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(H R S P E C .)



1. Model C1614ER

2. Application For 2/3 Format CCTV Camera

3. Specification

3-1. Physical (As per the attached drawing)

(1) Dimensions 46.5 (W) × 50.5 (H) × 46.7 (D) mm

(2) Weight 110g

(3) Mount C-Mount (1-32UN-2A) Position Adjustable

(4) Filter Screw Size  $\phi$  43mm, P=0.75mm

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 / 360

(4) Illumination Ratio 1:66,000

(5) Angle of View  
 Diagonal 38.25°  
 Horizontal 30.73°  
 Vertical 23.19°

(6) Picture format 8.8mm × 6.6mm

(7) Minimum Object Distance Inf. to 0.5m

(8) Back Focal Length 14.50 mm

(9) Flange Back Length 17.526 mm  $\pm$ 0.05mm

3-3. Mechanical

(1) Focusing Mechanism Straight Helicoid  
 Rotation Angle 58°  
 Rotation Torque 0.98 N·cm to 3.92 N·cm

3-4. Electrical

(1) Iris

① Auto Iris

1. Supply Voltage & Current DC 8 V to 15 V 45 mA or less

2. Input Signal V or VS

3. Iris Accuracy  $\pm$ 20 % at V signal level

4. Sensitivity Adjustment 0.5 V(p-p) to 1.0 V(p-p) at V signal level continuously adjustable

5. Input Impedance High Impedance

6. Response Speed 1.5 sec. (approx.)

7. Metering Average to Peak continuously adjustable (adjusted at Average when delivered)

8. Close Down Iris closes down when the power is cut off and protects Image Sensor from strong light.

② Manual

1. Control Voltage & Current DC 1.5V to 5.5V 0.3mA or less

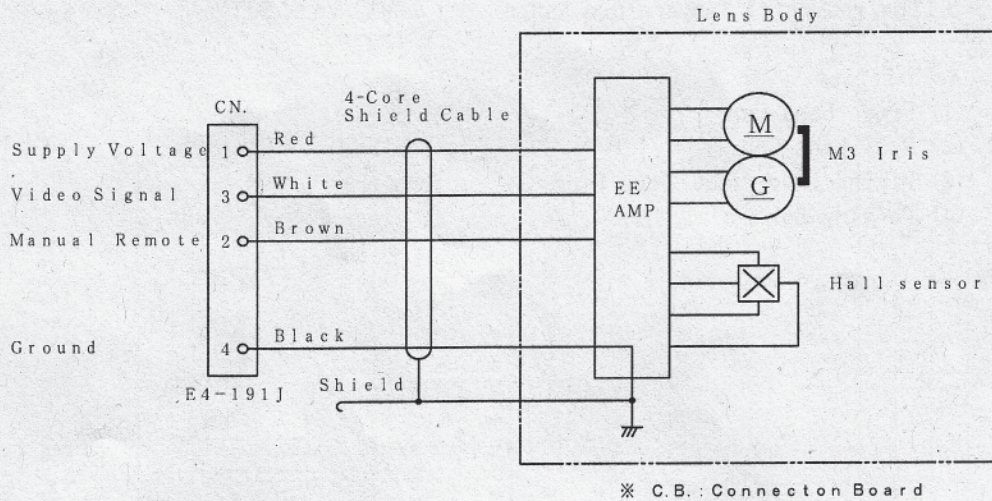
2. Close Down Iris closes down when the power is cut off and protects Image Sensor from strong light.

