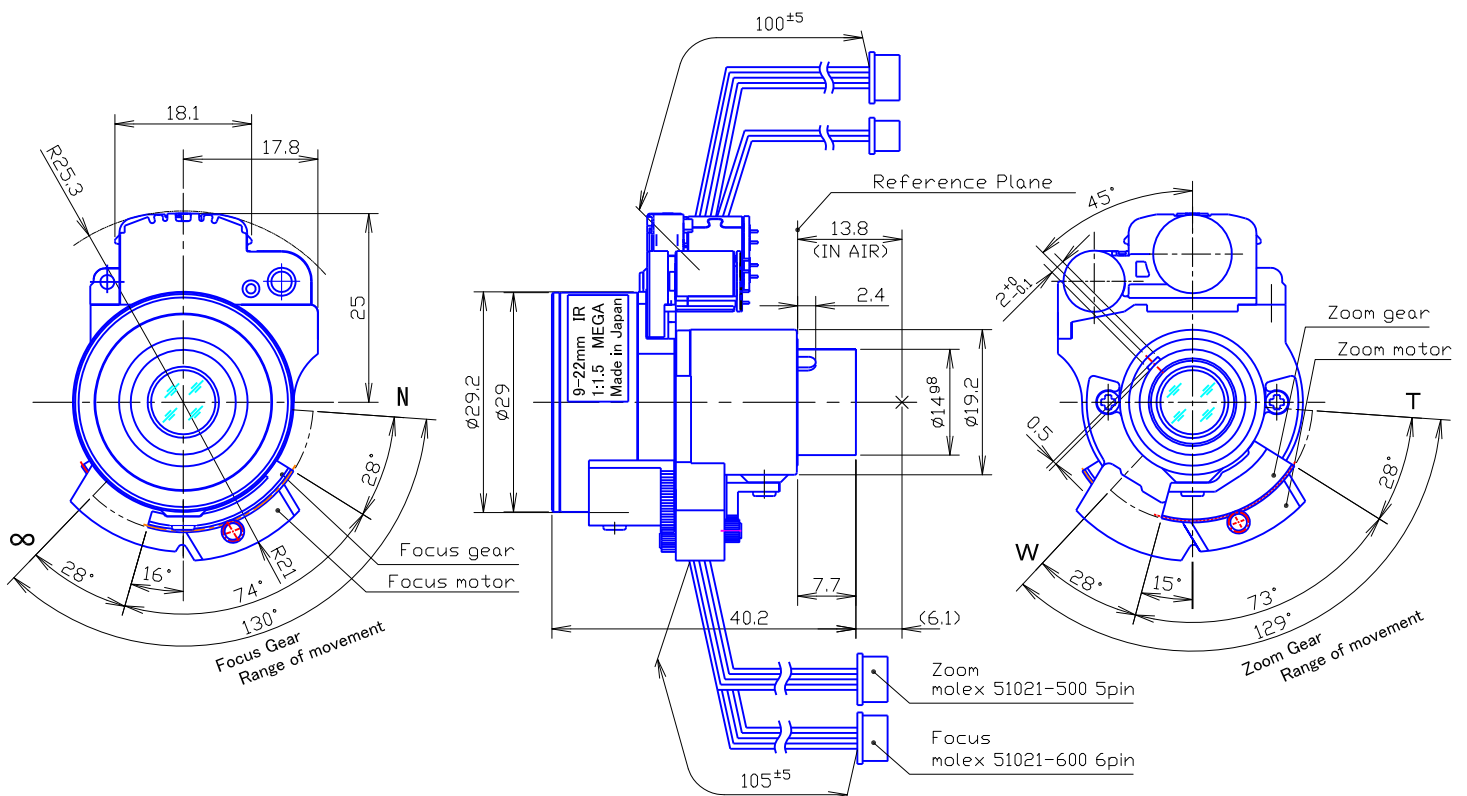


TVF2.4X0915IR-BCDN-MD

| | | | | | | |
|---------------------------|-----------------|-----------------|--------------------------------------|--------------------------------------|---------|--|
| Type | AI VARI | | Mount | ø14 Straight Mount | | |
| Focal Length | 9.0~22.0mm | | Back Focus | 6.7~14.2mm | | |
| Fno. | F1.5 | | Flange Back | 13.8mm | | |
| Designed Image Format | 1/3"(4.8x3.6mm) | | Exit Pupil | -40.8 ~ -25.6mm | | |
| Operation Range | Iris | F1.5-F360 | Filter Size | - | | |
| | Focus | 0.50m~∞ | Aperture | Front | ø 8.2mm | |
| | Zoom | 9.0~22.0mm | | Rear | ø 7.1mm | |
| Control | Iris | DC Galvanometer | Dimension | ø29.2 x 40.2mm | | |
| | Focus | Mortorized | | Weight | 27.1g | |
| | Zoom | Mortorized | | | | |
| Object Size at MOD | Wide | 207.6x284.8mm | | | | |
| | Tele | 88.4x118.2mm | | | | |
| Field of View | D | 39.0°~16.2° | 1/4" | 28.6°~12.2° | | |
| | H | 30.6°~13.0° | | 22.6°~9.8° | | |
| | V | 22.6°~9.8° | | 16.8°~7.2° | | |
| Control | Iris | | Focus | | Zoom | |
| Motor type | Galvanometer | | PM type stepping motor | PM type stepping motor | | |
| Driving Coil/Supply Volt. | 190Ω | | - | - | | |
| Damping Coil/Current | 465Ω | | - | - | | |
| IR cut filter | 3.5V ~ 5.0V | | - | - | | |
| Operation voltage | | | 2.8V ~ 3.6V | 2.8V ~ 3.6V | | |
| Coil resistance | | | 28.5Ω/phase ±7% | 28.5Ω/phase ±7% | | |
| Excite driving method | | | 1-2phase Bipolar Constant voltage | 1-2phase Bipolar Constant voltage | | |
| Reduction ratio | | | 1/131.574 | 1/131.574 | | |
