

For Machine Vision

H 1 2 1 4 — M

1 2 m m 1 : 1 . 4

(K P S P E C .)

1. Model H 1214-M
 2. Application For Machine Vision 1/2 Format Mega-pixel Camera

3. Specification

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

- (1) Dimensions $\phi 29.5 \text{ mm} \times 28.5 \text{ mm}$
- (2) Weight 55 g
- (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 12 mm $\pm 5\%$
- (2) Max. Aperture Ratio 1 : 1.4
- (3) Iris Range F / 1.4 to F / 16
- (4) Angle of View
 - Diagonal 35.69°
 - Horizontal 28.91°
 - Vertical 21.88°
- (5) Picture format 6.4 mm \times 4.8 mm
- (6) Focusing Range Inf. to 0.25m
- (7) Back Focal Length 11.50 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 [Ⓐ] (refer to external view)
- (2) Iris Mechanism
 - Non-click
 - Rotation Angle 85.2°
 - Rotation Torque 0.5 N·cm to 7.0 N·cm
 - Iris Ring can be fixed at any positions by 3 fixing screws [Ⓑ] (refer to external view)

				Approved	Checked	Drawn	Drawing Title
							SPEC. SEET
No.	Revisions	Date	By				
PENTAX Precision Co.,Ltd.				Data Drawn JUL. 11, '03	Drawing Number 61232-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

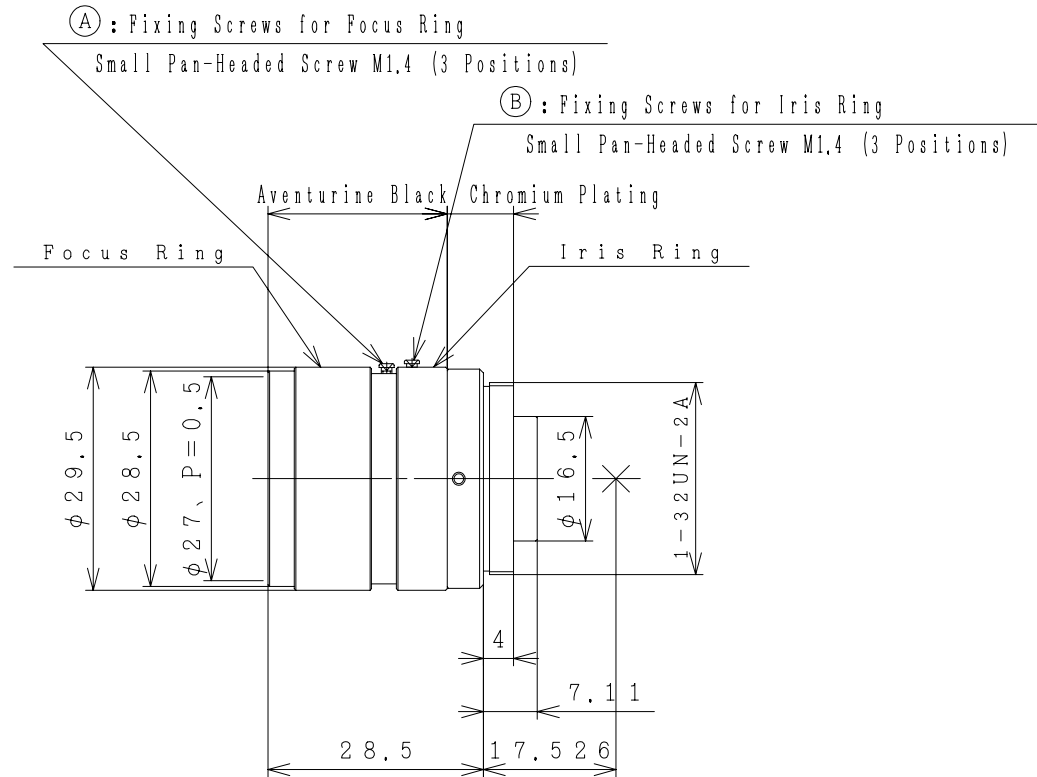
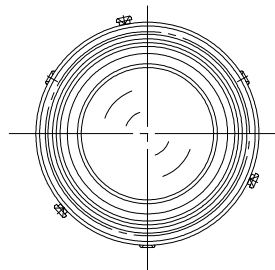
Tester	Shock Testing Machine by Dropping
Impact Force	588 m/s ²
Duration of Shock	3.5 ms
Directions & Number of Times	1 Time Respectively in Three Dimensional Directions

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 12 mm 1:1.4 MADE IN JAPAN
0.25 0.5 1 ∞ m

16-1.8 · 4 · 2 1.4 H1214-M

UNIT : mm

③				尺度	個数	
②				N. T. S.		
①				名称		
訂正記事				年月日	担当	H1214-M
承認	設計	製図	検図	完図		12mm 1:1.4
				JUL. 11.'03		External View
				年月日		図面番号
						61232-X001-00KP-B33
PENTAX Precision Co., Ltd.						