

For Machine Vision

C 3 5 1 6 — M

3 5 m m 1 : 1 . 6

(K P S P E C .)

1. Model	C 3516-M
2. Application	For Machine Vision 2/3 Format Mega-pixel Camera
3. Specification	
3-1. Physical (As per the attached drawing)	
(1) Dimensions	$\phi 29.5 \text{ mm} \times 35.4 \text{ mm}$
(2) Weight	64 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	35 mm $\pm 5\%$
(2) Max. Aperture Ratio	1 : 1.6
(3) Iris Range	F / 1.6 to F / 16
(4) Angle of View	Diagonal 18.39° Horizontal 14.76° Vertical 11.10°
(5) Picture format	8.8 mm \times 6.6 mm
(6) Focusing Range	Inf. to 0.4m
(7) Back Focal Length	11.85 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 92.4° 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				
PENTAX Precision Co.,Ltd.				Data Drawn JUL. 11, '03	Drawing Number 33500-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

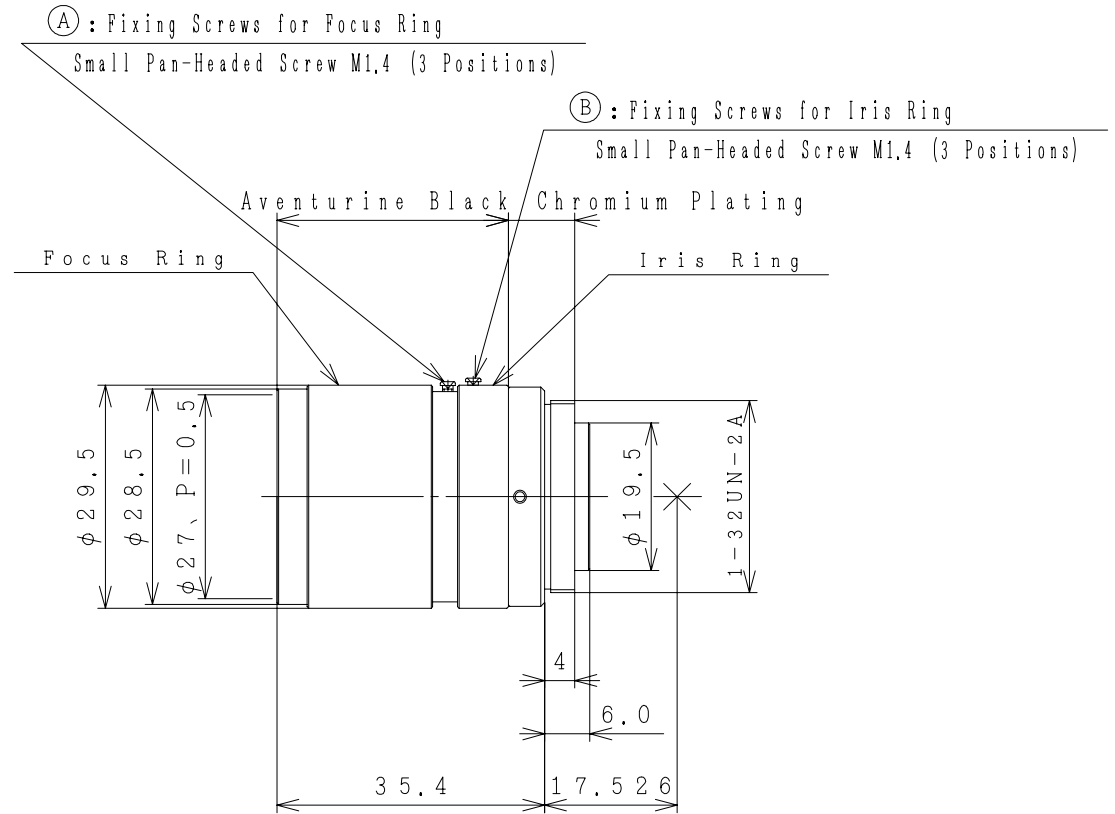
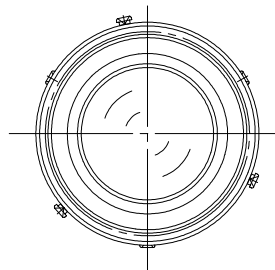
Tester	Shock Testing Machine by Dropping
Impact Force	588 m/s ²
Duration of Shock	3.5 ms
Directions & Number of Times	1 Time Respectively in Three Dimensional Directions

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	35 mm	1:1.6	MADE IN JAPAN		
0.4	0.5	0.7	1	2	∞	m

16⁻¹ · 8 · 4 · 2 1.6 C3516-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 3 5 1 6 - M
承認	設計	製図	検図	完図		35 mm 1 : 1.6
				JUL. 11. '03		External View
				年月日		図面番号
						33500 - X001 - 00KP - B33
PENTAX Precision Co., Ltd.						