

FL-CC5024A-2M

f=50mm F1.4

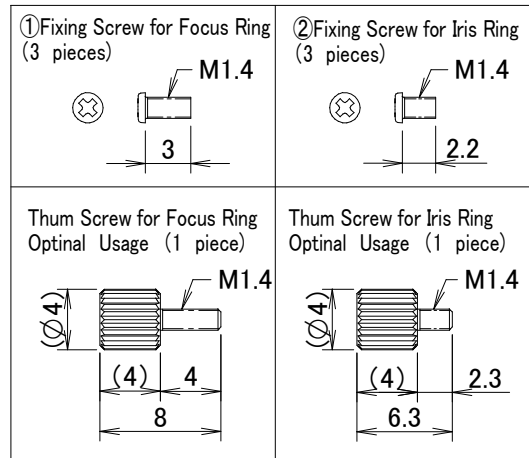
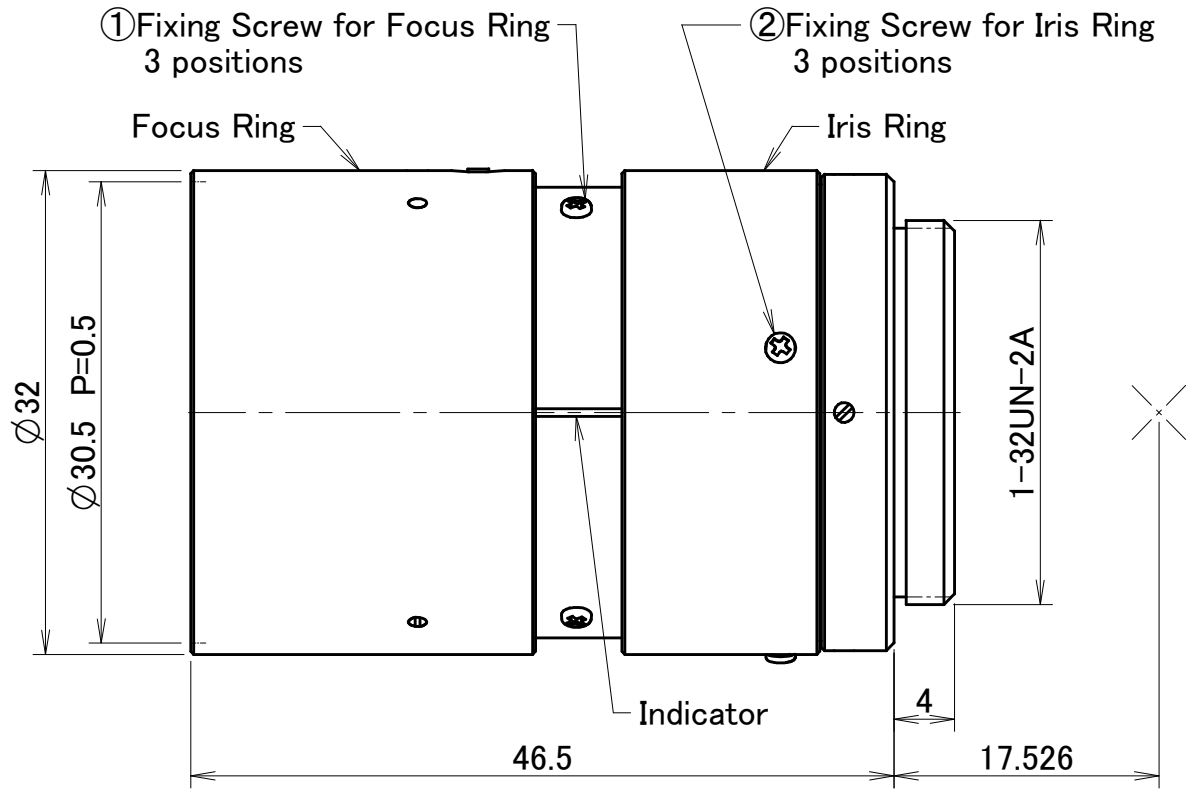
