

SPEC. INFO	FL-BC2514D-VG RC SPEC.	3122529-S001-RC-B13
		Sep. 27, 2012

1. Model FL-BC2514D-VG

2. Application For 1 Format Camera

3. Specification

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

- | | |
|-----------------------|--|
| (1) Dimensions | $\phi 30\text{mm} \times 37.3\text{ mm}$ |
| (2) Weight | 76g |
| (3) Mount | C-Mount (1 – 32 UN – 2A) |
| (4) Filter Screw Size | $\phi 27\text{ mm}$, P = 0.5 mm |

3-2. Optical

- | | | |
|-----------------------------|-------------------------|--------|
| (1) Focal Length | 25 mm $\pm 5\%$ | |
| (2) Max. Aperture Ratio | 1: 1.4 | |
| (3) Iris Range | F / 1.4 to F / 22 | |
| (4) Angle of View | Diagonal | 36.10° |
| | Horizontal | 28.95° |
| | Vertical | 21.74° |
| (5) Picture format | 12.7 mm $\times$ 9.5 mm | |
| (6) Minimum Object Distance | 0.3 m | |
| (7) Back Focal Length | 14.98 mm | |
| (8) Flange Back Length | 17.526 mm $\pm$ 0.05 mm | |

3-3. Mechanical

- | | |
|------------------------|---|
| (1) Focusing Mechanism | Straight Helicoid |
| | Rotation Angle 208° |
| | Rotation Torque 0.98N·cm to 4.9 N·cm |
| | Focus Ring can be fixed at any positions by 3 fixing screws (A) or 1 thumb screw (refer to external view) |
| | Non-click, Close-down |
| (2) Iris Mechanism | Rotation Angle 98.5° |
| | Rotation Torque 0.98N·cm to 6.86 N·cm |
| | Iris Ring can be fixed at any positions by 3 fixing screws (B) or 1 thumb screw (refer to external view) |
| | |

3-4. Vibration & Shock Test Standard

(1) Vibration Conditions

Wave	Sine Wave
Acceleration	1.96 m/s ² to 59.78 m/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

