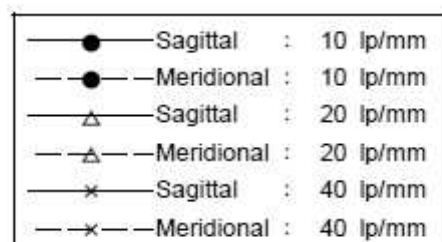
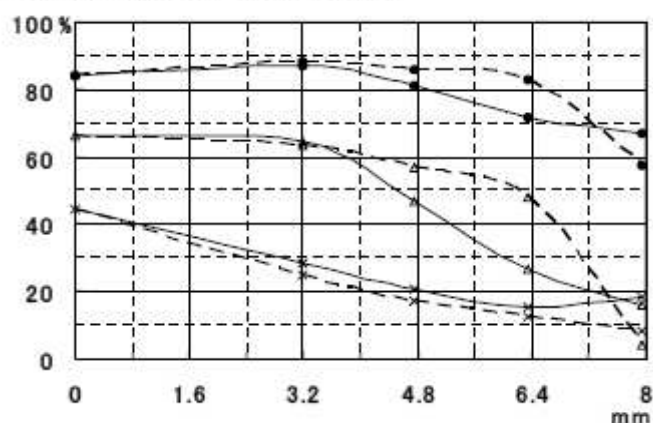
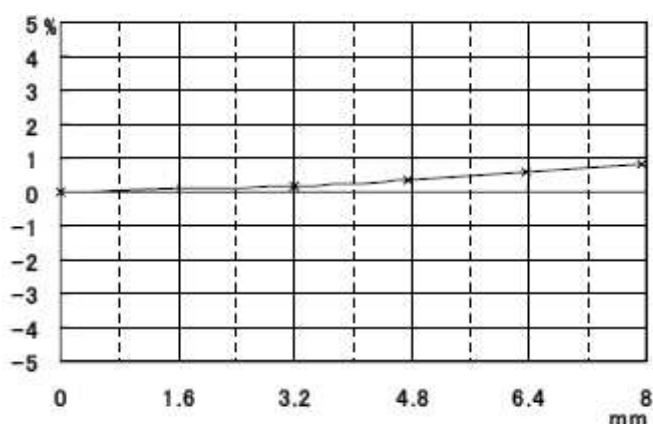


●Modulation Transfer Function (MTF)

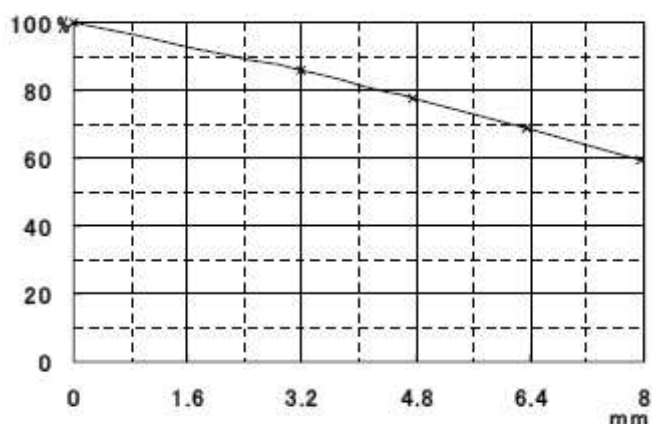


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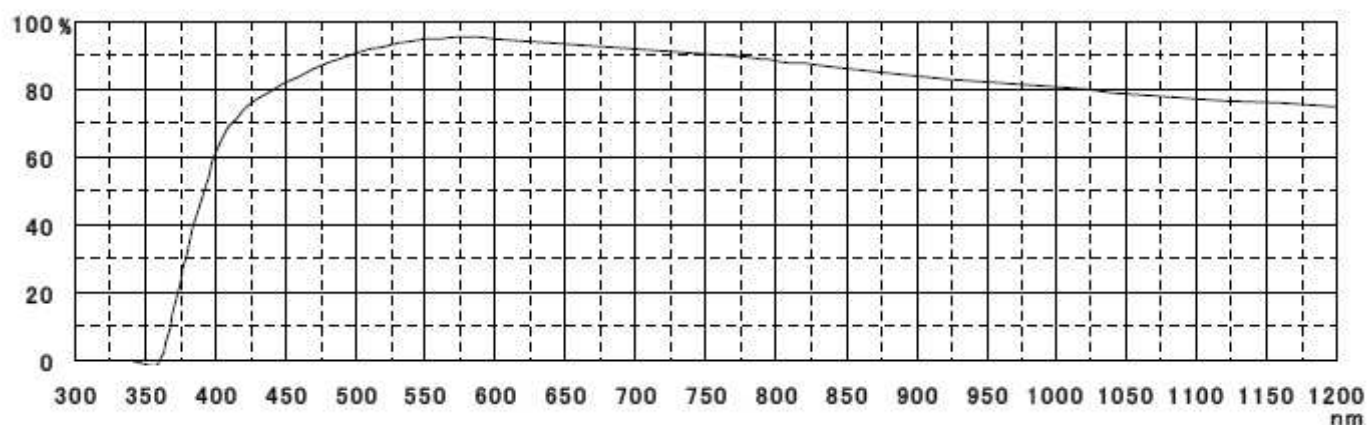
●Distortion (歪曲収差)