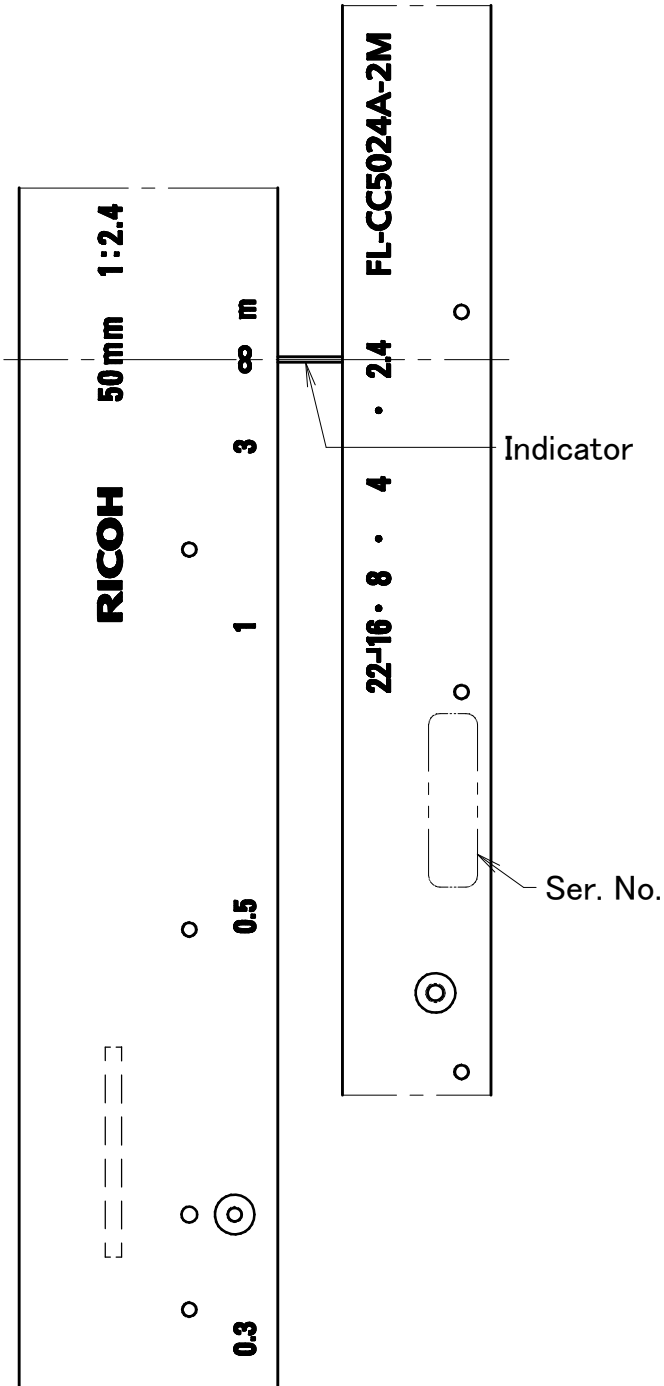
				Date Drawn	Checked Nuno	Approved
				Oct. 10. 2013	Drawn Koguchi	Naoe
No.	Revisions	by	Date			

