

# MSVF3X3313IR3-BCPN-MD

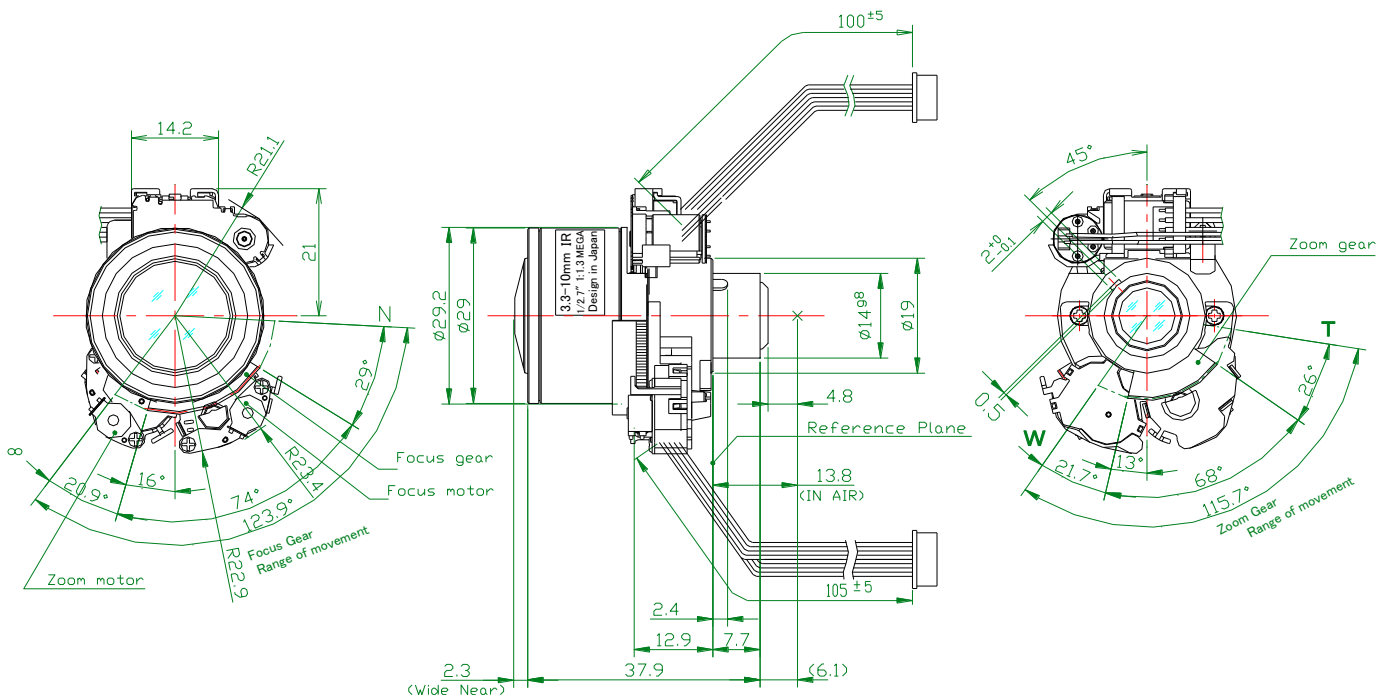


Type	AI VARI		Mount	φ 14 Straight Mount	
Focal Length	3.3~10.0mm		Back Focus	5.9~12.2mm	
Fno.	F1.3		Flange Back	13.8mm	
Designed Image Format	1/2.7" (φ 6.6)		Exit Pupil	-74.8 ~ -21.4mm	
Operation Range	Iris	F1.3-F16-Closed	Filter Size	-	
	Focus	0.5m~∞	Aperture	Front	φ 16.4mm
	Zoom	3.3~10.0mm		Rear	φ 6.7mm
Control	Iris	Motorized	Dimension	φ 29 x 37.9mm	
	Focus	Motorized		Weight	24.5g
	Zoom	Motorized			
	ICR	DC Galvanometer			
Object Size at MOD (500mm)	Wide	684.7x1094.3mm	539.2x1415.2mm		
	Tele	216.0x291.2mm	179.2x327.6mm		
Field of View	D	128.1° ~ 39.8°	134.0° ~ 40.7°		
	H	4:3 93.8° ~ 31.8°	16:9 108.1° ~ 35.6°		
	V	67.7° ~ 23.9°	55.7° ~ 19.9°		
Control	Iris	Focus	Zoom	IR cut filter	
Motor type	PM type stepping motor	PM type stepping motor	PM type stepping motor	Galvanometer	
Operation voltage	2.6V ~ 3.8V	3.0V ~ 3.6V	3.0V ~ 3.6V	3.0V ~ 5.0V	
Coil resistance	28.5Ω/phase ±10%	20Ω/phase ±7%		190Ω/phase ±10%	
Excite driving method	2phase Bipolar Constant voltage	1-2phase Bipolar Constant voltage	1-2phase Bipolar Constant voltage	-	
Reduction ratio	-	1/45	1/45	-	
Step angle	0.709°	0.2°	0.2°	-	
Insulation resistance	1MΩ or more	1MΩ or more	1MΩ or more	1MΩ or more	
