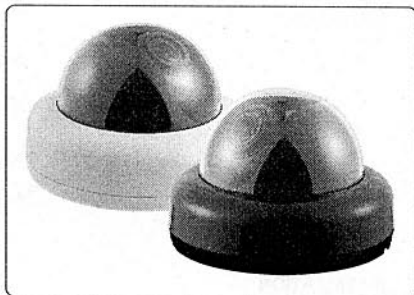


CCTV DOME CAMERA

Features

- 1/3 Color CCD
- Day & Night Function
- Upgraded 3 Axis
- High Resolution/ High Sensitivity
- Filterchange Auto Varifocal Lens : 2.8-12mm
- Controlled by OSD Menu
- Built in Active type of UTP Transmitter



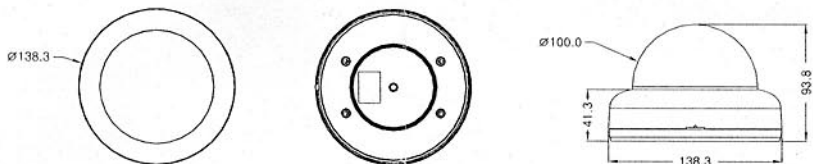
Specification

Model	NTSC	PAL
Resolution	580 TV Lines	
Sensor	1/3 inch SONY Super HAD 2 CCD used	
Total Pixels	811(H) x 508(V) 410K pixels (NTSC)	795(H) x 595(V) 470K pixels (PAL)
Effective Pixels	768(H) x 494(V) 380K pixels (NTSC)	752(H) x 582(V) 440K pixels (PAL)
Scanning System	2:1 Interlace	
Synchronization	Internal	
Frequency	Horizontal : 15.734KHz Vertical : 59.94Hz	Horizontal : 15.625KHz Vertical : 50.00Hz
S/N (Y signal)	More than 50 dB (AGC off)	
Video Output	CVBS : 1.0Vp-p / 75ohm	
Min. Illumination	0.3 Lux at F1.2 (Color) / 0.03 Lux (BW)	
White Balance	ATW/ AWB/ AWC → SET/ MANUAL/ INDOOR/ OUTDOOR (2,000°K~20,000°K)	
Electronic shutter Speed (Sens-up)	Auto / Manual (X128 ~ 1/60 sec ~ 1/120,000 sec)	Auto / Manual (X128 ~ 1/50 sec ~ 1/120,000 sec)
O.S.D	Built-in	
Backlight Compensation	ON / OFF	
Gain Control	ON / OFF	
3D NR	ON / OFF	
Day & Night	ON / OFF	
SYNC	INTERNAL ONLY	
Motion Detection	ON / OFF (4 AREA)	
PRIVACY	ON / OFF (8 Zone)	
MIRROR	MIRROR/ V-FHP/ ROTATE	
Operating Temperature / Humidity	-10°C ~ +50°C / 30% ~ 80% RH	
Storage Temperature / Humidity	-20°C ~ +60°C / 20% ~ 90% RH	
Power Source	DC12V (Option: AC24V/DC12V Dualpower)	

★ Above specifications may be changed without any notice.

CCTV DOME CAMERA

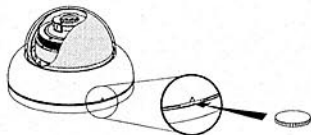
DIMENSION



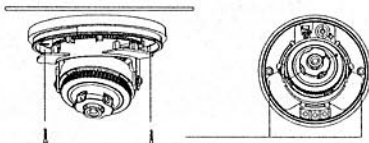
INSTALLATION

1. Opening

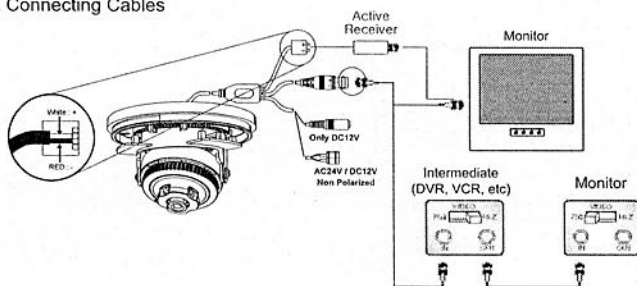
Use the coin to open the cover.



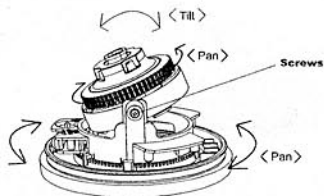
2. Place the camera in the desired location and install using the two screws supplied.



