# MSVF3.3X0315IR-BCDN-MD2

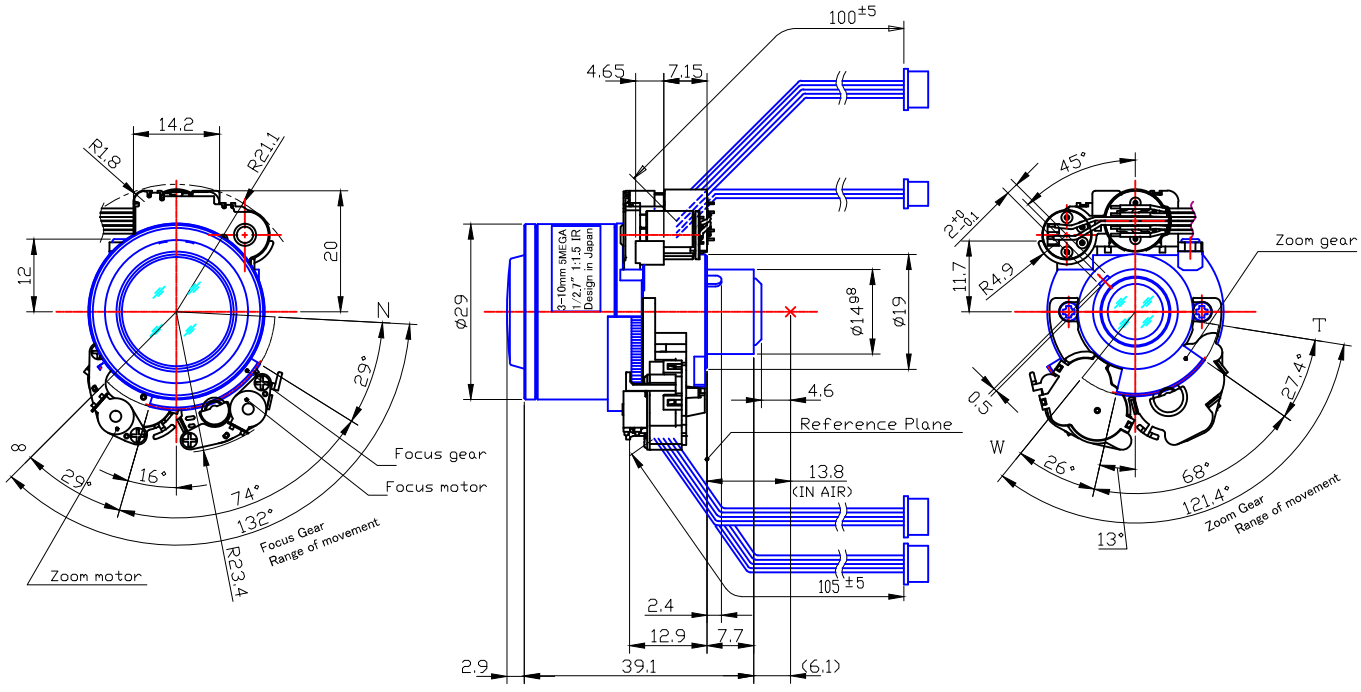
| | | | | | | |
|---|---|---|---|---|---|---|
| Type | | AI VARI | Mount | | ø14 Straight Mount | |
| Focal Length | | 3.0~10.0mm | Back Focus | | 5.15~12.65mm | |
| Fno. | | F1.5 | Flange Back | | 13.8mm | |
| Designed Image Format | | 1/2.7"(ϕ6.6) | Exit Pupil | | −54.63 ~ −20.95mm | |
| Operation Range | Iris | F1.5−T360 | Filter Size | | − | 1/2.7" |
| | Focus | 0.5m~ ∞ | Aperture | Front | ø 15.41mm | |
| | Zoom | 3.0~10.0mm | | Rear | ø 6.14mm | |
| Control | Iris | DC Galvanometer | | | | |
| | Focus | Motorized | Dimension | | ø29 x 39.1mm | |
| | Zoom | Motorized | Weight | | 26.5g | |
| Object Size at MOD (500mm) | Wide | 789.9x1351.1mm | 598.3x1708.2mm | | | |
| | Tele | 218.0x293.6mm | 177.6x321.7mm | | | |
| Field of View | D | 4 : 3 144.8°~40.2° | 16 : 9 144.8°~40.2° | | | FM |
| | H | Screen 106.0°~32.2° | Screen 118.4°~35.2° | | | |
| | V | (1/2.7) 75.6°~24.2° | (1/2.7) 61.0°~19.8° | | | |

| Control | Iris | Focus | Zoom | IR cut filter | |
|---|---|---|---|---|---|
| Motor type | Galvanometer | PM type stepping motor | PM type stepping motor | Galvanometer | |
| Operation voltage | 3.0V ~ 5.0V | 2.6V ~ 4.8V | 2.6V ~ 4.8V | 3.0V ~ 5.0V | |
| Driving Coil resistance | 190Ω/phase±10% | 20Ω/phase±8% | | 190Ω/phase±10% | |
| Damping Coil resistance | 855Ω/phase±10% | − | − | − | |
| Excite driving method | − | 2phase Bipolar Constant voltage | 2phase Bipolar Constant voltage | − | |
| Reduction ratio | − | 1/45 | 1/45 | − | |
| Step angle | − | 0.4° | 0.4° | − | |
| Insulation resistance | 1MΩ or more | 1MΩ or more | 1MΩ or more | 1MΩ or more | BCDN |
| pulse of fullstroke | − | 1668 | 1323 | − | |
| 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



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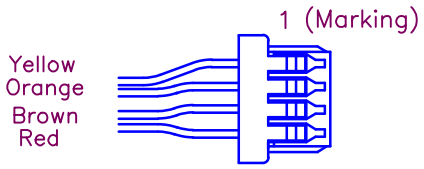
CONNECTION & CONTROL

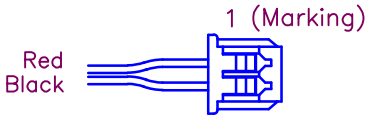
(1) Auto Iris terminal




51021-0400

| Pin number | Color | Assignment |
|---|---|---|
| 1 | Yellow | Dump + |
| 2 | Orange | Dump − |
| 3 | Brown | Drive + |
| 4 | Red | Drive − |

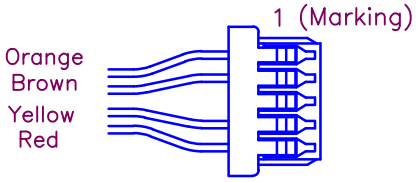
(2) IR Cut Filter Control terminal




51021-0200

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

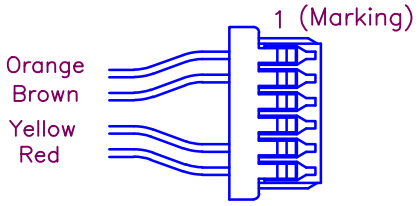
(3) Zoom Motor Control terminal




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 Motor 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) Zoom/Focus Motor Control Excitation pattern


Motor connection

| 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 |