

CH 03214

DOME Camera



3-axis

FC



CAUTION:

To prevent electric shocks and risk of fire hazards, DO NOT use other than specified power source.



To prevent fire or shock hazard, do not expose the unit to rain or moisture. The symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.



The symbol is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be sufficient magnitude to constitute a risk of electric shock to persons.

Caution

- Do not attempt to disassemble the camera.**
In order to prevent electric shock, do not remove screws or cover.
- Handle the camera with care.**
The camera could be damaged by improper handling or storage
- Do not expose the camera to rain or moisture, or try to operate in wet areas.**
Take immediate action if the camera becomes wet. Turn the power off and request service to qualified personnel. Moisture can damage the camera and also create a risk of electric shock.
- Do not use strong or abrasive detergents when cleaning the camera body.**
Use a dry cloth to clean the camera when dirty. In case the dirt is hard to remove, use a mild detergent and wipe gently.
- Never point the camera toward the sun.**
Whether the camera is used outdoor or not, never point it toward the sun. Use with caution when operating the camera in the vicinity of spot lights or other bright lights and light reflecting objects.
- Do not operate the camera beyond its temperature, humidity, or power source ratings.**
Do not use the camera in an extreme environment where high temperature or high humidity exists. Use the camera under conditions where temperatures are between 14°F~122°F (-10°C~+50°C), and humidity is below 85%.

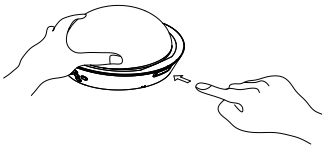
WARNING This equipment has been tested and found to comply with the limits for a Class A. Digital device. Pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy, and if not installed and used in accordance with the instruction manual, it may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at own expense.

CAUTION Any changes or modifications in construction of this device which are not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

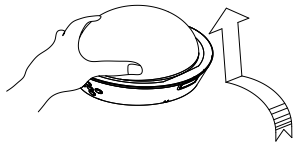
Installation

Installation

- Opening the dome : Push the latch button.



- Removing the dome : Lift the dome case.



- Camera installation & Lens adjustment.

- Fix the mount bracket with supplied screw on ceiling or wall mount.
Note : The camera front sign is on the mount bracket.
- Attach the main body to the mount bracket by rotating it.
- By turning the ①(Tele-Wide) knob, you can access a range of focal lengths
- Since then, by turning the ②(Near-Far) knob, you can set the focus
- Reassemble dome case.

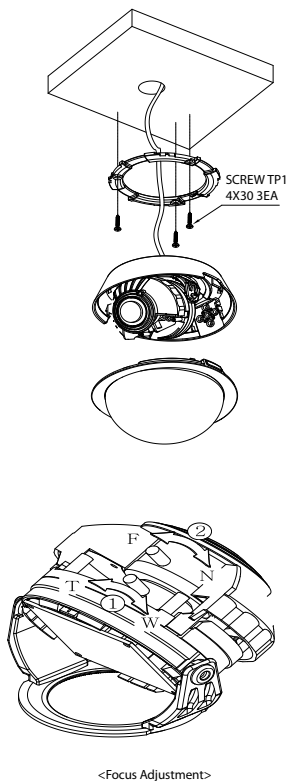
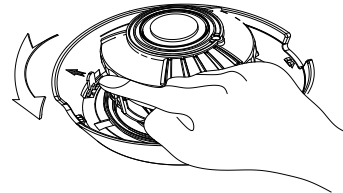


Diagram & Adjustment

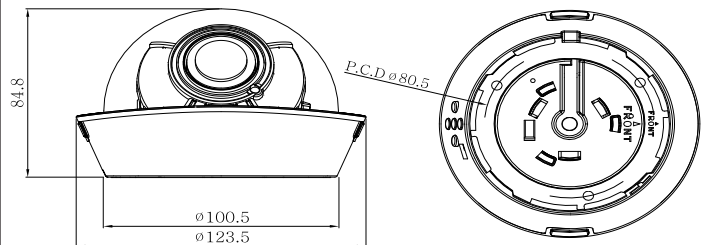
Angle Adjustment

- Pan adjustment : Grasp the lens cover and then adjust direction to the right or left. ('D' : -180°~+180°)
- Tilt adjustment : Grasp the lens cover and then adjust direction to the up or down ('A' : 18°~90° or 'B' 21°~90°)
- Roll adjustment : grasp the lens cover and then rotate ('C' : -180°~+180)

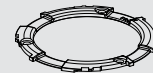
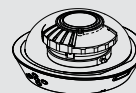


Removing Mount Bracket

- Push the button inside of main body and turn the main body counterclockwise.
- Detach the main body from mount



