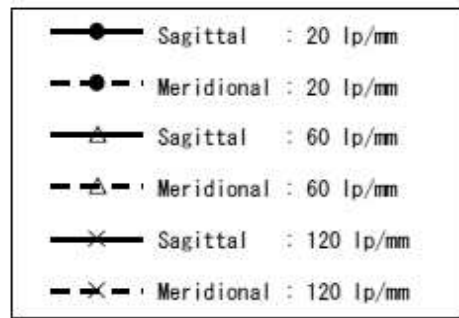
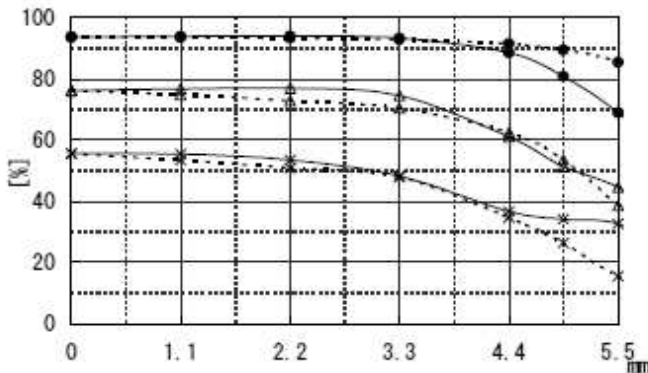
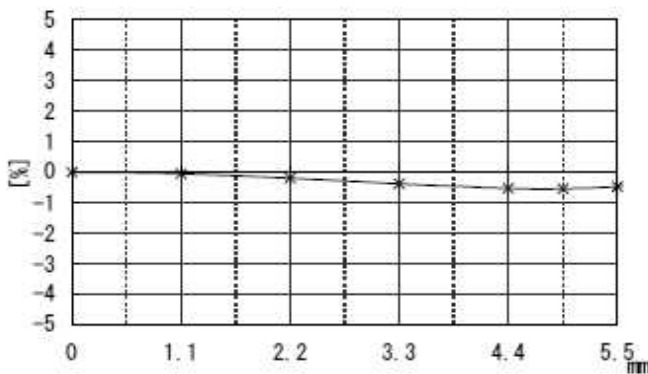


●Modulation Transfer Function (MTF)

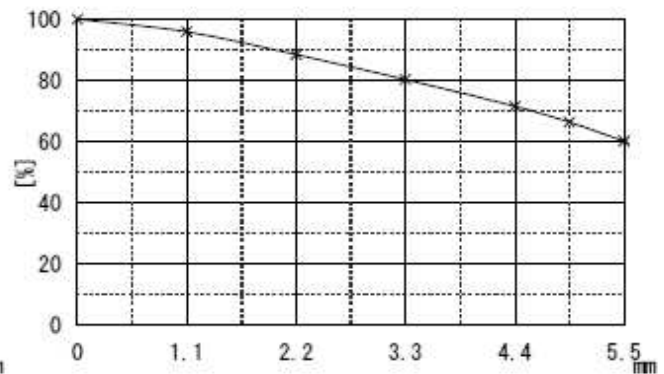
W. D. = 250mm



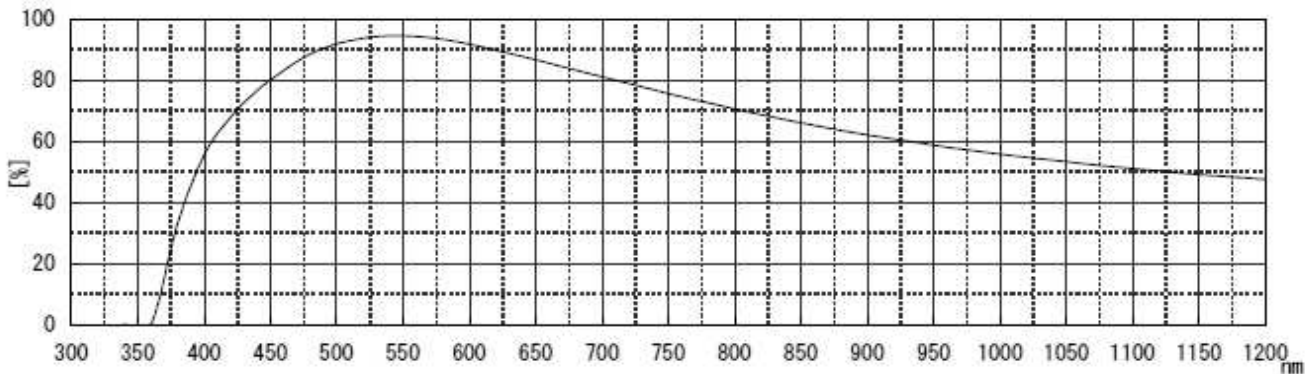
●Distortion (歪曲収差)



