

For Machine Vision

C5028-M

50mm 1:2.8

( K P S P E C . )

1. Model	C5028-M
2. Application	For Machine Vision 2/3 Format Mega-pixel Camera
3. Specification	
3-1. Physical (As per the attached drawing)	
(1) Dimensions	$\phi 29.5 \text{ mm} \times 34.0 \text{ mm}$
(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	50 mm $\pm 5\%$
(2) Max. Aperture Ratio	1 : 2.8
(3) Iris Range	F / 2.8 to F / 22
(4) Angle of View	Diagonal            12.53° Horizontal        10.05° Vertical            7.55°
(5) Picture format	8.8 mm $\times$ 6.6 mm
(6) Focusing Range	Inf. to 0.9m
(7) Back Focal Length	21.03 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 (A) (refer to external view)
(2) Iris Mechanism	Non-click Rotation Angle        81.5° Rotation Torque      0.5 N·cm to 7.0 N·cm Iris Ring can be fixed at any positions by 3 fixing screws (B) (refer to external view)

				Approved	Checked	Drawn	Drawing Title
							SPEC. SEET
No.	Revisions	Date	By				
<b>PENTAX Precision Co.,Ltd.</b>				Data Drawn	Drawing Number		
				JUL. 11, '03	35001-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

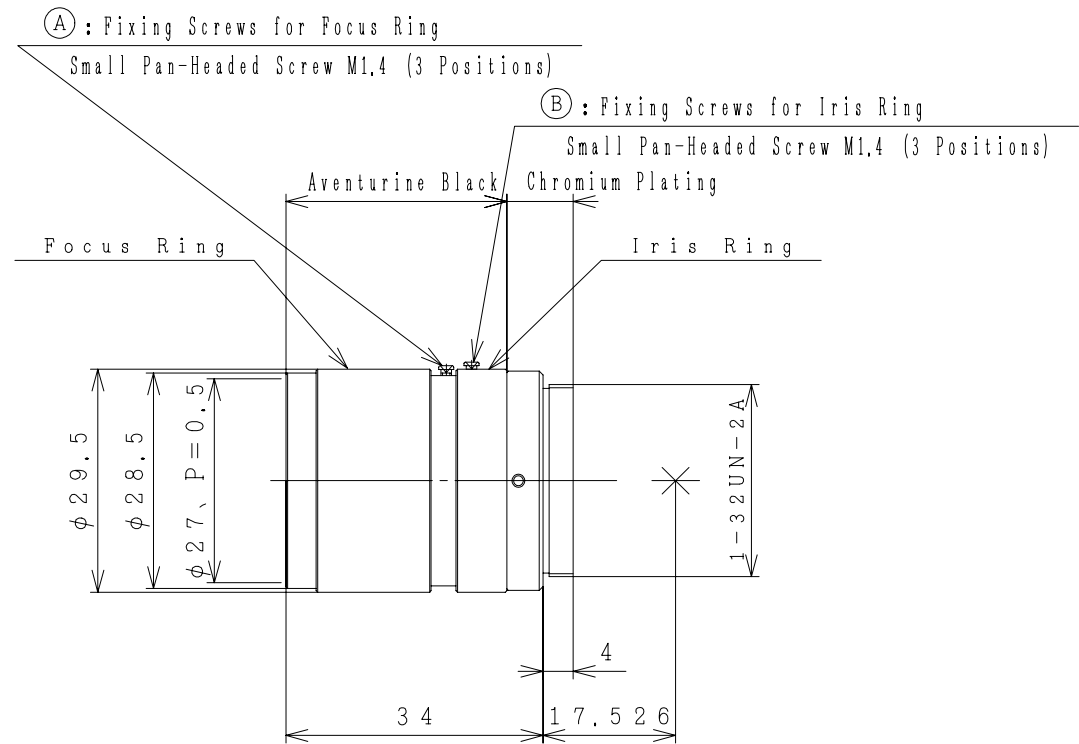
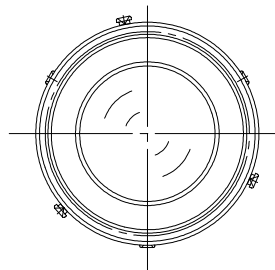
Tester	Shock Testing Machine by Dropping
Impact Force	588 m/s <sup>2</sup>
Duration of Shock	3.5 ms
Directions & Number of Times	1 Time Respectively in Three Dimensional Directions

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	50 mm	1:2.8	MADE IN JAPAN
0.9	1	1.5	3	∞	m				

22-16 · 8 · 4 2.8 C5028-M

UNIT : mm

3					尺度	個数	
2					N. T. S.		
1					名称		
訂正記事				年月日	担当	C5028-M	
承認	設計	製図	検図	完図	50mm 1:2.8		
				JUL. 11.'03	External View		
				年月日	図面番号		
					35001-X001-00KP-B33		
<b>PENTAX Precision Co., Ltd.</b>							