| Step angle | | | 0.342° | 0.342° | | |
| Insulation resistance | | | 1MΩ or more | 1MΩ or more | | |
| Light Measuring Method | | | - | - | | |
| Input Signal | | | - | - | | |
| Iris Accuracy | | | - | - | | |
| Sensitivity Adjustment | | | - | - | | |
| Operating Temperature | | | -10 ~ +50 degree C | | | |

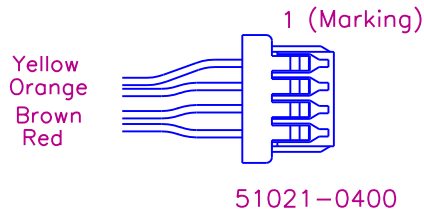
DIMENSIONS



TVF2.4X0915IR-BCDN-MD

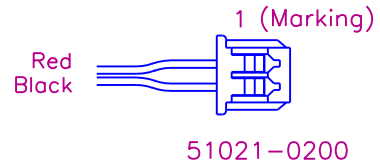
CONNECTION & CONTROL

(1) Auto Iris terminal



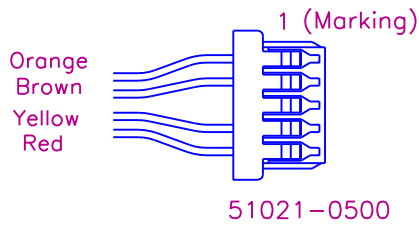
| Pin number | Color | Assignment |
|------------|--------|------------|
| 1 | Yellow | Dump + |
| 2 | Orange | Dump - |
| 3 | Brown | Drive + |
| 4 | Red | Drive - |

(2) IR Cut Filter Control terminal



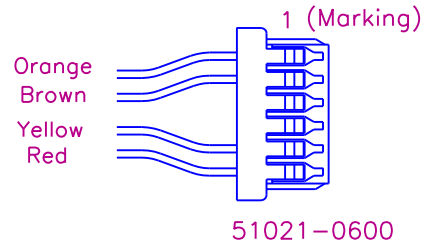
| Pin number | Color | Assignment |
|------------|-------|----------------|
| 1 | Red | IR IN/OUT(+ -) |
| 2 | Black | IR GND |

(3) Zoom Motor Control terminal



| Pin number | Color | Assignment |
|------------|--------|------------|
| 1 | Orange | B |
| 2 | Brown | A |
| 3 | N/A | N/A |
| 4 | Yellow | <u>B</u> |
| 5 | Red | <u>A</u> |

(4) Focus Motor Control terminal



| Pin number | Color | Assignment |
|------------|--------|------------|
| 1 | Orange | B |
| 2 | Brown | A |
| 3 | N/A | N/A |
| 4 | N/A | N/A |
| 5 | Yellow | <u>B</u> |
| 6 | Red | <u>A</u> |

(5) Zoom/Focus Motor Control Excitation pattern



| Excite Pattern of CW revolution | | | | |
|---------------------------------|---|----------|---|----------|
| Step | A | <u>A</u> | B | <u>B</u> |
| 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 |