

<b>SPEC. INFO</b>	<b>FL-CC0814-5M RC SPEC.</b>	3130823-S001-RC-B13
		Oct. 09. 2012

1. Model FL - C C 0 8 1 4 - 5 M

2. Application For 2/3 Format Camera

3. Specification

3-1. Physical (As per the attached drawing)

- (1) Dimensions  $\phi$  60.8 mm  $\times$  64 mm
- (2) Weight 260g
- (3) Filter Screw Size  $\phi$  58 mm, P=0.75 mm
- (4) Mount C-Mount (1-32UN-2A)

3-2. Optical

- (1) Focal Length 8 mm  $\pm$ 5%
- (2) Max. Aperture Ratio 1: 1.4  $\pm$ 5%
- (3) Iris Range F / 1.4 to F / 16
- (4) Angle of View

Diagonal	69.4°
Horizontal	57.8°
Vertical	44.5°
- (5) Picture format 8.8 mm  $\times$  6.6 mm
- (6) Minimum Object Distance Inf. to 0.1m (from front edge of barrel)
- (7) Back Focal Length 11.5mm (in Air)
- (8) Flange Back Length 17.526 mm  $\pm$ 0.05 mm (in Air)

3-3. Mechanical

- (1) Focusing Mechanism Straight Helicoid
  - Rotation Angle 80.5°
  - Rotation Torque 1.0 N·cm to 7.0 N·cm
  - Focus Ring can be fixed at any positions by 3 fixing screws <sup>Ⓐ</sup> (refer to external view)
- (2) Iris Mechanism Non-click
  - Rotation Angle 95.0°
  - Rotation Torque 0.2 N·cm to 4.0 N·cm
  - Iris Ring can be fixed at any positions by 3 fixing screws <sup>Ⓑ</sup> (Refer to external view)

3-4. Vibration Test Standard

(1) Vibration Conditions

Wave	Sine Wave
Acceleration	1.96 m/s <sup>2</sup> ~ 59.78m/s <sup>2</sup>
Cycle Range	10 Hz to 55 Hz
Cycle Period	3 Minutes
Duration of Vibration	120 Minutes Respectively in Three Dimensional Directions

(2) Shock Conditions

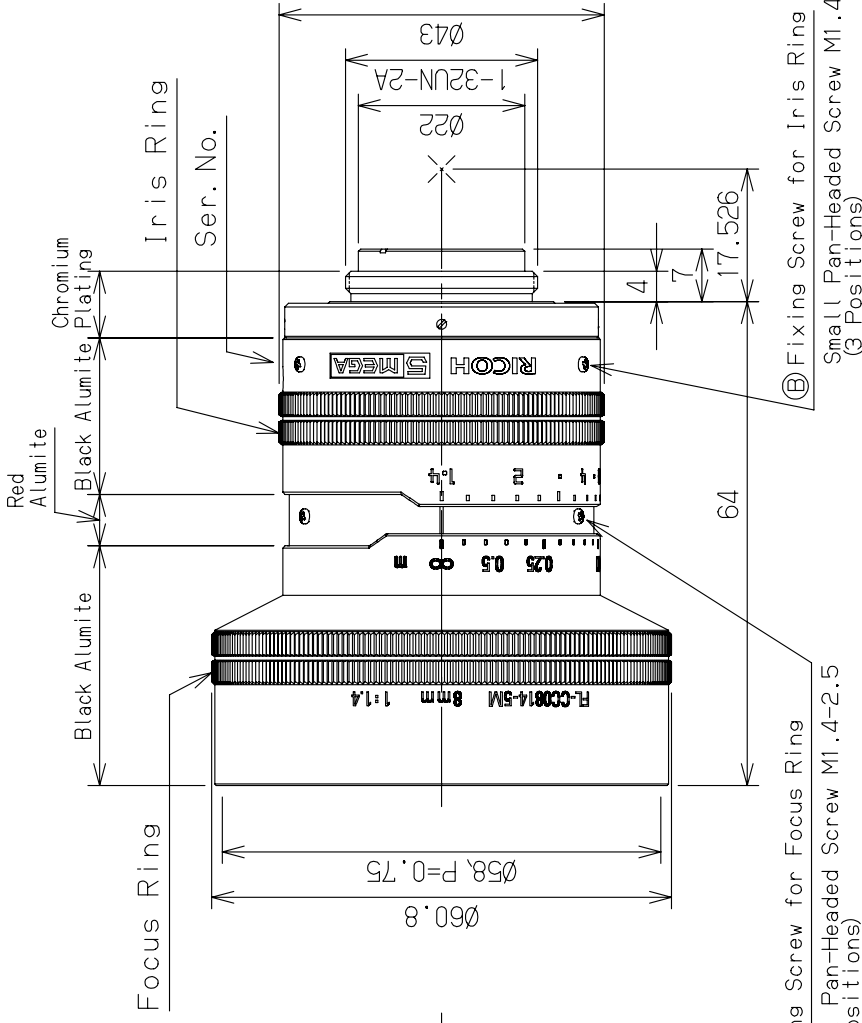
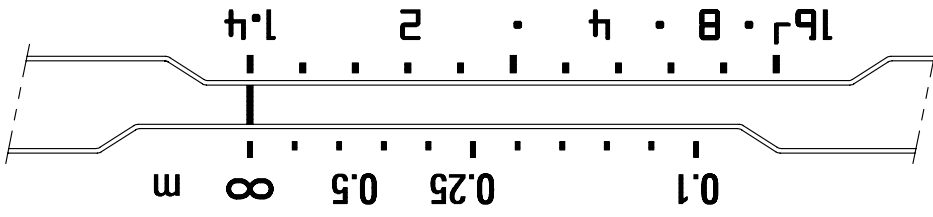
Tester	Shock Testing Machine by Dropping
Impact Force	588 m/s <sup>2</sup>
Duration of Shock	3.5 ms
Directions&Number of Times	1 Time Respectively in Three Dimensional Directions