1. Model	FL-CC5024A-2M
2. Application	For 2/3 Format Camera
3. Specification	
3-1. Physical (As per the attached drawing)	
(1) Dimensions	$\phi 32.0 \text{ mm} \times 46.5 \text{ mm}$
(2) Weight	66 g
(3) Mount	C-Mount (1 - 32 UN - 2A)
(4) Filter Screw Size	$\phi 30.5 \text{ mm}$, P = 0.5 mm
3-2. Optical	
(1) Focal Length	50 mm $\pm 5\%$
(2) Max. Aperture Ratio	1: 2.4
(3) Iris Range	F / 2.4 to F / 22
(4) Angle of View	Diagonal 12.8° Horizontal 10.3° Vertical 7.7°
(5) Picture format	8.8 mm \times 6.6 mm
(6) Focusing Range	Inf. to 0.3 m
(7) Back Focal Length	22.3 mm (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 309° Rotation Torque 0.2N·cm to 7.0 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 92° Rotation Torque 0.01N·cm to 3.0 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

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

4. Accessories

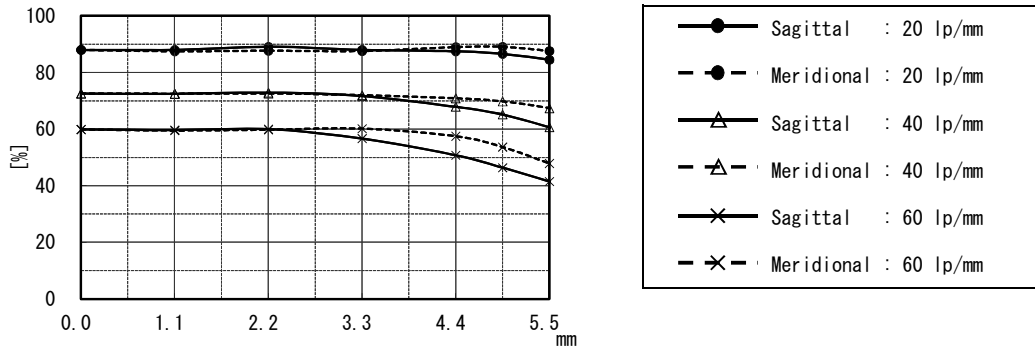
(1) Front Lens Cap	1 piece	
(2) Rear Lens Cap	1 piece	
(3) Fixing Screw ① for Focus Ring	3 pieces	
(4) Fixing Screw ② for Iris Ring	3 pieces	
(5) Thumbscrew for Focus Ring	1 pieces	(for Optional Usage)
(6) Thumbscrew for Iris Ring	1 pieces	(for Optional Usage)
(7) Packing Box	1 piece	



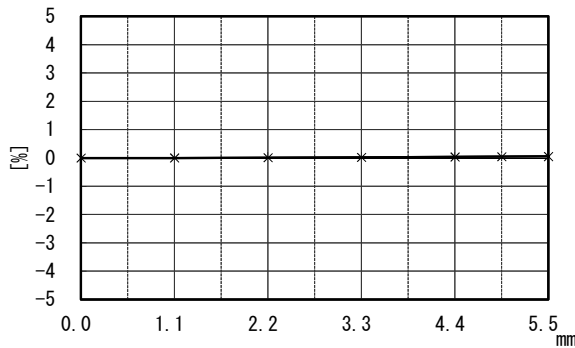
SPEC. SHEET	FL-CC5024A-2M
	K65384-X001-B44
RICOH	Oct.10.2013

● Modulation Transfer Function (MTF)

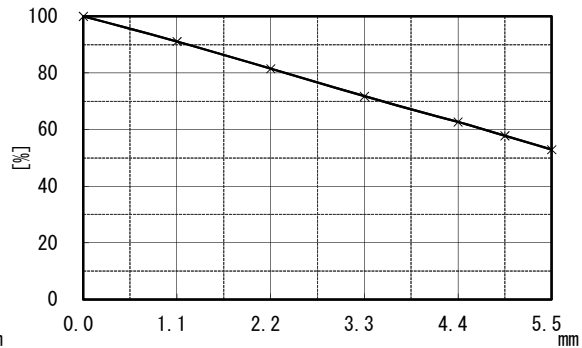
W. D. = 300mm



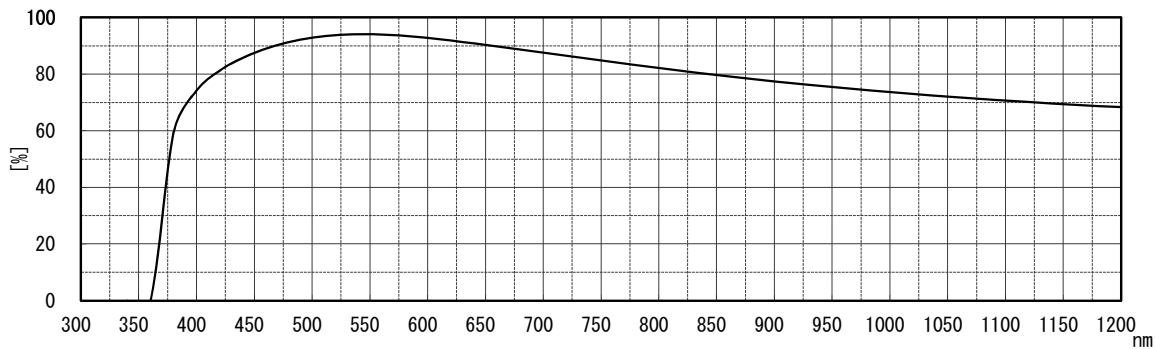
● Distortion (歪曲収差)



● Vignetting (周辺光量)



● Spectral Transmittance (分光透過率)



- Entrance Pupil Position (入射瞳位置) -4.20 [mm]*
- Exit Pupil Position (射出瞳位置) -28.29 [mm]*
- 1st Principal Point (第一主点) -39.45 [mm]*
- 2nd Principal Point (第二主点) -48.75 [mm]*

(*:From Image Plane, W.D.=∞)



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