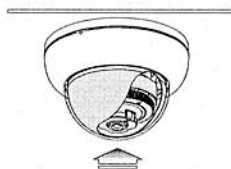
3. Connecting Cables



4. Pan/Tilt & Focus Controls



5. Closing the cover



DC IRIS LENS MODEL

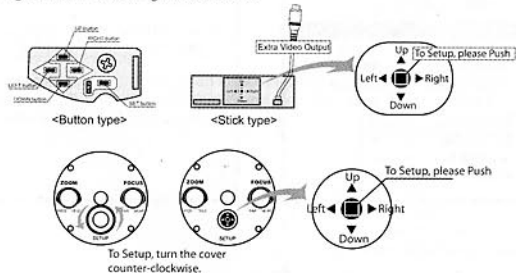
OSD CONTROL USER MANUAL

 Menu

Setup Menu			
LENS	DC		
EXPOSURE	SHUTTER BLC	AGC D-WDR	SENSE-UP
WHITE BAL	AWB INDOOR	ATW MANUAL	OUTDOOR AWC → SET
DAY NIGHT	AUTO EXT	COLOR	B/W
3 DNR	ON	OFF	
SPECIAL	CAM TITLE PRIVACY	D-EFFECT SYNC	MOTION
ADJUST	SHARPNESS	BLUE	RED
RESET	FACTORY		
EXIT			

* Settings

Settings can be made using the 5 buttons.



OSD CONTROL

How to display MAIN SETUP MENU

1. Press the button downwards. Setup Menu will be displayed on screen of the monitor
2. OSD functions will appear on the screen.
3. Select a function you would like to change by moving the ► arrow UP and DOWN.
 - a. If there is a ↵ at end of the OSD function, this means that there is a sub menu hidden. You can display the sub menu by pressing the button downward.
 - b. Once you have selected the mode to be changed, just move the button LEFT or RIGHT.
 - c. If there is a ↵ at the end of the sub menu, this means that there is another hidden menu. Just press the button downward to display. Take the same procedures as 4a and 4b to activate.
 - d. If this --- appears at the end of the sub menu, this means no sub menu.
5. To view the previous menu or sub menu, please move the arrow down to RETURN, push the button LEFT or RIGHT and set the mode to RET ↵. Press the button and the screen will display the previous menu or sub menu.
6. To exit the main menu or sub menu, please move the arrow down to RETURN, push the button LEFT or RIGHT and set the mode to END ↵. Press the button and you will exit.

SETUP	
► 1. LENS	DC ↵
2. EXPOSURE	↵
3. WHITE BAL	AWB
4. DAY NIGHT	AUTO ↵
5. 3DNR	ON ↵
6. SPECIAL	↵
7. ADJUST	↵
8. RESET	↵
9. EXIT	↵

LENS	
► BRIGHTNESS 55
RETURN	RET ↵

OSD CONTROL

LENS

DC : Auto IRIS Lens only

- ① Press button downward to display sub menu on screen.

SETUP	
► 1. LENS	DC ↵
2. EXPOSURE	↵
3. WHITE BAL	AWB
4. DAY NIGHT	AUTO ↵
5. 3DNR	ON ↵
6. SPECIAL	↵
7. ADJUST	↵
8. RESET	↵
9. EXIT	↵

1. Press button to change to LENS mode.

- ① BRIGHTNESS

You may adjust the brightness by move the button LEFT or RIGHT and set the brightness.

The brightness scale is from 0 to 100.

- ② After adjustments have been made, please move the arrow down to RETURN. Please adjust the mode to RET ↵ or END ↵ and press the button downward.
 - a. RET ↵ means go back to previous menu.
 - b. END ↵ means EXIT OSD menu.

LENS	
► BRIGHTNESS 55
RETURN	RET ↵

EXPOSURE

Please press the button to display setup menu on screen. Move the arrow UP or DOWN to 'EXPOSURE' and press the button downward for exposure mode setting.

SETUP	
1. LENS	DC ↵
► 2. EXPOSURE	↵
3. WHITE BAL	AWB
4. DAY NIGHT	AUTO ↵
5. 3DNR	ON ↵
6. SPECIAL	↵
7. ADJUST	↵
8. RESET	↵
9. EXIT	↵

OSD CONTROL

- SHUTTER (speed control)
Shutter speed 1/60 is set as default.
- Move button to left or right to change shutter speed.
- After adjustments have been made, please move the arrow down to RETURN. Please adjust the mode to RET ↵ or END ↵ and press the button downward.
 - RET ↵ means go back to previous menu.
 - END ↵ means EXIT OSD menu.

EXPOSURE	
▶ SHUTTER	1/60
AGC	---
SENSE-UP	OFF
BLC	OFF
D-WDR	OFF
RETURN	RET ↵

WHITE BALANCE control

- Please move the arrow down to WHITE BAL.
- You can select 6 modes by pushing the button LEFT or RIGHT.
 - AWB (Auto White Balance)
 - AWC → SET (Auto White Balance Control)
 - Manual ↵
Sub menu to adjust color balance of BLUE and RED. You may adjust each color by pushing the button LEFT or RIGHT on a scale from 0 to 100.
 - INDOOR
 - OUTDOOR
 - ATW (Auto Tracing White Balance)

SETUP	
1. LENS	DC ↵
2. EXPOSURE	↵
▶ 3. WHITE BAL	AWB
4. DAY NIGHT	AUTO ↵
5. 3DNR	ON ↵
6. SPECIAL	↵
7. ADJUST	↵
8. RESET	↵
9. EXIT	↵

