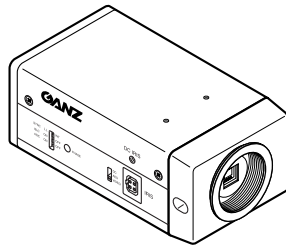


CS MOUNT B&W CAMERA

FC SERIES

INSTRUCTION MANUAL



■ CCIR VERSION
FOR 12VDC / 24VAC

STANDARD TYPE
FC-25C

HIGH-RESOLUTION TYPE
FCH-25C

■ CCIR VERSION
FOR 230VAC

STANDARD TYPE
FC-30C

HIGH-RESOLUTION TYPE
FCH-30C



ENGLISH
DEUTSCH
FRANCAIS
ITALIANO
ESPAÑOL
PORTUGUESE
POLSKIE
中国语

Thank you for your purchase of this product. Before operating the product, please read this instruction manual carefully to ensure proper use of the product. Please store this instruction manual in a safe place for future reference.

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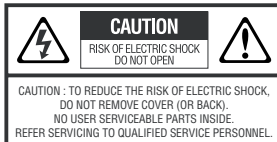
FEATURES

- Compact and Light weight design.
- Accepts DC or Video type auto-iris lenses.
- Impressive B/W reproduction.
- Line lock function with line phase adjustment
- DSP controls for Back Light Compensation, and Gain Control

SAFETY PRECAUTIONS



The lightning flash with arrowhead symbol, within an equilateral triangle is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING :

To prevent fire or shock hazard, do not expose this appliance to rain or moisture.
To avoid electrical shocks, do not open the cabinet. Refer servicing to qualified personnel only.

FC-25C and FCH-25C should be used with 12VDC or 24VAC.

FC-30C and FCH-30C should be used with 230VAC.

CAUTION :

To prevent electrical shocks, do NOT use any other power source.

 The CE Marking is a Directive Conformity mark of the European Union (EU).

1. Power supply

- (1) Use only with a 230VAC power supply for FC-30C and FCH-30C.
Use only with a 24VAC power supply marked class 2 or 12VDC regulated power supply for FC-25C and FCH-25C
- (2) Be sure to connect each lead to the appropriate terminal. Wrong connection may cause mal function and / or damage to the camera.

2. Operating and storage locations

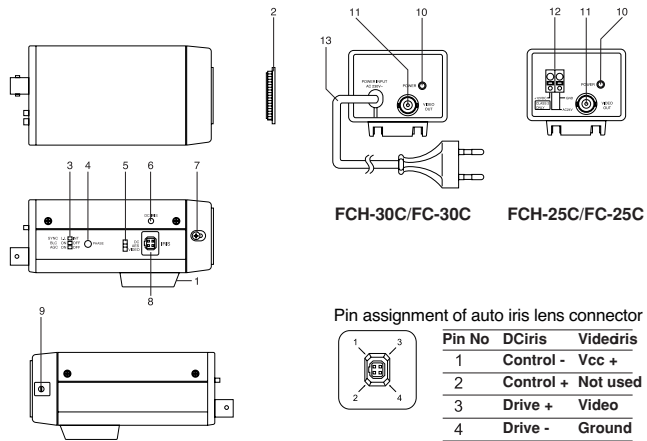
- (1) Do not attempt to aim the camera at the sun or other extremely bright objects that cause smear to appear irrespective of whether the camera is operating or not. This can damage the CCD (Charge Coupled Device).
- (2) Do not place the camera in the following locations.
 - ① Locations subjected to extremely high or low temperatures.
(operating temperature range : -10°C to $+50^{\circ}\text{C}$ (14°F to 122°F)
(storage temperature range : -20°C to $+60^{\circ}\text{C}$ (-4°F to 140°F))
 - ② Locations subjected to high levels of humidity and dust
(storage humidity range : max 85% (no condensation))
 - ③ Locations where there are large amounts of water vapor and steam
 - ④ Locations subjected to excessive vibrations
- (3) When this camera is installed near equipment, like a wireless communication device, that emits a strong electromagnetic field, some irregularity such as noise on the monitor screen may happen.

3. Handling of the unit

Do not allow the camera to be subjected to strong impacts or shocks. The camera could be damaged by improper handling or storage.

- Never attempt to disassemble or modify the camera.
- If an abnormality should occur, immediately turn off the power and consult your dealer.
- Never open the housing of any power supply during cleaning.
- After installation, ensure that all cables are laid in such a way that they cannot be kinked or crushed or damaged in any other way.

PART DESCRIPTION

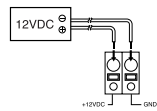


- ① Mounting adaptor
- ② CCD cover
- ③ Dip switches
- ④ Line phase adjustment volume
- ⑤ Auto iris mode switch
- ⑥ DC iris level adjustment
- ⑦ Back focus lock screw
- ⑧ Auto iris lens connector
- ⑨ Back focus adjustment screw
- ⑩ Power LED
- ⑪ BNC connector for video output
- ⑫ Power input connector(FC-25C, FCH25C)
- ⑬ Power cable (FC-30C, FCH-30C)

EG-5

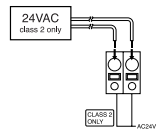
INSTALLATION

CONNECTION OF POWER SUPPLY CABLE (FC-25C, FCH-25C)



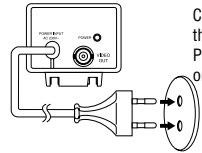
Connect to the 12VDC power supply. Please refer to the drawing on the left.

