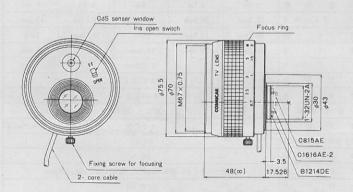
COSMICAR "EE" TYPE SERIES LENSES INSTRUCTIONS

This "EE" type Lens Series provides Auto-Iris Lenses of small size, light weight and high performance with the irises that shall automatically be adjusted to open and close through the CdS senser window depending upon variations of luminance of objects.

Different types of mono-focal lenses, i.e., wide angle, standard and telephoto lenses for 1" and 2/3" common vidicon cameras are available from this series.

All dimensions in mm





COSMICAR LENS DIVISION, ASAHI PRECISION CO., LTD.

2-5-2. HIGASHI-OIZUMI, NERIMA-KU, TOKYO, JAPAN

OFeatures

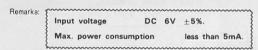
- 1.1 Small in size and light in weight with high performance.
- 1.2 Electrically noise-free thanks to a Galvanometer employed at the driving part.
- 1.3 Excellent iris response and low power consumption.
- 1.4 It has an iris-opening switch for focusing.
- 1.5 Against power stops or sudden exposures to high luminance of object, it shall protect vidicon tubes with the irises completely closing down.
- 1.6 Easy to handle because of its CdS senser window.
- 1.7 This series gives you the very advantages of selectivity and availability for the best applications.

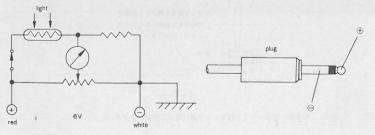
Corresponding values between F-number, Luminance and Illuminance of object.

F-number	1.4	2	2.8	4	5.6	8	11	16
Luminance of object LV	11	12	13	14	15	16	17	18
Illuminance of object lx	1,500	3,000	6,000	12,000	24,000	48,000	96,000	192,000

*Illuminances indicated in the above table are calculated at the reflectivity of 50% and are approximate.

@ Circuitry





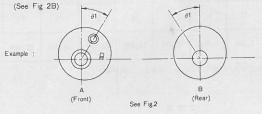
All How to mount the lens

- 4.1 Mount the main body of lens onto camera.
- 4.2 Be careful to mount the lens body so that the CdS senser window comes right uppermost. (See Fig. 1)

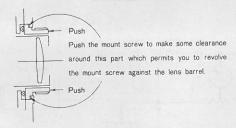


See Fig 1

- *When the CdS does not come so, try again to readjust as follows.
 - Face the front of the lens to see which side and approx, what degrees the CdS window is inclining at (See Fig. 2A)
- 2) Remove the lens body from camera.
- 3) Push the mount screw of the lens and turn the lens body towards the reverse side to recover the corresponding degrees that shall allow the CdS window to come right uppermost.



Also facing the front of the lens, if the CdS window is inclining to the left, turn the mount screw to the right facing the rear side of the lens.



4.3 Connect the plug of cable of the lens body to the power source on the camera.

6 Operation

- 5.1 Turn the camera switch ON.
- 5.2 Turn the iris-opening switch on the lens to OPEN, and the irises shall move to full open.
- 5.3 Revolve the focusing ring to adjust focusing.
- 5.4 After focused, turn iris-open switch towards EE direction and tighten the screw to fix the focusing ring.

@Specifications

Туре	B1214DE	B2514CE	B5018AE-2	C814BE	C1614AE-2				
Item Focal length	12.5mm	25mm	50mm	8mm	16mm				
Maximum aperture ratio	1:1.4	1:1.4	1 ; 1.8	1; 1.4	1; 1.4				
Range of iris index	1.4 to 16-close	1.4 to 16 -close	1.8 to 16-close	1.4to 16-close	1.4 to 16 -clos				
Receptive angle of light	60°	30°	24°	60°	30°				
Image format		12.7×9.525mm	8.8×6.6mm						
Angular field of view	65°48'	33°48′	17°52'	70° 30′	38°03′				
Shortest focusing distance	0.3m	0.7m	3m	0.2m	0.3m				
Back focal length	14.3mm	16.5mm	31.4mm	14.5 mm	13.2mm				
Front lens diameter	30.7mm	17.9mm	27mm	27.5 mm	14mm				
Rear lens diameter	14.2mm	14.2mm	15.5mm	15.4 mm	15.4mm				
Flange back length	17.526mm								
Input voltage		DC 6V·±5%							
Maximum power consumption	less than 5mA								
Range of ambient temperature		from -20°C to +50°C							
Iris accuracy	±1 LV								
Time to respond(to stabilize iris)	Approx. 1.5 second								
Illuminance of image surface	100 lx								
Adjustment of focusing	Straight back and forth helicoid: *Revolution angle: 128.7", *Revolution torque: 450 ± 200go								
Mount	C Mount								
Filter size	67 φ p=0.75								
Overall dimensions	75.5mm <i>φ</i> × 48mm(at ∞)								
Weight	290g	275g	295g	285g	265g				

*See FIGURE of APPEARANCE. (Page 1) *