pulse of fullstroke	-	3111	2405	-	
Input Signal	-				
Iris Accuracy	-				
Sensitivity Adjustment	-				
Operating Temperature	-10 ~ +50 °C				

## DIMENSIONS

4:3 Screen D=6.6, H=5.28, V=2.96

16:9 Screen D=6.75, H=5.9, V=3.3



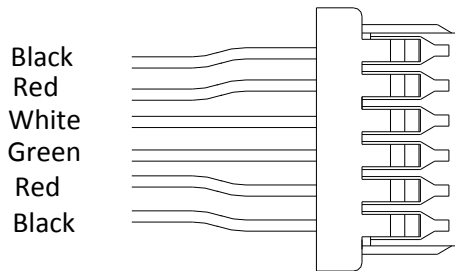
Subject to change without notice

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## CONNECTION & CONTROL

(1) Auto Iris terminal 1 (Marking)



51021-0600

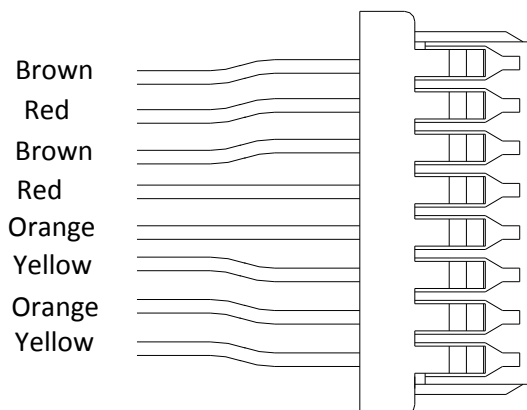
Pin number	Color	Assignment
1	Black	B
2	Red	A
3	White	$\bar{A}$
4	Green	B
5	Red	IR IN/OUT(-/+)
6	Black	IR GND

Excite Pattern of CW revolution				
Step	A	$\bar{A}$	B	$\bar{B}$
0	H	L	H	L
1	L	H	H	L
2	L	H	L	H
3	H	L	L	H

CW: Open → Close

(2) Focus & Zoom Motor Control terminal

1 (Marking)

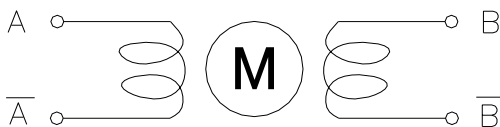


51021-0800

Pin number	Color	Assignment
1	Brown	Zoom A
2	Red	Zoom $\bar{A}$
3	Brown	Focus A
4	Red	Focus $\bar{A}$
5	Orange	Focus B
6	Yellow	Focus $\bar{B}$
7	Orange	Zoom B
8	Yellow	Zoom $\bar{B}$

### Focus & Zoom

Excite Pattern of CW revolution				
Step	A	$\bar{A}$	B	$\bar{B}$
0	H	L	H	L
1	L	L	H	L
2	L	H	H	L
3	L	H	L	L
4	L	H	L	H
5	L	L	L	H
6	H	L	L	H
7	H	L	L	L



Motor connection