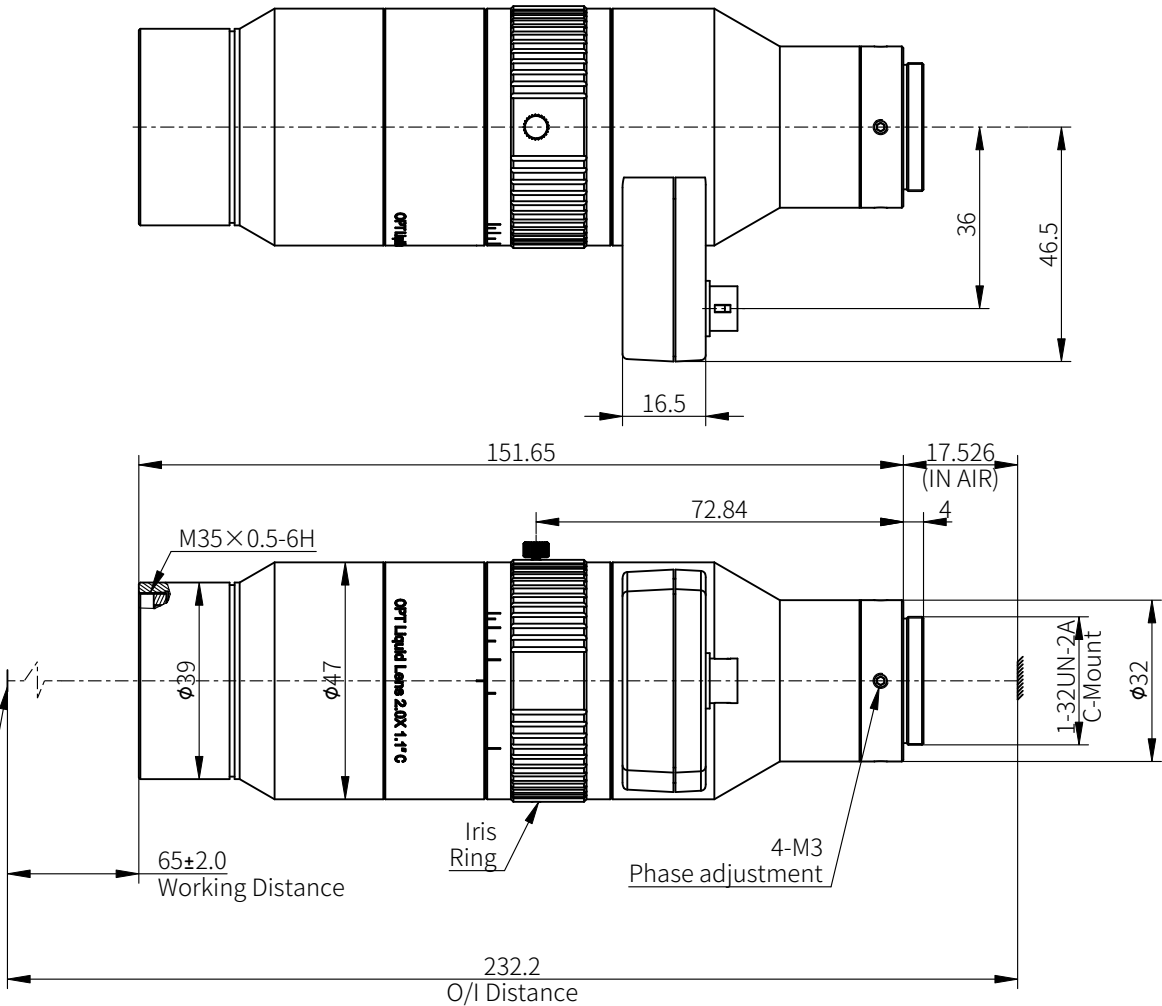
Optical Specification

Model	OPT-HP20-65-LQLTC
Optical Configuration	Telecentric
Working Distance (at 0 dpt) (mm)	65±2
Magnification	2.0X
Sensor φ(mm)	18.4(1.1")
Aperture	F7.0 ~ F62
Telecentricity	0.10°
NA	0.14142 ~ 0.01612
Distortion	<0.1%
Depth of Field (mm)	0.14
Resolution (at 0 dpt) (μm)	3.85
Image MTF30 (at 0 dpt) (lp/mm)	130
Field of View φ(mm)	9.20
Mount	C-Mount
Size (mm)	φ47×151.65
Weight (kg)	0.51
Filter Thread (mm)	M35×0.5-6H
O/I Distance without current (mm)	232.2
Connector type	Hirose HR10G-7R-6SB(73)
Focus tunable lens specifications	EL-12-30-TC-VIS
Focal power at 0 mA (25°C, typical) (dpt)	-1 ~ +2
Focal power range (25°C, ±250 mA)(dpt)	-6~+10
Wavefront error at 532 nm (vertical/horizontal) (λRMS)	0.15 / 0.23
Working Temperature	-0°C~+65°C
Storage temperature	-40°C~+85°C
Temperature compensation	Yes
Wavelength range (nm)	400~1000

[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 Tech Co., Ltd.			
		Drawing						
		Design			All Rights Reserved			
		Check						
Standard Difference	IT14	Scale	2:3		Name	OPT-HP20-65-LQLTC		
		Paper Size	A4		Unit	mm	Page 1 / 1	Version V1.0