

Parameter of Lens

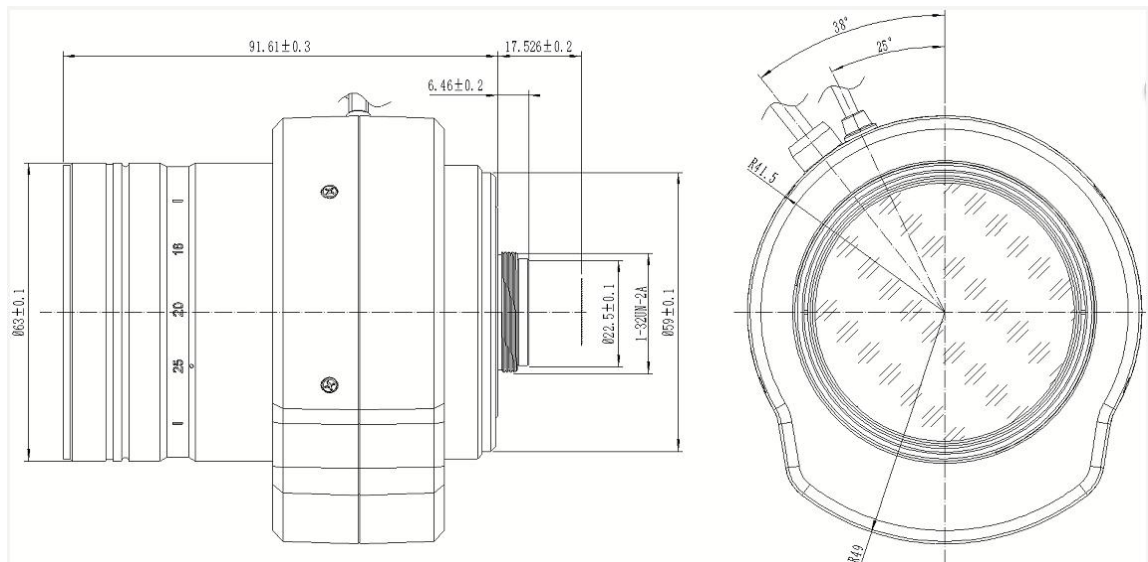
Model:

BLVZ1P1236MP8-IR



Resolution	8 MegaPixel						
Image format	1"						
Focal length	12~36 (±5%)mm						
Aperture	F1.6±10%						
Mount	C						
Field Angle) D×H×V(°) ±5%(W/T)	°	1		2/3		1/2	
	D	67.2	28.6	47.3	19.3	34.7	14
	H	54.6	22.6	38.1	15.4	27.9	11.4
V	41.5	16.8	28.7	11.5	20.9	8.3	
Optical Distortion	≤-8.0%@Φ16mm(W) ≤-4.86%@Φ16mm(T)						
CRA	≤5.82°@Φ16mm(W) ≤4.9°@Φ16mm(T)						
M. O. D.	2.5m						
Dimension	Φ63×91.61mm						
Relative Illumination	≥40%@Φ16mm(W/T)						
IR Correction	Yes						
Operation	Iris			P-Iris			
	Focus			Motorized			
	Zoom			Motorized			
Operating temperature	-30℃~+70℃						

Size



Motor

Model:

