

For Machine Vision

C 1 6 1 4 — M

1 6 m m 1 : 1 . 4

(K P S P E C .)

1. Model	C 1614-M
2. Application	For Machine Vision 2/3 Format Mega-pixel Camera
3. Specification	
3-1. Physical (As per the attached drawing)	
(1) Dimensions	ϕ 29.5 mm $\times$ 33.2 mm
(2) Weight	63 g
(3) Mount	C-Mount (1 – 32 UN – 2A)
(4) Filter Screw Size	ϕ 27 mm , P = 0.5 mm
3-2. Optical	
(1) Focal Length	16 mm $\pm$ 5%
(2) Max. Aperture Ratio	1 : 1.4
(3) Iris Range	F / 1.4 to F / 16
(4) Angle of View	Diagonal 38.28° Horizontal 30.97° Vertical 23.41°
(5) Picture format	8.8 mm $\times$ 6.6 mm
(6) Focusing Range	Inf. to 0.25m
(7) Back Focal Length	14.61 mm
(8) Flange Back Length	17.526 mm $\pm$ 0.05 mm
3-3. Mechanical	
(1) Focusing Mechanism	Straight Helicoid Rotation Angle 154.3° Rotation Torque 0.2 N·cm to 7.0 N·cm Focus Ring can be fixed at any positions by 3 fixing screws ① (refer to external view)
(2) Iris Mechanism	Non-click Rotation Angle 89.3° Rotation Torque 0.5 N·cm to 7.0 N·cm Iris Ring can be fixed at any positions by 3 fixing screws ② (refer to external view)

				Approved	Checked	Drawn	Drawing Title
							SPEC. SEET
No.	Revisions	Date	By				
PENTAX Precision Co.,Ltd.				Data Drawn	Drawing Number		
				JUL. 11, '03	31634-X001-00KP-B13		

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

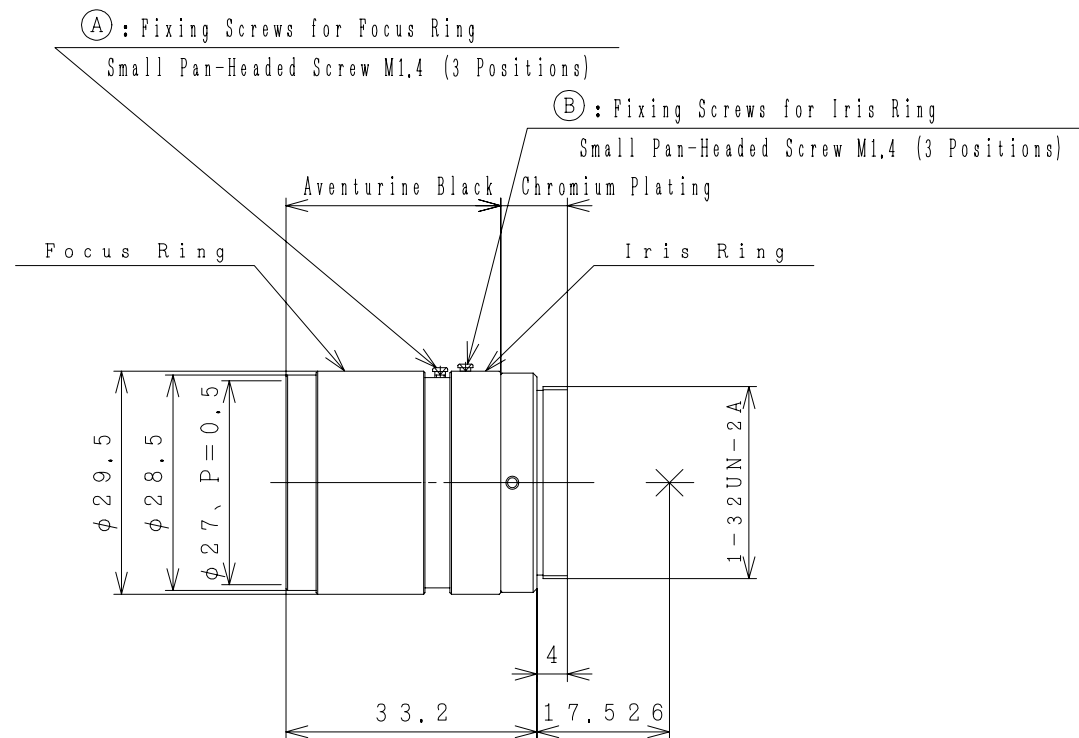
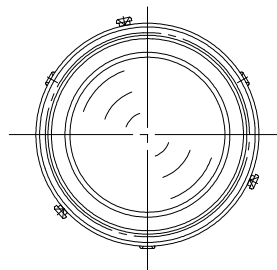
Tester	Shock Testing Machine by Dropping
Impact Force	588 m/s ²
Duration of Shock	3.5 ms
Directions & Number of Times	1 Time Respectively in Three Dimensional Directions

3-5. Environmental Temperature Range -20°C to +50°C

4. Accessories

- | | |
|--|------------------------------|
| (1) Front Lens Cap | 1 piece |
| (2) Rear Lens Cap | 1 piece |
| (3) Fixing Screw for Focus Ring
(Thumbscrew M1.4) | 1 piece (For Optional Usage) |
| (4) Fixing Screw for Iris Ring
(Thumbscrew M1.4) | 1 piece (For Optional Usage) |
| (5) Packing Box | 1 piece |

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COSMICAR / PENTAX TV LENS 16 mm 1:1.4 MADE IN JAPAN

0.25 0.3 0.5 1 ∞ m

16 $\cdot$ 8 $\cdot$ 4 $\cdot$ 2 1.4 C1614-M

UNIT : mm

$\triangle 3$				尺度	個数	
$\triangle 2$				N. T. S.		
$\triangle 1$				名称	C 1 6 1 4 - M 16 mm 1 : 1.4 External View	
	訂正	記事	年月日	担当	図面番号 31634 - X001 - 00KP - B33	
承認	設計	製図	検図	完図 JUL. 11. '03 年月日	PENTAX Precision Co., Ltd.	