

For Machine Vision

C 5 0 2 8 — M

5 0 m m 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 ㉠ (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 ㉡ (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	35001-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

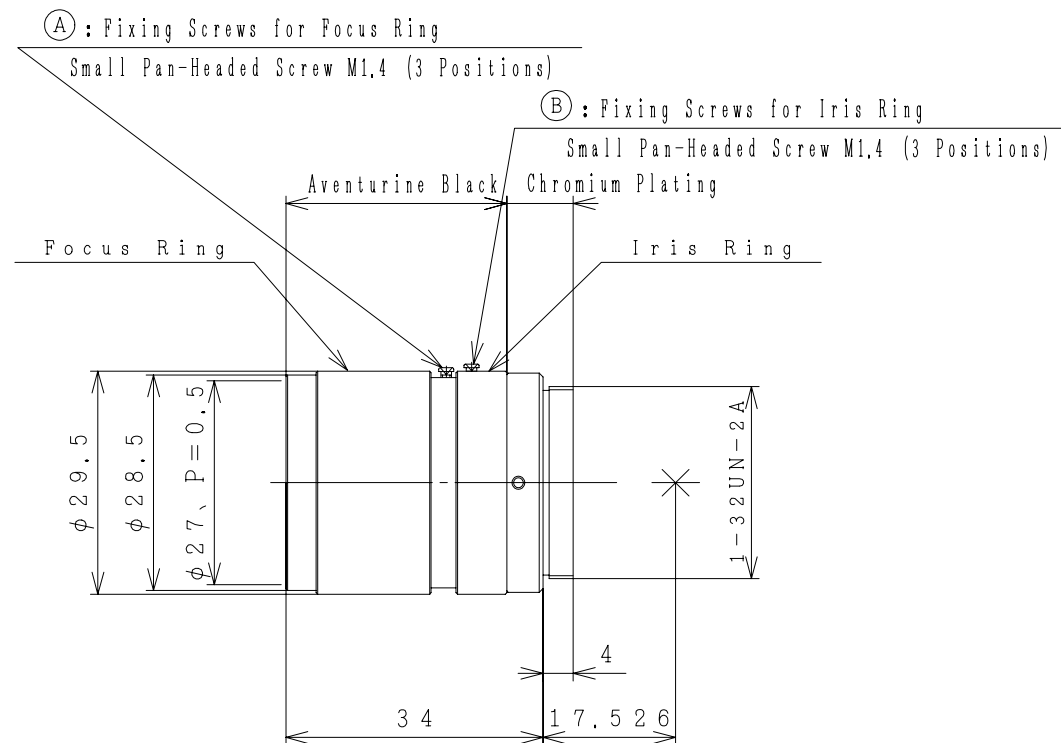
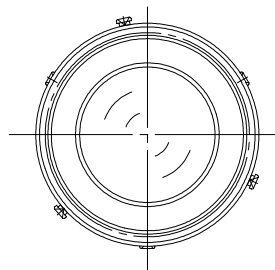
3-5. Environmental Temperature Range -20°C to $+50^{\circ}\text{C}$

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 |

				Approved	Checked	Drawn	Drawing Title
							SPEC. SEET
No.	Revisions	Date	By	Data Drawn		Drawing Number	
				JUL. 11, '03		35001-X001-00KP-B23	

PENTAX Precision Co.,Ltd.



COSMICAR / PENTAX		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

				尺度	個数	
				N. T. S.		
				名称	C 5 0 2 8 - M 5 0 mm 1 : 2 . 8 External View	
	訂	正	記	事	年月日	担当
承認	設計	製図	検図	完図	JUL. 11. ' 03 年 月 日	
PENTAX Precision Co., Ltd.						
					図面番号	35001 - X001 - 00KP - B33