BLVZ1P1236MP8-IR

SEQUENCE OF EXCITATION

Step Phase	1	2	3	4
A	+	+	-	-
\bar{A}	-	-	+	+
B	-	+	+	-
\bar{B}	+	-	-	+

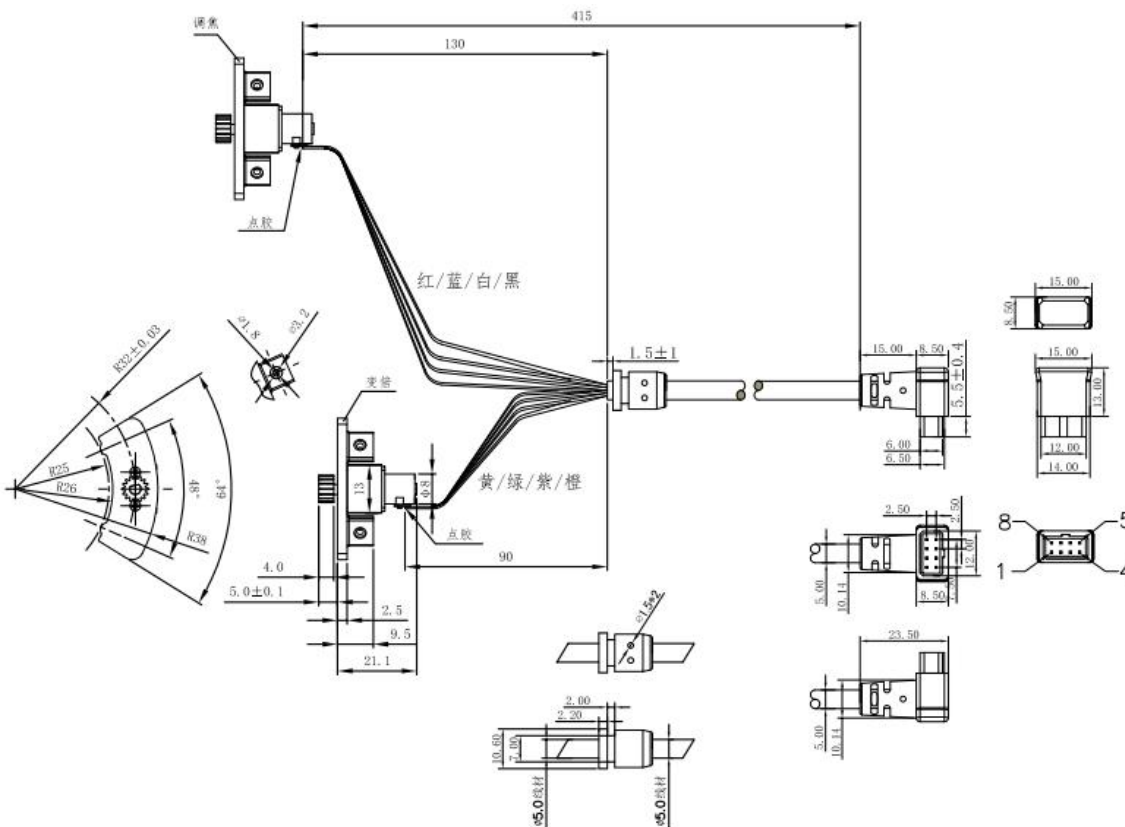
Output Shaft Rotation CW

CONNECTION DIAGRAM



PIN NO.	COLOR
①	(FOCUS A+)BLACK 黑
②	(FOCUS A-)BLUE 蓝
③	(ZOOM A+)ORANGE 橙
④	(ZOOM A-)GREEN 绿
⑤	(ZOOM B+)YELLOW 黄
⑥	(ZOOM B-)PURPLE 紫
⑦	(FOCUS B-)WHITE 白
⑧	(FOCUS B+)RED 红

输出齿参数	
压力角	20°
模数	0.4
齿数	16
齿顶圆直径	φ7.2
分度圆直径	φ6.4
齿根圆直径	φ5.4
精度等级	JGMA-116-02 4级



Connector	P=2.5, 8PIN							Coil Resistance	30 Ω ± 7%
								Rated Voltage	5V DC
								Max. starting frequency	1200PPS Min./5VDC
								Max. slewing frequency	2500PPS Min./5VDC
Meanings of Wire	BLACK	FOCUS A+	BLUE	FOCUS A-	ORANGE	ZOOM A+	GREEN	ZOOM A-	
	YELLOW	ZOOM B+	PURPLE	ZOOM B-	WHITE	FOCUS B-	RED	FOCUS B+	
Step Angle	18° /STEP				Transmission Ratio			1:156	
Output gear torque	200gf-cm Min. (AT 500PPS, 5V DC)				Operating temperature			-30℃ ~ +70℃	

P-Iris

Model:

BLVZ1P1236MP8-IR

一般公差	1級	2級	3級
1.5以下	±0.05	±0.1	±0.15
1.5~30	±0.1	±0.15	±0.2
30~100	±0.15	±0.2	±0.3
100~1000	±0.2	±0.3	±0.4
1000以上	±0.3	±0.4	±0.5

角度公差: ±1°

CONNECTION DIAGRAM

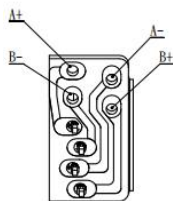
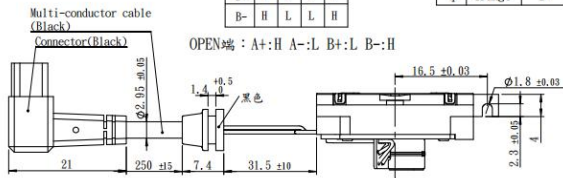


SEQUENCE OF EXCITATION

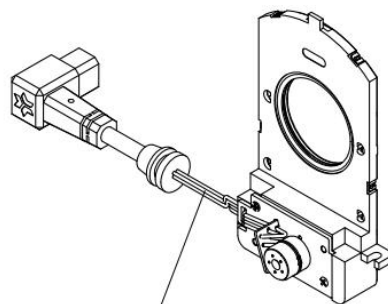
STEP	1	2	3	4
A+	H	H	L	L
A-	L	L	H	H
B+	L	H	H	L
B-	H	L	L	H