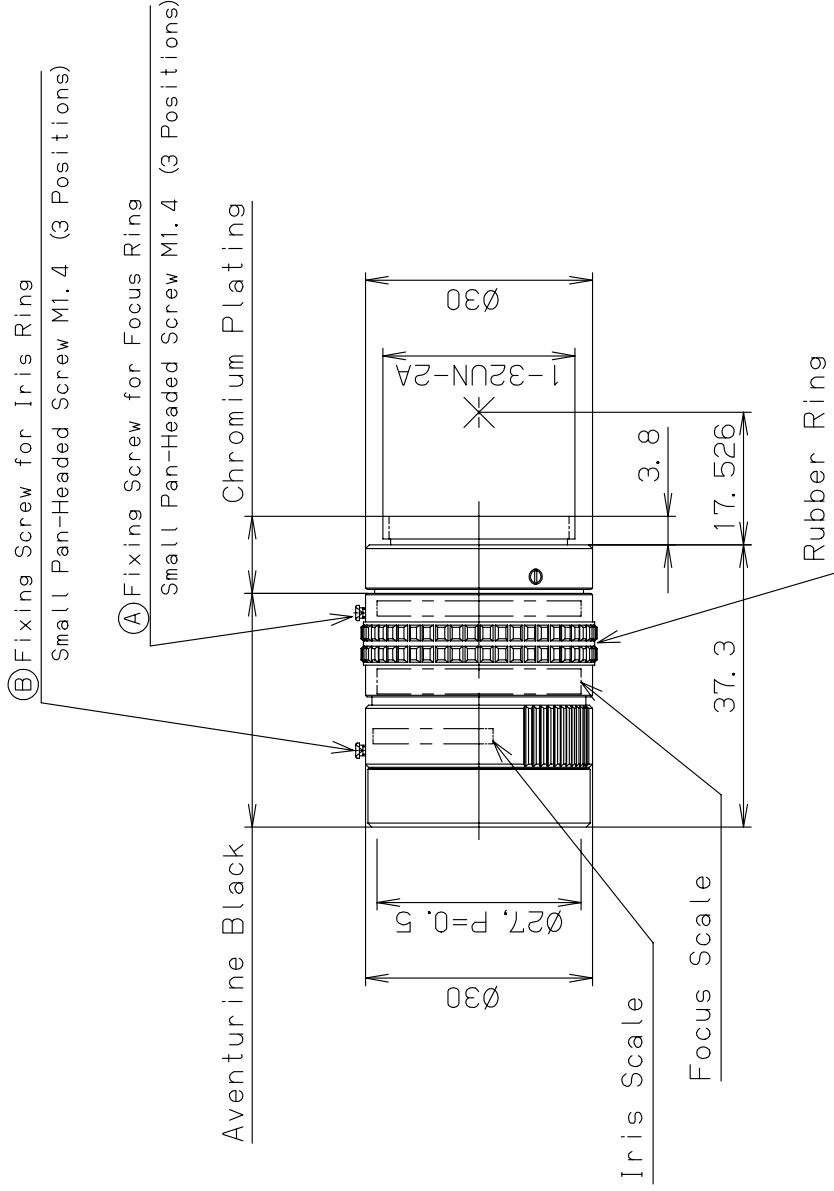
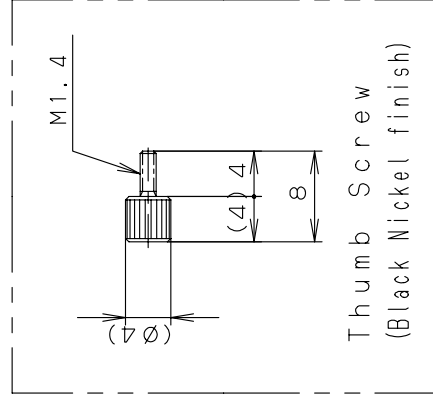
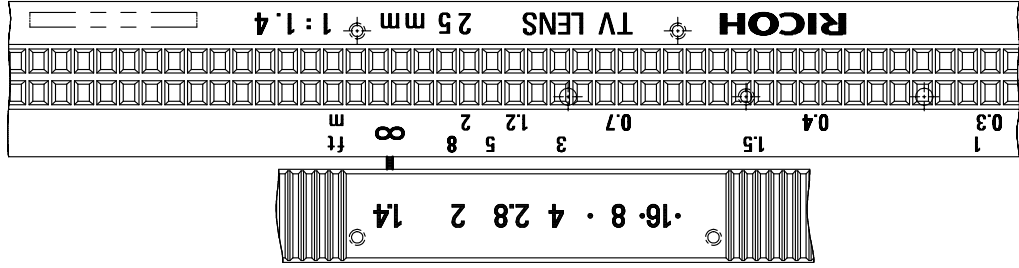
Tester	Shock Testing Machine by Dropping
Impact Force	588 m/s ²
Duration of Shock	3.5 ms
Directions & Number of Times	1 Time Respectively in Three Dimensional Directions

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3-5. Environmental Temperature Range -20°C to $+50^{\circ}\text{C}$

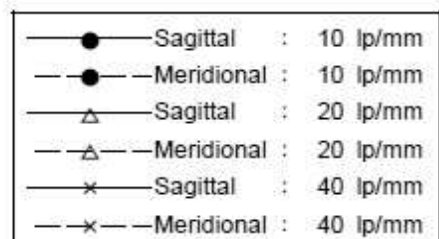
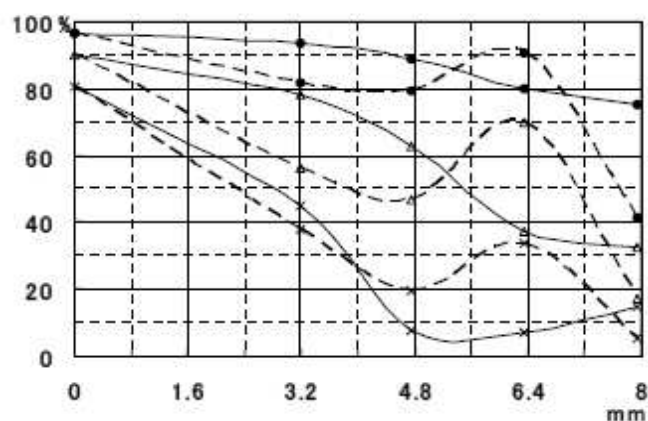
4. Accessories

(1) Front Lens Cap	1 piece	
(2) Rear Lens Cap	1 piece	
(3) Fixing Screw ① for Focus Ring	3 pieces	
(4) Fixing Screw ② for Iris Ring	3 pieces	
(5) Thumbscrew	2 pieces	(for Optional Usage)
(6) Packing Box	1 piece	