NOTE
When using DC power, check for proper polarity before connecting to power supply.



Connect to the 24VAC power supply. If necessary, adjust the line phase to synchronize the image. Please refer to the drawing on the left.

CONNECTION OF POWER SUPPLY CABLE (FC-30C, FCH-30C)



Connect the power plug to the power connection point. Please refer to the drawing on the left.

LINE PHASE ADJUSTMENT



If necessary, adjust the line phase to synchronize the image by rotating PHASE adjustment volume.

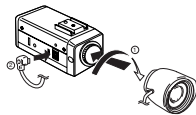
NOTE

In case 12VDC power supply is used, this function is not available.

NOTE

In case the line phase cannot be adjusted (Phase difference is more than 180°), exchange the polarity of AC power input.

LENS MOUNTING



Remove the CCD cover. Then attach the CS mount lens to the camera. Please refer to the drawing on the left.

CAUTION
Be cautious not to use Auto Iris Lens with over 75mA

DC IRIS LEVEL ADJUSTMENT 

DC iris level is preset in the factory. Only if necessary, adjust the DC iris level to achieve the proper picture with AGC off.

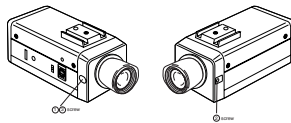
AUTO IRIS MODE SELECTION

DC
AES
VIDEO

POSITION	LENS
DC	DC iris lens
AES	Manual or fixed iris lens
VIDEO	Video iris lens

Set the auto iris mode selection switch to the position that corresponds to the lens which is mounted to the camera. Please refer to the table on the left.

BACK FOCUS ADJUSTMENT



If back focus has to be adjusted after mounting the lens, (1) loosen the back focus lock screw on the left side of the camera with a (+) screwdriver, (2) turn the back focus adjustment screw on the right side of the camera with a (-) screwdriver until the desired focus is reached, (3) tighten the back focus lock screw.

DIP SWITCH SETTING

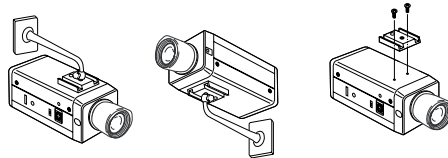
DIP switch on the left side of the camera allows you to set the functions of the camera. Please refer to the following table.

- ① SYNC LL INT
- ② BLC ON OFF
- ③ AGC ON OFF

factory setting

No.	NAME	POSITION	FUNCTION
1	Synchronization mode (SYNC)	L.L.	Line lock mode
		INT.	Internal synchronization mode
2	Back light compensation (BLC)	ON	sets to this position when strong light comes in behind the target
		OFF	normal position
3	Auto gain control (AGC)	ON	AGC level varies from 0dB to maximum 20dB
		OFF	normal position

MOUNTING BRACKET



Tighten the screw to attach the bracket. Refer to the above drawing.

SPECIFICATION

Model No.	FC-25C	FCH-25C	FC-30C	FCH-30C
TV System	CCIR			
Scanning System	2:1 Interlace			
Image Sensor	1/3" IT. CCD			
Effective Elements (H x V)	500 x 582	752 x 582	500 x 582	752 x 582
Scanning Frequency (H / V)	15.625 kHz / 50 Hz			
Video Output	1.0V (p-p) / 75Ω			
Resolution (Horizontal)	380 TV lines	570 TV lines	380 TV lines	570 TV lines
Minimum Illuminance (50IRE)	0.07 lux (F1.2/50 IRE) 0.03 lux (F0.8/50 IRE)	0.14 lux (F1.2/50 IRE) 0.06 lux (F0.8/50 IRE)	0.07 lux (F1.2/50 IRE) 0.03 lux (F0.8/50 IRE)	0.14 lux (F1.2/50 IRE) 0.06 lux (F0.8/50 IRE)
AGC	+20dB			
S/N Ratio (AGC Off)	More Than 48 dB			
γ Characteristic	0.45			
Auto Electric Shutter (AES)	1/50 - 100,000 Sec.			
Sync. System	INT. / L.L.			
Power Supply	12VDC/24VAC		230VAC	
Power Consumption	Less Than 3.3 W	Less Than 3.5 W	Less Than 3.3 W	Less Than 3.5 W
Ambient Temperature	Operation : -10°C - +50°C / Storage : -20°C - +60°C			
Ambient Humidity	Operation : RH80% Max. (Keep Free From DAMP) / Storage : RH85%			
External Dimensions	55 (W) x 40 (H) x 102 (D) mm		55 (W) x 40 (H) x 112 (D) mm	
Weight	280g approx.		410g approx.	
Input / Output	Video Output : BNC			
	Power input : Screwless 2 Pins Terminal		Power input : Power connector with cable	



CBC Co.,Ltd.

Printed in KOREA