●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)	63	32	20	16		
Rt(M)		25	20	10		

●Entrance Pupil Position (入射瞳位置)

-8.09 [mm] *

●Exit Pupil Position (射出瞳位置)

-27.96 [mm] *

●1st Principal Point (第一主点)

-47.35 [mm] *

●2nd Principal Point (第二主点)

-49.94 [mm] * (*: From Image Plane)

SPEC. INFO	FL-BC5014A-VG RC SPEC.	3125020-S001-RC-B13
		Sep. 27, 2012

1. Model FL-BC5014A-VG

2. Application For 1 Format Camera

3. Specification

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

- | | |
|-----------------------|----------------------------|
| (1) Dimensions | ϕ 48mm $\times$ 48 mm |
| (2) Weight | 180g |
| (3) Mount | C-Mount (1 – 32 UN – 2A) |
| (4) Filter Screw Size | ϕ 46 mm , P = 0.75 mm |

3-2. Optical

- | | |
|-----------------------------|----------------------------|
| (1) Focal Length | 50 mm $\pm$ 5% |
| (2) Max. Aperture Ratio | 1: 1.4 |
| (3) Iris Range | F / 1.4 to F / 16 to Close |
| (4) Angle of View | Diagonal 17.93° |
| | Horizontal 14.41° |
| | Vertical 10.85° |
| (5) Picture format | 12.7 mm $\times$ 9.5 mm |
| (6) Minimum Object Distance | 1.0 m |
| (7) Back Focal Length | 18.05 mm |
| (8) Flange Back Length | 17.526 mm $\pm$ 0.05 mm |

3-3. Mechanical

- | | |
|------------------------|---|
| (1) Focusing Mechanism | Straight Helicoid |
| | Rotation Angle 221.7° |
| | Rotation Torque 0.98N·cm to 6.0 N·cm |
| | Focus Ring can be fixed at any positions by 3 fixing screws (A) or 1 thumb screw (refer to external view) |
| (2) Iris Mechanism | Non-click, Close-down |
| | Rotation Angle 96° |
| | Rotation Torque 0.98N·cm to 7.0 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