3-5.EnvironmentalTemperature Range -20°C to +50°C

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4. Accessories

- |  |          |                      |
|--|----------|----------------------|
| (1) Front Lens Cap                           | 1 piece  |                      |
| (2) Rear Lens Cap                            | 1 piece  |                      |
| (3) Fixing Screw <sup>Ⓐ</sup> for Focus Ring | 3 pieces |                      |
| (4) Fixing Screw <sup>Ⓑ</sup> for Iris Ring  | 3 pieces |                      |
| (5) Thumbscrew for Focus Ring                | 1 piece  | (for Optional Usage) |
| (6) Thumbscrew for Iris Ring                 | 1 piece  | (for Optional Usage) |
| (7) Packing Box                              | 1 piece  |                      |



Ⓐ Fixing Screw for Focus Ring  
Small Pan-Headed Screw M1.4-2.5  
(3 Positions)

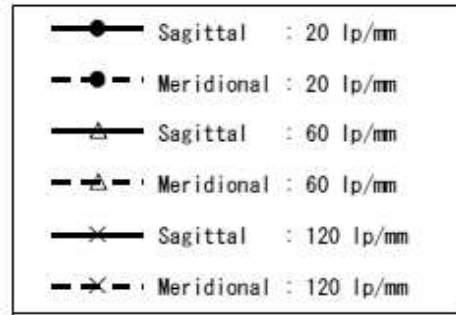
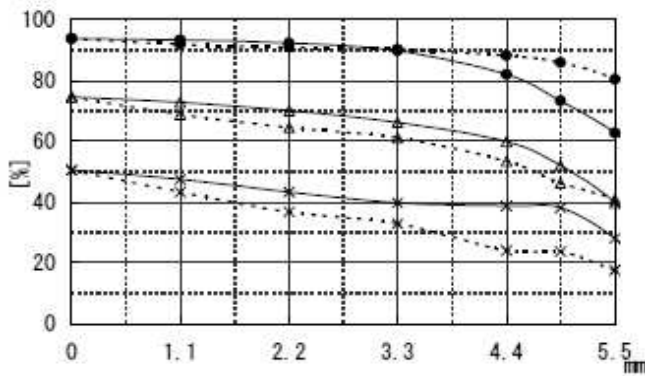
Ⓑ Fixing Screw for Iris Ring  
Small Pan-Headed Screw M1.4-2.2  
(3 Positions)

