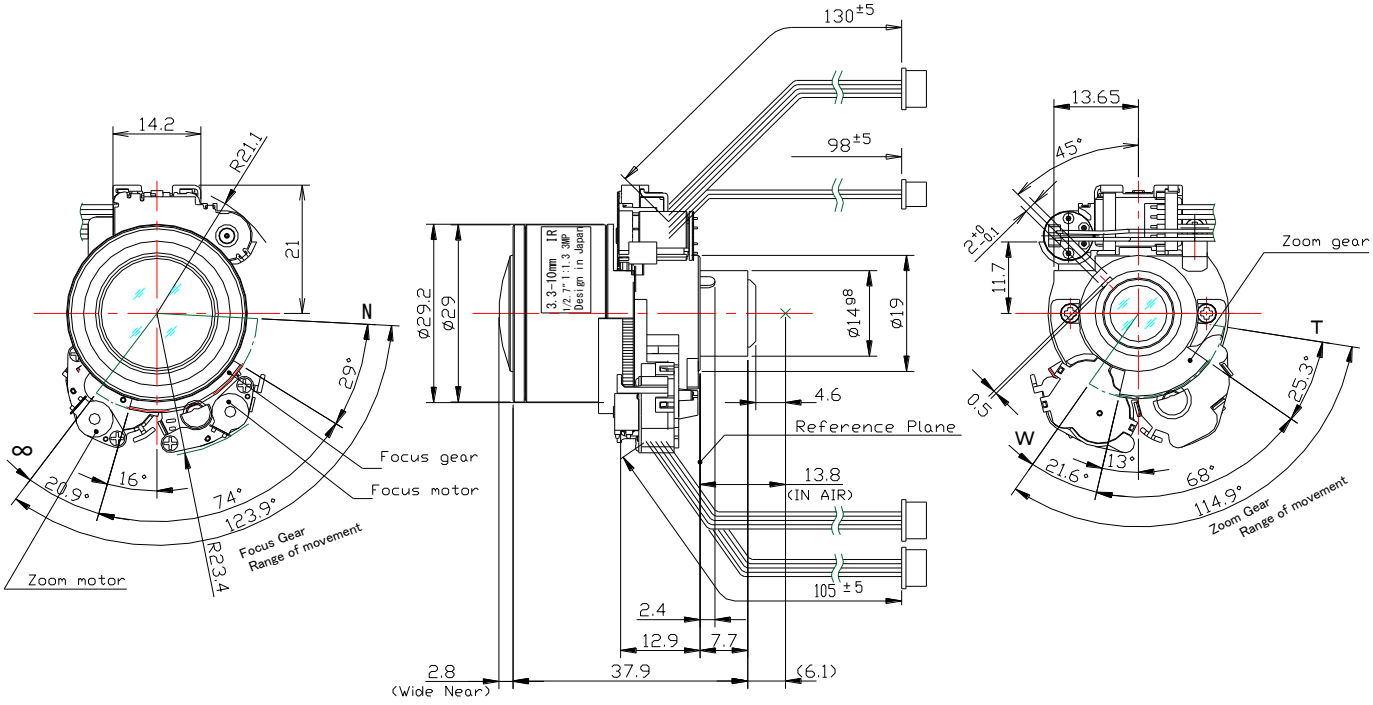
MSVF3X3313IR3-BCPN-MD2

Type		AI VARI	Mount		φ14 Straight Mount
Focal Length		3.3～10.0mm	Back Focus		5.5～11.9mm
Fno.		F1.3	Flange Back		13.8mm
Designed Image Format		1/2.7″(φ6.6)	Exit Pupil		−74.8 ～ −21.4mm
Operation Range	Iris	F1.3−F16−Closed	Filter Size		−
	Focus	0.5m～∞	Aperture	Front	φ16.4mm
	Zoom	3.3～10.0mm		Rear	φ6.7mm
Control	Iris	Motorized			
	Focus	Motorized	Dimension		φ29 x 37.9mm
	Zoom	Motorized	Weight		27g
	ICR	DC Galvanometer			
Object Size at MOD (500mm)	Wide	685.5x1095.9mm	527.7x1331.1mm		
	Tele	216.7x272.2mm	176.5x320.4mm		
Field of View	D	4:3 128.2° ～39.9°	16:9 128.2° ～39.9°		
	H	4:3 93.9° ～31.9°	16:9 104.8° ～34.8°		
	V	4:3 67.7° ～24.0°	16:9 54.7° ～19.6°		