●Vignetting (周辺光量)



●Spectral Transmittance (分光透過率)



- Entrance Pupil Position (入射瞳位置) -40.88 [mm]*
- Exit Pupil Position (射出瞳位置) -54.25 [mm]*
- 1st Principal Point (第一主点) -29.61 [mm]*
- 2nd Principal Point (第二主点) -15.99 [mm]*

(*:From Image Plane , W. D.=∞)

SPEC. INFO	FL-CC1614-5M RC SPEC.	3131635-S001-RC-B13
		Oct. 09. 2012

1. Model FL - C C 1 6 1 4 - 5 M

2. Application For 2/3 Format Camera

3. Specification

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

- (1) Dimensions ϕ 43 mm \times 47 mm
- (2) Weight 140g
- (3) Filter Screw Size ϕ 40.5 mm, P=0.5 mm
- (4) Mount C-Mount (1-32UN-2A)

3-2. Optical

- (1) Focal Length 16 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	37.9°
Horizontal	30.8°
Vertical	23.4°
- (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 0.05mm (in Air)

3-3. Mechanical

- (1) Focusing Mechanism Straight Helicoid
Rotation Angle 95.7°
Rotation Torque 1.0 N·cm to 7.0 N·cm
Focus Ring can be fixed at any positions by thumbscrew [Ⓐ]
(refer to external view)
- (2) Iris Mechanism Non-click
Rotation Angle 90.3°
Rotation Torque 0.5 N·cm to 3.0 N·cm
Iris Ring can be fixed at any positions by thumbscrew [Ⓑ]
(Refer to external view)