Ⓐ Fixing Screw for Focus Ring (3 pieces)	Ⓑ Fixing Screw for Iris Ring (3 pieces)
Thumb Screw for Focus Ring Optional Usage (1 piece)	Thumb Screw for Iris Ring Optional Usage (1 piece)

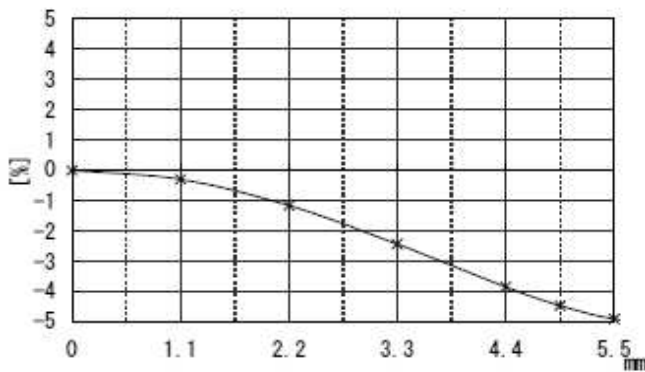
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●Modulation Transfer Function (MTF)

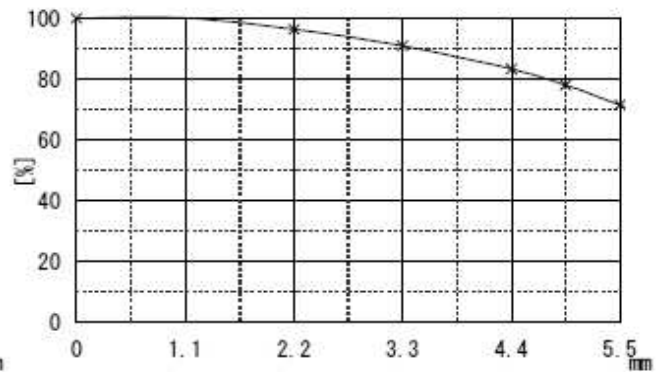
W. D. = 250mm



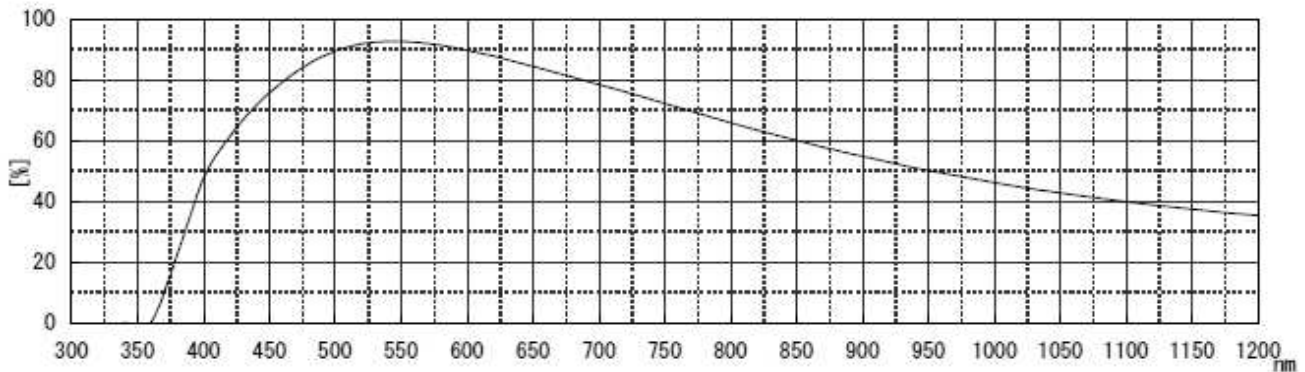
●Distortion (歪曲収差)



●Vignetting (周辺光量)



●Spectral Transmittance (分光透過率)



- Entrance Pupil Position (入射瞳位置) -57.11 [mm]\*
- Exit Pupil Position (射出瞳位置) -64.22 [mm]\*
- 1st Principal Point (第一主点) -49.93 [mm]\*
- 2nd Principal Point (第二主点) -8.24 [mm]\*

(\*:From Image Plane, W.D.=∞)



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