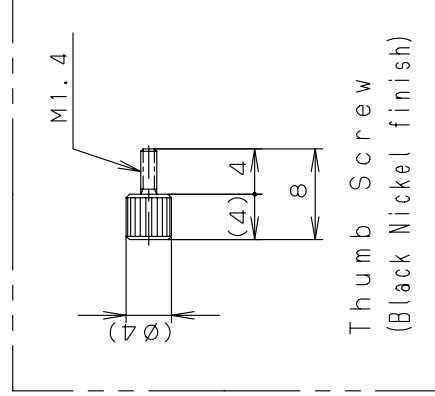
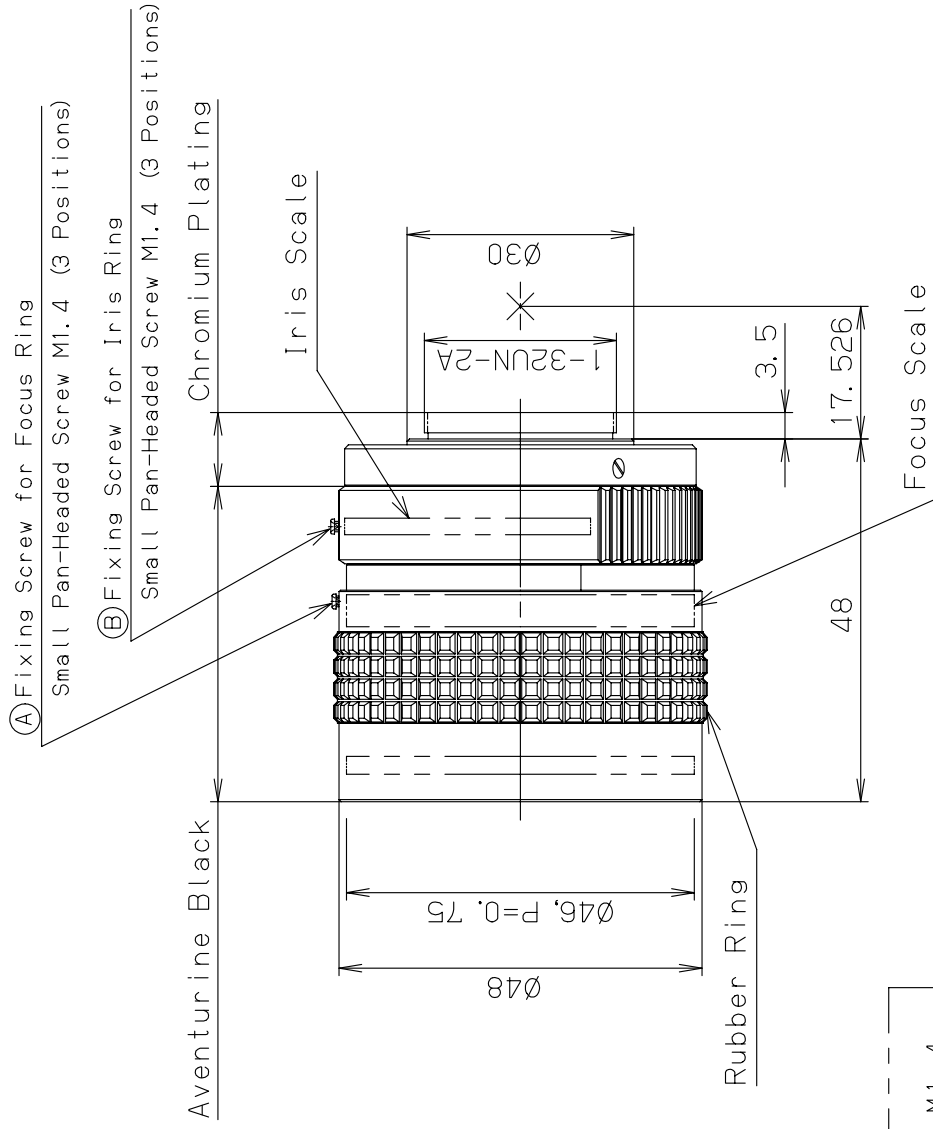
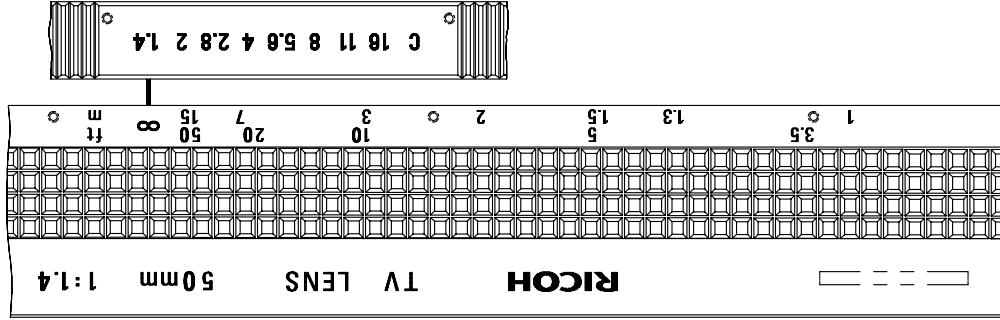
Tester	Shock Testing Machine by Dropping
Impact Force	588 m/s ²
Duration of Shock	3.5 ms
Directions & Number of Times	1 Time Respectively in Three Dimensional Directions

SPEC. INFO	FL-BC5014A-VG RC SPEC.	3125020-S001-RC-B23
		Sep. 27, 2012

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	



SPEC. INFO		FL-BC5014A-VG
3125020-S001-RC-B33		
Sep. 27. 2012		
RICOH		



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