(2) Connector E4-191J made by Chuomusen

				Approved	Checked	Drawn	Drawing Title
							SPEC. SEET
No.	Revisions	Date	By				
<b>PENTAX Precision Co.,Ltd.</b>				Data Drawn	Drawing Number		
				APR. 23, ' 03	31631-X001-00HR-B14		

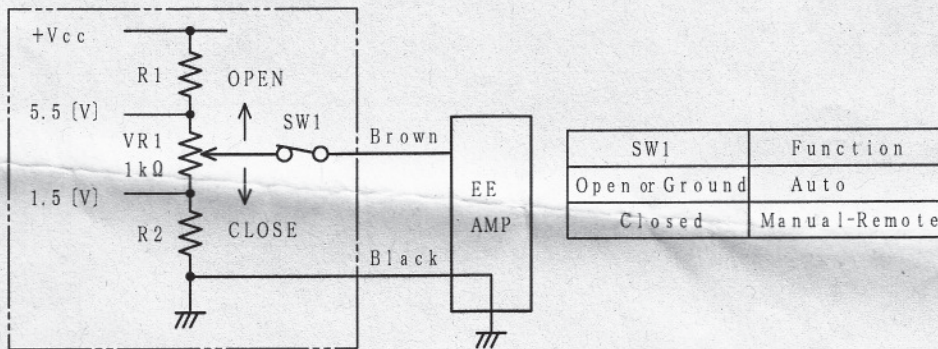


(3) Connection for Auto Iris



(4) "Manual-Remote" Control

Remote" Control can be done by the connection shown in the figure



\* Vcc represents supply voltage from controller.

3-5. 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

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							SPEC. SEET
No.	Revisions	Date	By	Data Drawn		Drawing Number	
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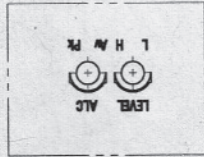
3-6. Environmental Temperature Range       $-20^{\circ}\text{C}$  to  $+50^{\circ}\text{C}$

4. Accessories

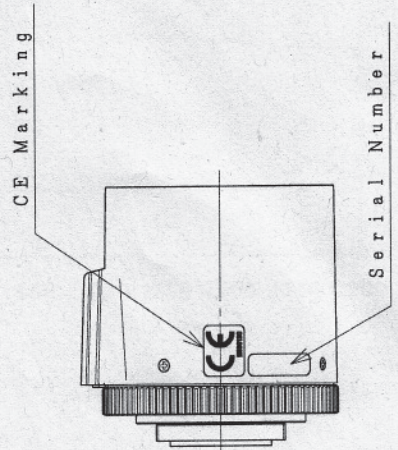
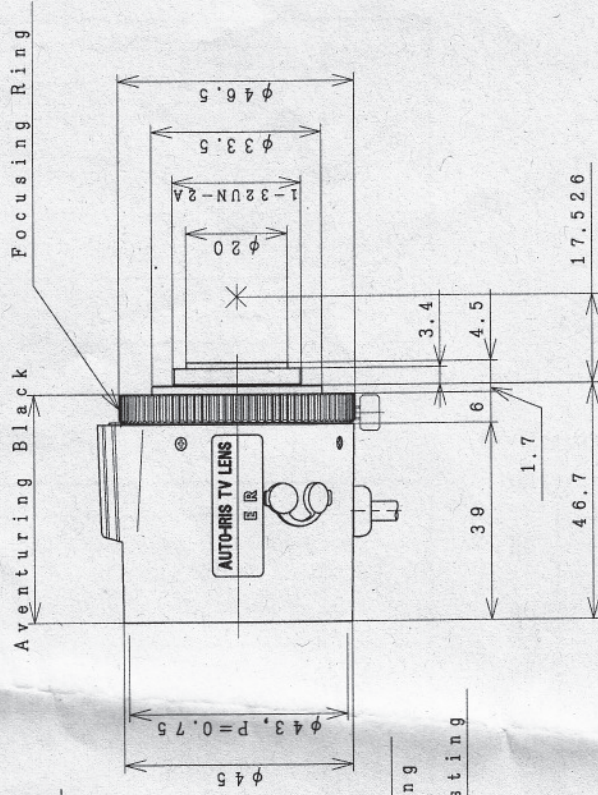
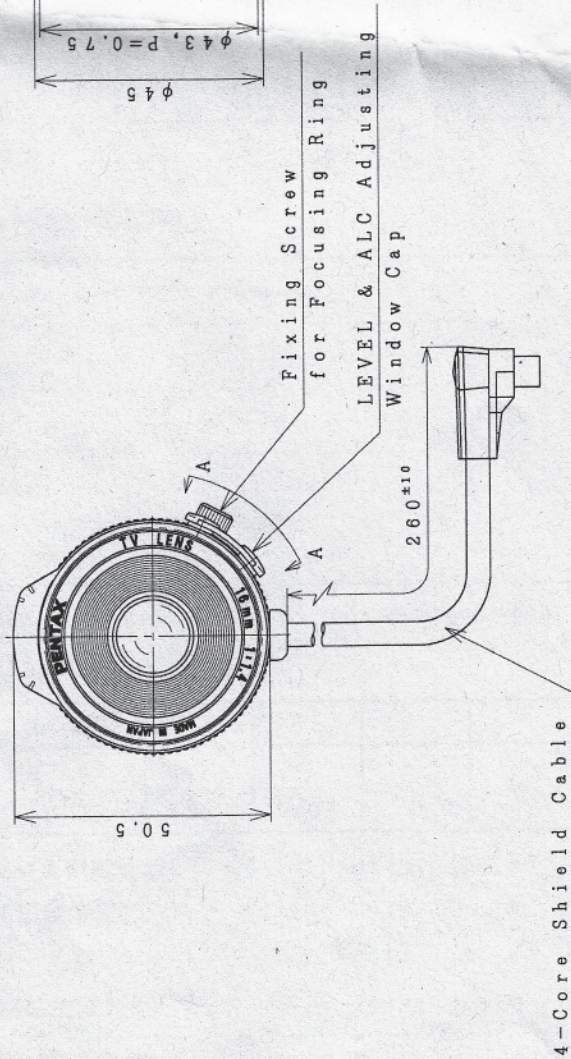
- |                                 |         |
|---------------------------------|---------|
| (1) Front Lens Cap              | 1 piece |
| (2) Rear Lens Cap               | 1 piece |
| (3) Fixing Lever for Focus Ring | 1 piece |
| (4) Packing Box                 | 1 piece |

