

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  $\phi$  29.5 mm  $\times$  33.2 mm
- (2) Weight 63 g
- (3) Mount C-Mount (1 – 32 UN – 2A)
- (4) Filter Screw Size  $\phi$  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 <sup>Ⓐ</sup>
  - (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 <sup>Ⓑ</sup>
  - (refer to external view)

				Approved	Checked	Drawn	Drawing Title
							SPEC. SEET
No.	Revisions	Date	By	Data Drawn		Drawing Number	
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### 3-4. Vibration & Shock Test Standard

#### (1) Vibration Conditions

Wave	Sine Wave
Acceleration	1.96 m/s <sup>2</sup> to 59.78 m/s <sup>2</sup>
Cycle Range	10 Hz to 55 Hz
Cycle Period	3 Minutes
Duration of Vibration	120 Minutes Respectively in Three Dimensional Directions

#### (2) Shock Conditions

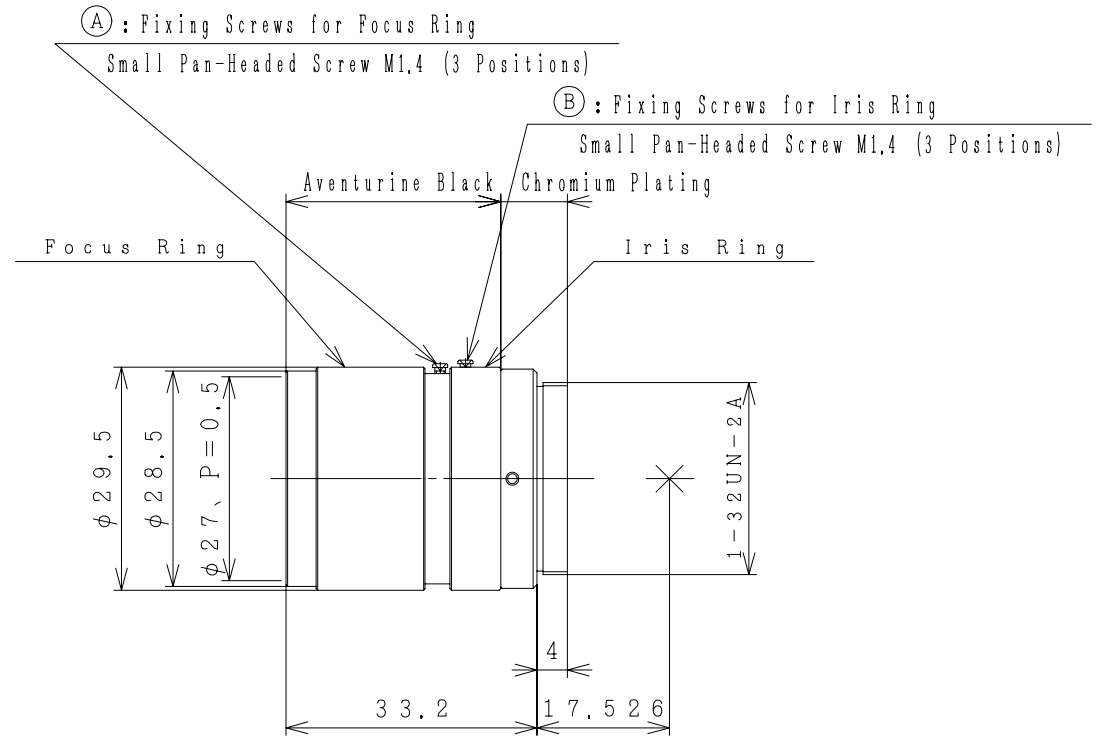
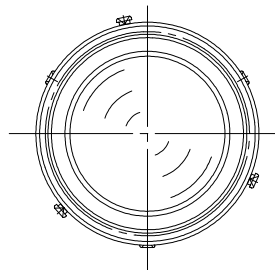
Tester	Shock Testing Machine by Dropping
Impact Force	588 m/s <sup>2</sup>
Duration of Shock	3.5 ms
Directions & Number of Times	1 Time Respectively in Three Dimensional Directions

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<br>(Thumbscrew M1.4) | 1 piece (For Optional Usage) |
| (4) Fixing Screw for Iris Ring<br>(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     $\infty$     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		
訂正記事				年月日	担当	C1614-M
承認	設計	製図	検図	完図		16mm 1:1.4
				JUL. 11.'03		External View
				年月日		図面番号
						31634-X001-00KP-B33
<b>PENTAX Precision Co., Ltd.</b>						