Composition



Main Product

User Manual

Mount Bracket

Screws & Anchor

OSD Menu Structure 1

Setup Menu	Default Set	Menu
Lens	DC	DC / Manual
Exposure	Shutter : - Brightness : - AGC : Middle Sens_up : Auto BLC : Off DWDR : Off	Shutter : FLK, 1/50~1/100000, MANUAL(x256) Brightness : 0~100 Level Off / Low / Middle / High Off / Auto (2 ~ 256 Level) Off / BLC / HSBLC Off / Indoor / Outdoor Return
White Bal	ATW	ATW / AWB / AWC / Manual / Indoor / Outdoor Manual(R Gain : Level adjust / B Gain: Level adjust)
Day/Night	Auto	Auto : Delay / S-Level / E-Level EXT : - B/W : Burst Off/On Color : -
3DNR	On	On(Limit : 0 ~ 100 Level Selectable) / Off
Special	Refer to the next Table	(Structure 2)
Adjust	Sharpness : Blue : Red :	0~31 Level Selectable 0~100 Level Selectable 0~100 Level Selectable
Reset	-	Set a manufacture state
Exit	-	Saves all the SETUP Menu and then exits

Specification

Model	CH 03214
Type	Dome Camera
Image Sensor	1/3" Sony SUPER HAD II CCD
Effective Pixel	768(H) x 494(V)
Cell Size	6.35μm(H) x 7.4μm(V)
Resolution	HORI. Color 530 TV Line
TV Type	NTSC
Sync. Type	Internal
Scanning System	2:1 Interlace
Scanning Frequency H.	15.734 KHz
Scanning Frequency V.	59.94 Hz
Video Out	1.0 Vp-p (Sync. Negative) Termination 75Ω
Gamma Characteristic	γ = 0.45 typ.
Min. Illumination	0.1Lux (F1.2)
S/N Ratio	45dB or More (AGC OFF)
Gain Control	Automatic
Shutter	1/60 ~ 1/100,000 sec
Test Illumination Area	AVERAGE TEST ILLUMINANCE BY FRONT VIEW
Current Consumption	120mA Max.
Supplied Voltage	Regulated DC 12V ± 15%
Reverse Polarity Protection	Yes
Lens	3.6mm
Operation Temp	-10 ~ 50 °C (14 ~ 122 °F)
Preservation Temp	-20 ~ 60 °C (-4 ~ 140 °F)
Dimension	123.1mm(W) X 123.5mm(D) X 84.8mm(H)
Weight	Approx. 350g

Special Function

Function	Condition
Day & Night	Color/BW/Auto/EXT
BLC	BLC/HSBLC/OFF & DWDR selectable
Blemish Compensation	256 Point(Even 128 point, Odd 128 point)
Sens-up	Auto/Off(Selectable limit x2 ~ x256)
OSD Language	English/Korean/Chinese/Japanese
Motion Detection	On/Off (4 Zone)
DNR	Off/On (0~100 Level Adjustable)
Digital Zoom	On(x32)/Off
Privacy	On/Off(8 Zone)
Mirror(H-REV)	On/Off(Horizontal)
Flip(V-REV)	On/Off(Vertical)
Freeze	On/Off
Sharpness	Level Adjustable

Troubleshooting

If you have a trouble operating your camera, refer to the following.
If the guidelines do not enable you to solve the problem, contact an authorized technician.

The image does not appear on the screen.	Check the power source for the monitor and camera and assure that the voltage and polarity are properly connected and being supplied correctly.
The image on the screen is dark.	Check if the lens is stained. If dirty, clean the lens with a soft, clean cloth. Adjust the contrast feature of the monitor and DC level.
The surface of the camera case is hot and a black line appears on the screen.	Check if you have connected the camera to a proper power source and if there is no problem with the power, turn the unit off immediately and seek assistance from our After Service department.
The screen blinks a lot.	Check if the camera is pointed toward the sun or a fluorescent lamp. Adjust the angle or location of the camera if too much light is coming into the screen.

OSD Menu Structure 2

Special Menu	Default Set	Menu
Camera Title	Off	Off / On
D-Effect	Freeze : Off Mirror : Off D-Zoom : Off Gamma : 0.45 Neg. Image: Off	On / Off Off / Mirror / V-Flip / Rotate On (D-Zoom x 32 / PAN ±100 / TILT ±100) / Off 0.05 ~ 1.0 Selectable Off / On Return
RS485	Cam ID ID Display Baudrate	1 ~ 255 Selectable Off / On 2400 / 4800 / 9600 / 19200 / 38400 / 57600
Motion	Off	On : Area Select (1 ~ 4) Area Display (On / Off) Left / Right (0 ~ 100) Width (0 ~ 100) Top / Bottom (0 ~ 100) Height (0 ~ 100) Sensitivity (0 ~ 40) Motion View (Off/On)
Privacy	Off	On : Area Select (1 ~ 8) Area Display (On / Off) Left / Right (0 ~ 100) Width (0 ~ 100) Top / Bottom (0 ~ 100) Height (0 ~ 100) Color (0 ~ 15)
Sync	INT	INT / LL
Language	English	English/Japanese/Chinese/Korean
Return	-	Return to the SETUP menu