

Parameter of Lens

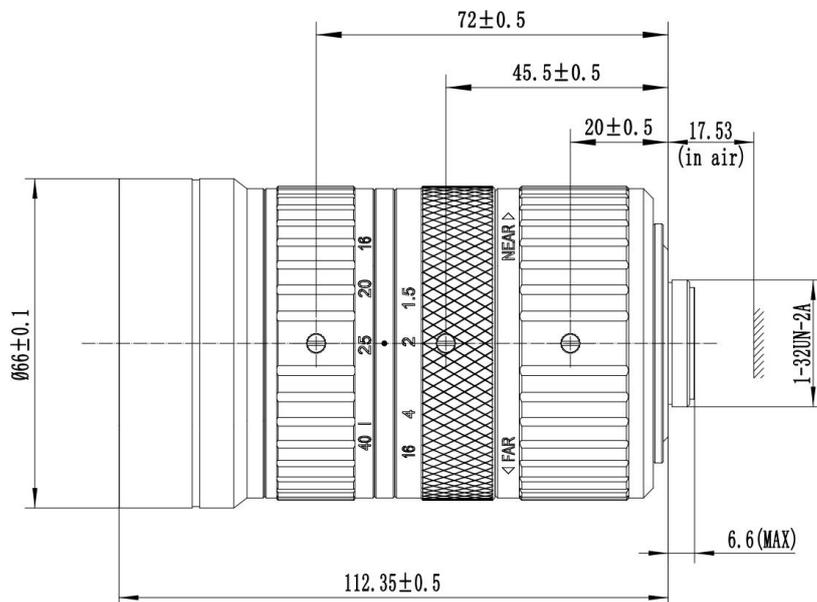
Model:

BLV1M1640MP12-IR



Resolution	12 MegaPixel							
Image format	1.1" (Φ17.6mm)							
Focal length	16.5 (W) -38.5 (T) (±5%mm)							
Aperture	F1.5 (W) -1.55 (T) (±5%mm)							
Mount	C							
Field Angle D×H×V(°) ±5%	°	1.1" (IMX428)		1" (17:9 IMX305)		1/1.2" (16:9 IMX485)		
		D	60.3	25.3	55.7	23.5	44.4	18.8
		H	50.1	21.2	49	20.7	38.7	16.5
		V	34.4	14.7	25.9	11.1	21.7	9.3
Optical Distortion	-9.0%	1.20%	-8.0%	0.81%	-5.4%	0.30%		
CRA	6.1	5.9	6.2	6.4	6.3	7.0		
Weight	740±10g							
Coating Range	400-900nm							
M. O. D.	1.5m (W) -2.5m (T)							
Dimension	Φ66×112.35mm							
Flange BFL	17.526±0.15mm (in air)							
BFL	12.48mm (in air)							
MBF	11.05mm (in air)							
Relative illuminance	44% (W) Φ8.8mm, 43% (T) Φ8.8mm							
IR Correction	Yes							
(Operation)	Iris			Manual				
	Focus			Manual				
	Zoom			Manual				
Operating temperature			-30°C ~ +70°C					

Size



Size tolerance (mm) :	0-10±0.2	10-30±0.3	30-120±0.5
Angle tolerance	±2°		

Test Standard			
Model:		BLV1M1640MP12-IR	
Test Items		Test Content	
1	Resolution Test	Test Conditions Fixed focus: 17.526mm Plate Glass Thickness: 1.5 ± 0.2 mm Project Distance: Wide 0.95m, with RL6858 Relay Lens Tele 3m, with RL7035 Relay Lens	
		Center \geq	160 lp/mm
		$\phi 10 \geq$	125 lp/mm
		$\phi 16 \geq$	100 lp/mm
		Image Standard	The image should be clear.
Environment		≤ 1 lux	
2	Appearance	Inside Lens Barrel 60-40: 60 Scratch: The maximum scratch width is allowed to be 0.06mm, scratch length on the first surface < 1 mm, scratch length on other surface $< \Phi / 4$. Scratch total length $< \Phi / 2$. 40 Bright Spots: (the size of the bright spot is determined by the longest side) The maximum bright spot size is allowed to be 0.4mm, only one in the middle and edge regions. Two bright spots is allowed when the size ≤ 0.2 mm, and the distance must ≥ 1 mm;	
		Outside Lens Barrel The lens barrel has no obvious color difference, scratch, break, deformation; the glue is not allowed to overflow into the effective light path; no word drop, clear writing, the same font size, even spacing, etc;	

Reliability and Environmental Testing

Model:

BLV1M1640MP12-IR

Test Items

Test Content

1

Temperature Cycling Test

Lens is placed on two cycles in the test temperature (-30 ± 3)°C for 1.5 hours and in (70 ± 3)°C for 3 hours separately. Then, the indicators are qualified after placing the lens at room temperature for 24 hours.

2

Damp heat test

Lens is placed in the test temperature (70 ± 3)°C, humidity 85% RH for 48 hours. Then, the indicators are qualified after placing the lens at room temperature for 24 hours.

3

Drop Test

Lens drops from the height of (1 ± 0.1 m) to the concrete ground. After the testing, the indicators are qualified.

4

Vibration Test

Lens vibrates 2h in sinusoidal wave under 1 mm of amplitude and 50Hz of frequency. After the testing, the indicators are qualified.

Packing Specification	
Model:	BLV1M1640MP12-IR
<ol style="list-style-type: none">1. After the lens is covered with the cover, attach the internal standard;2. Put the lens into the lined paper box, and put in the desiccant and instructions;3. Cover the inner lining cover, pack the carton, and affix the external label;4. Seal the corrugated box with tape and mark the surface.	