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A-A (When Cap is off)



UNIT: mm

3	尺数	個数					
2	N.T.S.						
1	名称						
承認	設計	製図	検図	年月日	担当		
				完図			
				APR. 28. '03			
				年 月 日			
C1614ER 16mm F/1.4 External View 図面番号 31631-X001-00HR-B44							

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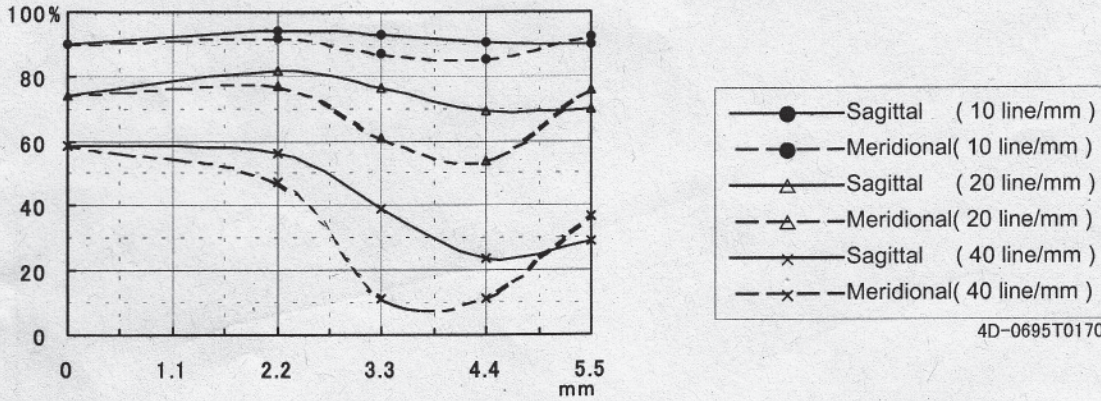
TECHNICAL DATA

