

For Machine Vision

C 2514 — M

25 mm 1:1.4

( K P S P E C . )

1. Model C 2514-M
2. Application For Machine Vision 2/3 Format Mega-pixel Camera
3. Specification
- 3-1. Physical (As per the attached drawing)
- (1) Dimensions  $\phi 29.5 \text{ mm} \times 32 \text{ mm}$
  - (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 25 mm  $\pm 5\%$
  - (2) Max. Aperture Ratio 1 : 1.4
  - (3) Iris Range F / 1.4 to F / 16
  - (4) Angle of View
    - Diagonal 24.89°
    - Horizontal 20.00°
    - Vertical 15.05°
  - (5) Picture format 8.8 mm  $\times$  6.6 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 148.2°
    - 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 94.3°
    - 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				
<b>PENTAX Precision Co.,Ltd.</b>				Data Drawn JUL. 11, '03		Drawing Number 32500-X001-00KP-B13	

### 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

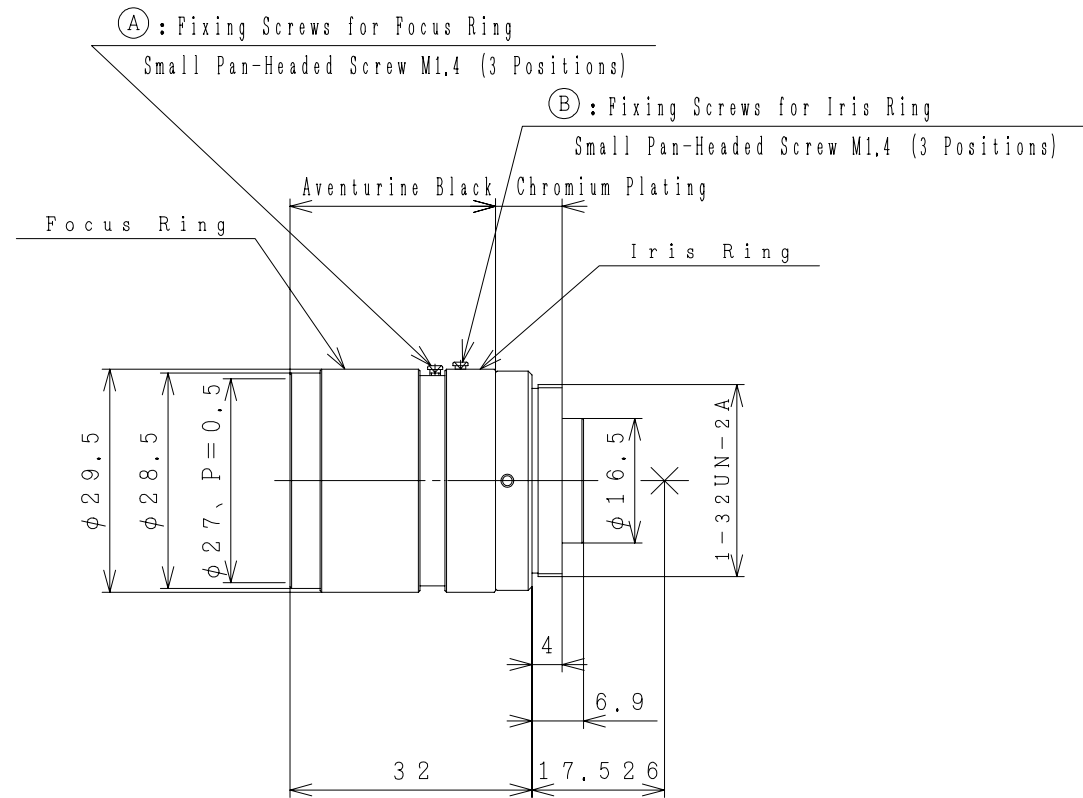
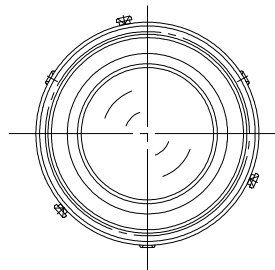
Tester	Shock Testing Machine by Dropping
Impact Force	588 m/s <sup>2</sup>
Duration of Shock	3.5 ms
Directions & Number of Times	1 Time Respectively in Three Dimensional Directions

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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<b>COSMICAR / PENTAX</b>							TV LENS	25 mm	1:1.4	MADE IN JAPAN
0.25	0.3	0.5	1	∞	m					

16-J · 8 · 4 · 2    1.4    C2514-M

UNIT : mm

3					尺度	個数	
2					N. T. S.		
1					名称		
訂正記事				年月日	担当	C 2 5 1 4 - M	
承認	設計	製図	検図	完図	25 mm 1 : 1.4		
				JUL. 11. '03	External View		
				年月日	図面番号		
					32500 - X001 - 00KP - B33		
<b>PENTAX Precision Co., Ltd.</b>							