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	2.6V ～ 4.8V	2.6V ～ 4.8V	3.0V ～ 5.0V
Coil resistance	28.5Ω/phase ±10%	20Ω/phase ±8%		190Ω/phase ±10%
Excite driving method	2phase Bipolar Constant voltage	2phase Bipolar Constant voltage	2phase Bipolar Constant voltage	−
Reduction ratio	−	1/45	1/45	−
Step angle	0.709°	0.4°	0.4°	−
Insulation resistance	1MΩ or more	1MΩ or more	1MΩ or more	1MΩ or more
pulse of fullstroke	−	1441	1161	−
Input Signal	−			
Iris Accuracy	−			
Sensitivity Adjustment	−			
Operating Temperature	−10 ～+50 ℃			

DIMENSIONS

4:3 Screen D=6.6, H=5.28, V=3.96
16:9 Screen D=6.6, H=5.76, V=3.24

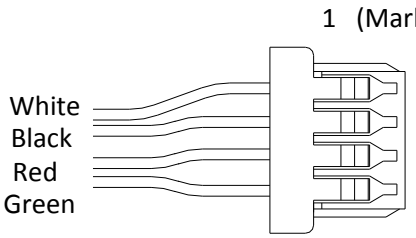


Subject to change without notice

MSVF3X3313IR3-BCPN-MD2

CONNECTION & CONTOROL

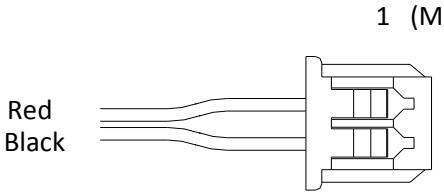
(1) Auto Iris terminal



51021-0400

Pin number	Color	Assignment
1	White	$\overline{A}$
2	Black	B
3	Red	A
4	Green	$\overline{B}$

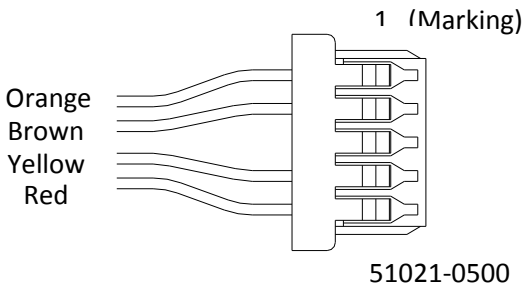
(2) IR Cut Filter Control terminal



51021-0200

Pin number	Color	Assignment
1	Red	IR IN/OUT(−/+)
2	Black	IR GND

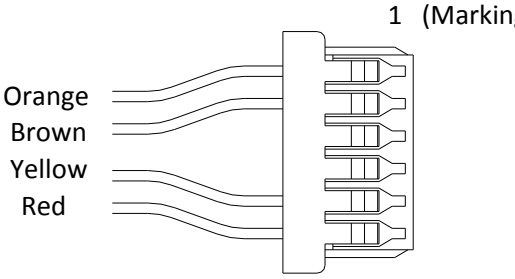
(3) Zoom Moter Control terminal



51021-0500

Pin number	Color	Assignment
1	Orange	B
2	Brown	A
3	N/A	N/A
4	Yellow	$\overline{B}$
5	Red	$\overline{A}$

(4) Focus Moter Control terminal



51021-0600

Pin number	Color	Assignment
1	Orange	B
2	Brown	A
3	N/A	N/A
4	N/A	N/A
5	Yellow	$\overline{B}$
6	Red	$\overline{A}$

(5)Moter Control Excitation pattern

Motor connection

Iris CW: Open → Close

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

Focus & Zoom

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