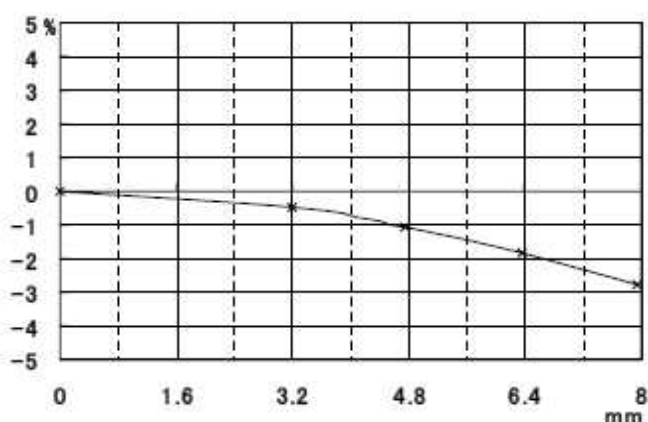
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●Modulation Transfer Function (MTF)

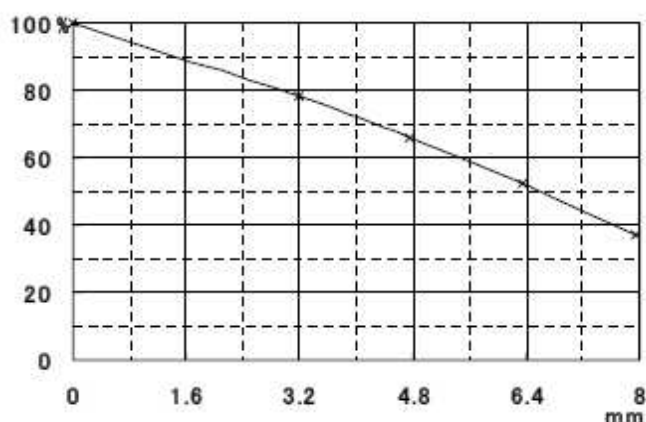


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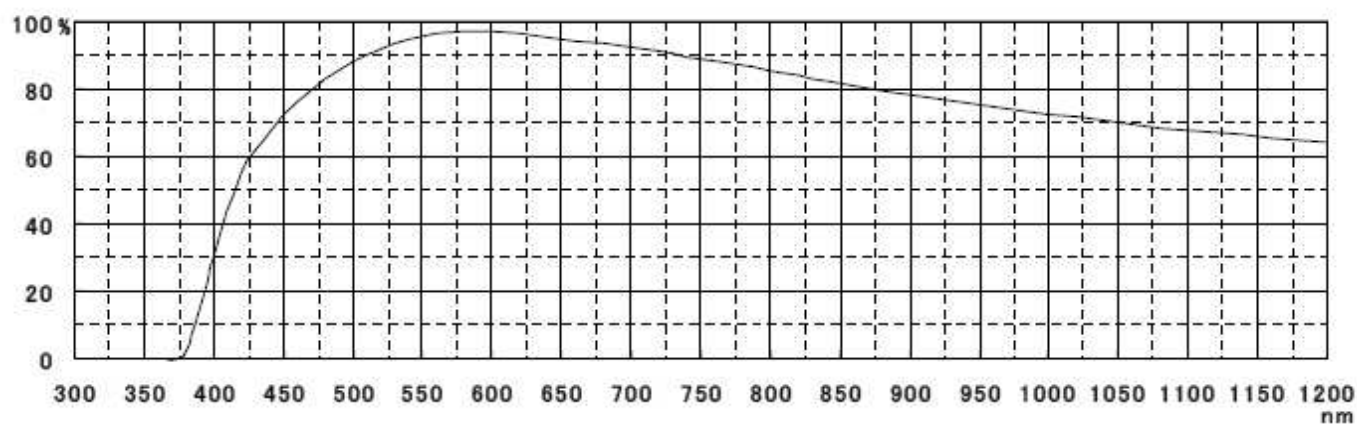
●Distortion (歪曲収差)



●Vignetting (周辺光量)



●Spectral Transmittance (分光透過率)



●Resolving Power (解像力)

y	0	4.76	6.35	7.94		
Rr(S)	200	25	20	20		
Rt(M)		25	40	10		

●Entrance Pupil Position (入射瞳位置)

-30.27 [mm] *

●Exit Pupil Position (射出瞳位置)

-30.81 [mm] *

●1st Principal Point (第一主点)

-25.59 [mm] *

●2nd Principal Point (第二主点)

-25.06 [mm] * (* : From Image Plane)



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