C1614ER

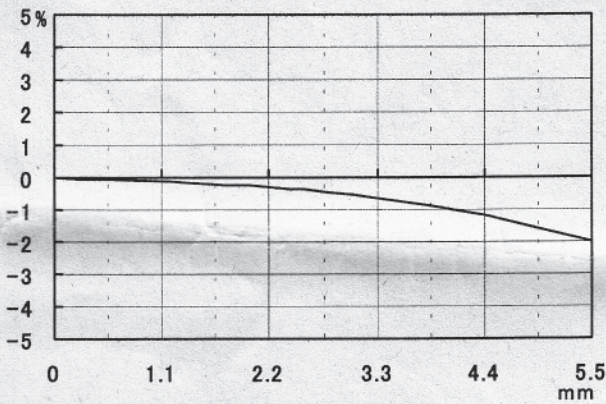
16mm 1:1.4

calculated

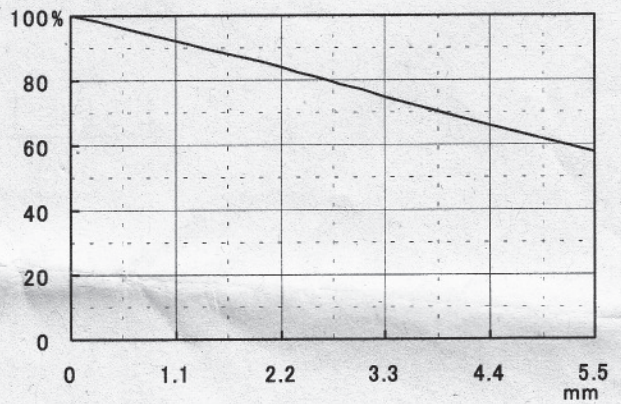
●Optical Transfer Function (OTF)



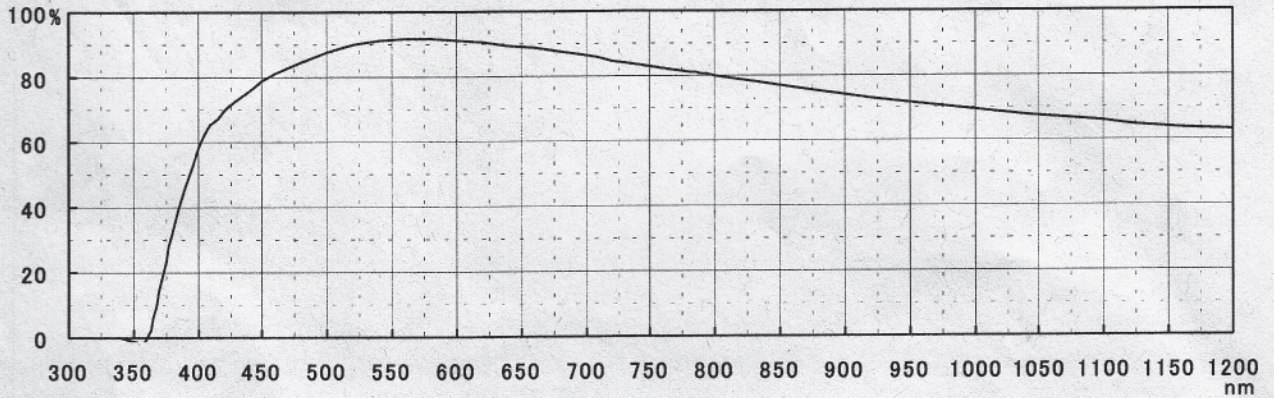
●Distortion (歪曲収差)



●Vignetting (周辺光量)



●Spectral Transmittance (分光透過率)



●Resolving Power (解像力)

y	0	3.3	4.4	5.5		
Rr(S)	80	50	32	40		
Rt(M)		25	25	40		

●Entrance Pupil Position (入射瞳位置)

-31.10 [mm] \*

●Exit Pupil Position (射出瞳位置)

-49.19 [mm] \*

●1st Principal Point (第一主点)

-20.24 [mm] \*

●2nd Principal Point (第二主点)

-16.18 [mm] \* (\* : From Image Plane)