NO.	顏色	芯線
1	brown	B+
2	red	A-
3	yellow	A+
4	orange	B-

OPEN端: A+:H A-:L B+:L B-:H

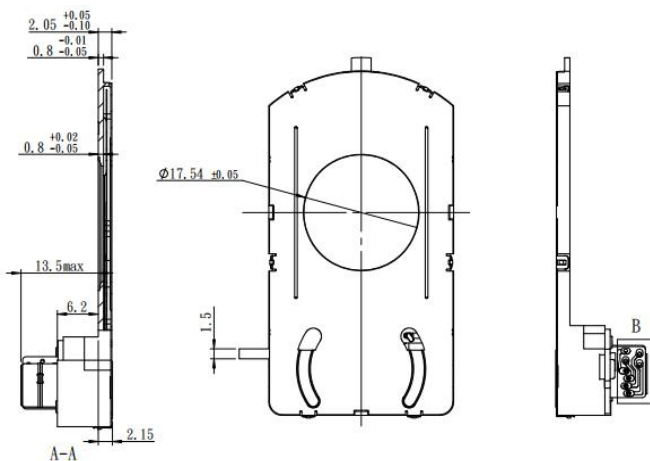
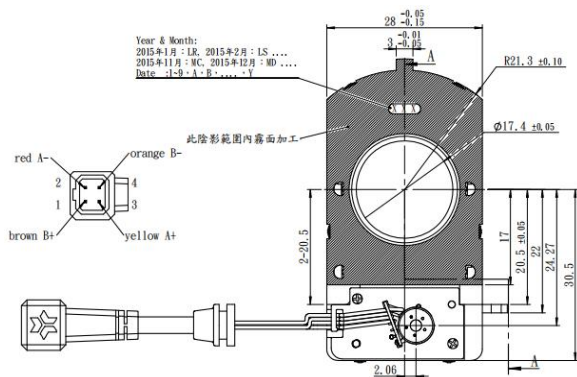


B (5 : 1)



導線	Φ3.0 4芯線 (絕緣色:黑)
規格	UL 1571 80°C 30V VW-1
線材	橙黃紅黑(材質:PVC)28#

Year & Month:
2015年1月: LR, 2015年2月: LS, ...
2015年11月: WC, 2015年12月: WD, ...
Date: YY-MM-AA, E-XXXX-YY



Max. Image Circle		Φ17.4mm	Resistance	30 Ω ±10%, 25°C
Iris Wire	brown	B+	Rated Voltage	DC 4.0V
	red	A-	Operating Voltage	DC 2.7~5V
	yellow	A+	Motor Step Angle	18° ±3° /step
	orange	B-	Output Step Angle	0.845° /step
Dimension	51.8×28×15.65mm		Continuous Time	30 sec(at 2.7DCV)
Reduction Ratio	1:21.3		Operating Environment	-30°C~70°C

Test Standard			
Model:		BLVZ1P1236MP8-IR	
Test Items		Test Content	
1	Resolution	Test Conditions	Tele and Wide edge $\Phi 16$ / medium focus edge $\phi 12$ turns
		Center \geq	160lp/mm(Wide, Project Distance $>1.5m$) 160lp/mm(焦距Focal length 25mm, with RL7035 Relay Lens) 160lp/mm(长焦 Tele, with RL7035 Relay Lens)
		Edge \geq	100lp/mm(Wide, Project Distance $>1.5m$) 80 lp/mm(Focal length 25mm, with RL7035 Relay Lens) 100lp/mm(Tele, with RL7035 Relay Lens)
		Image Standard	The image should be clear.
Environment		≤ 1 lux Plate Glass Thickness: 1.5mm	
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 $<1mm$, 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 $\leq 0.2mm$, and the distance must $\geq 1mm$;
		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;
		Rotation	Feel the rotation back and forth smoothly without jumping, stuck and abnormal sounds, etc
3	Auto Iris	Appearance	Cable and connector of iris have no obvious break, deformation, length of pins must be same.
		Actuation	The optical drive switching speed is slow and even, Do not act too fast, too slowly, or without action;
		Optical drive sensitivity	Use the camera to confirm the light sensitivity of the optical drive, and the response is sensitive and there is no time delay;

Reliability and Environmental Testing

Model:

BLVZ1P1236MP8-IR

Test Items

Test Content

1

Temperature Cycling Test

Lens is placed on two cycles in the test temperature (-30 ± 3) $^{\circ}\text{C}$ for 1.5 hours and in (70 ± 3) $^{\circ}\text{C}$ 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) $^{\circ}\text{C}$, 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 ($1\pm 0.1\text{m}$) 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, refocus the lens, the indicators are qualified.

Packing Specification	
Model:	BLVZ1P1236MP8-IR

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.