3-4. Vibration Test Standard

(1) Vibration Conditions

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

(2) Shock Conditions

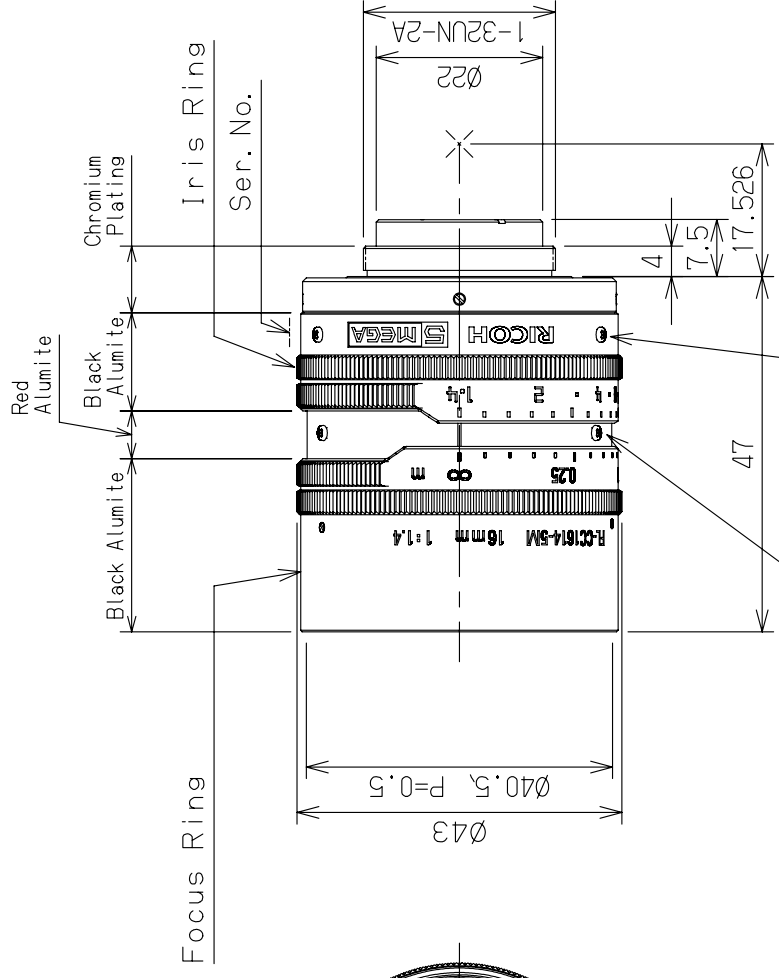
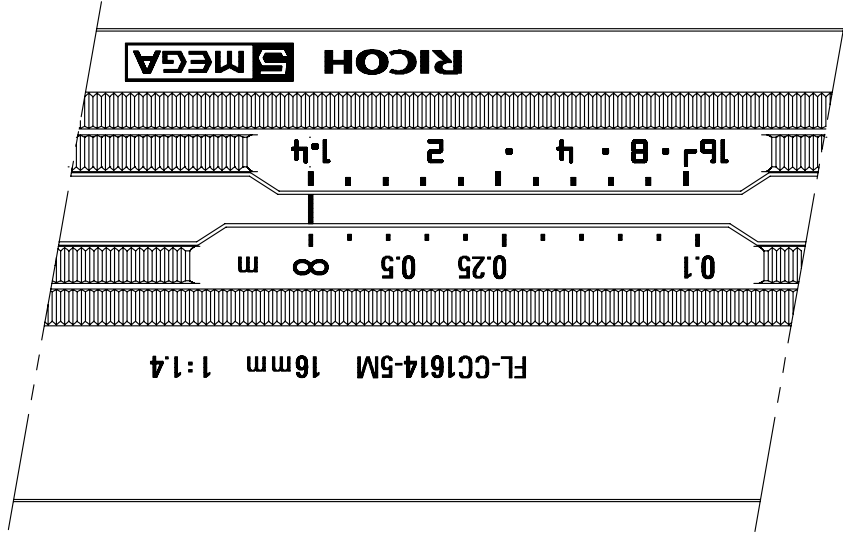
Tester	Shock Testing Machine by Dropping
Impact Force	597 m/s ²
Duration of Shock	3.5 ms
Directions&Number of Times	1 Time Respectively in Three Dimensional Directions

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

SPEC. INFO	FL-CC1614-5M RC SPEC.	3131635-S001-RC-B23
		Oct. 09. 2012

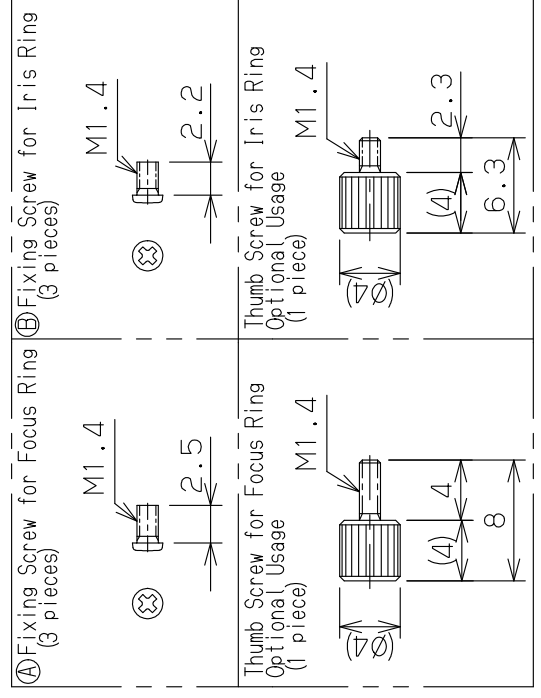
4. Accessories

- | | | |
|--|----------|----------------------|
| (1) Front Lens Cap | 1 piece | |
| (2) Rear Lens Cap | 1 piece | |
| (3) Fixing Screw [Ⓐ] for Focus Ring | 3 pieces | |
| (4) Fixing Screw [Ⓑ] 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)





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