OSD CONTROL

DAY NIGHT

- Move the arrow down to DAY NIGHT.
- You can select two modes of AUTO ↵ and EXT by pushing the button LEFT or RIGHT.
 - AUTO ↵
There is four setup values when you press the button. When you select this mode, it maybe appeared the picture image by color at daytime and B/W at night time.
 - EXT
When this mode selected, you can control the color mode or the B/W mode by use of external signal.
 - B/W (Black and White)
Black and white mode setting.
 - Color ↵
Color mode setting

SETUP	
1. LENS	DC ↵
2. EXPOSURE	↵
3. WHITE BAL	AWB
▶ 4. DAY NIGHT	AUTO ↵
5. 3DNR	ON ↵
6. SPECIAL	↵
7. ADJUST	↵
8. RESET	↵
9. EXIT	↵

1. DAY NIGHT : AUTO

- You can select the value adjustment by moving the arrow up down.
- Push the button LEFT or RIGHT which you have selected. Adjustments can be made on a scale from 0 to 100.
 - DELAY
You can delay a switch time from color mode to B/W mode or from the B/W mode to the color mode.
 - S-LEVEL
You can adjust an illumination conversion level when the camera switched from the color mode to the B/W mode.
 - E-LEVEL
You can adjust an illumination conversion level when the camera switched from the B/W mode to the color mode.

DAY NIGHT AUTO	
▶ DELAY	5
S-LEVEL	70
E-LEVEL	55
RETURN	RET ↵

- RETURN (RET or END) : Return to a previous(higher) menu.

OSD CONTROL

1. DAY NIGHT : B/W

① Press the button and one sub menu will appear on screen.
arrow up down.

a. BURST mode

Push button LEFT or RIGHT to turn mode ON or OFF.

SETUP	
1. LENS	DC ↵
2. EXPOSURE	↵
3. WHITE BAL	AWB
▶ 4. DAY NIGHT	B/W ↵
5. 3DNR	ON ↵
6. SPECIAL	↵
7. ADJUST	↵
8. RESET	↵
9. EXIT	↵

DAY NIGHT B/W	
▶ BURST	OFF
RETURN	RET ↵

3DNR (3D Digital Noise Reduction)

Please move the arrow down to 3DNR. You may select two modes by pushing the button LEFT or RIGHT.

① ON

There is one sub menu when you press the button at ON mode, you will see LEVEL scale on screen.

a. LEVEL can be adjusted by pushing the button LEFT or RIGHT on scale 0 to 100.

SETUP	
1. LENS	DC ↵
2. EXPOSURE	↵
3. WHITE BAL	AWB
4. DAY NIGHT	AUTO ↵
▶ 5. 3DNR	ON ↵
6. SPECIAL	↵
7. ADJUST	↵
8. RESET	↵
9. EXIT	↵

3DNR	
▶ LEVEL	■■■■■■■■■■ 50
RETURN	RET ↵

OSD CONTROL

SPECIAL

Move the arrow down to SPECIAL.

Please press button to view the sub menu title on screen. There are 6 sub menu titles.

SETUP	
1. LENS	DC ↵
2. EXPOSURE	↵
3. WHITE BAL	AWB
4. DAY NIGHT	AUTO ↵
5. 3DNR	ON ↵
▶ 6. SPECIAL	↵
7. ADJUST	↵
8. RESET	↵
9. EXIT	↵

1. CAM TITLE

① You may set the camera title on screen by pressing the button LEFT or RIGHT and stop at ON ↵

② Please press the button and the next sub menu will appear on screen.

③ If you would not like to have the camera title on screen, please push the button LEFT or RIGHT and stop at OFF.

④ Once all setting have been completed move arrow down to RETURN. Please push the arrow LEFT or RIGHT and select RET ↵ or END.

a. RET ↵ means go back to previous menu when you press button.

b. END ↵ means EXIT OSD menu when you press button.

SPECIAL	
▶ 1. CAM TITLE	ON ↵
2. D-EFFECT	↵
3. MOTION	ON ↵
4. PRIVACY	OFF ↵
5. SYNC	INT
6. RETURN	RET ↵

▶ How to input CAM TITLE

① You can input your camera title by controlling the cursor by pushing the button UP, DOWN, LEFT, and RIGHT. Press button to confirm the character you have chosen. The character are alphabet, numbers, and symbols. The cursor will blink at its position on character and dotted line.

② After confirming the character, it will appear on the bottom dotted line. You can input 15 characters on screen.

OSD CONTROL

- Input character by pressing button, move the cursor ← → by pushing button LEFT or RIGHT on the bottom dotted line.
- To erase selected character, please move the cursor by ← → to the position and move the character by pushing the button LEFT, RIGHT, UP and DOWN to the position above A and beside ZERO push the press the button. To overwrite the character do the same procedure as erase.
- To check the camera name move bottom cursor to POS and push the bottom. The camera title will appear on the upper left corner of the screen.
- To delete camera name, move button to CLR and press the button.
- When finished with Camera title move cursor to END to exit CAM TITLE and on screen the previous menu will display.

- Move cursor LEFT on dotted line below.
- Move cursor RIGHT on dotted line below.
- CLR means to delete all selected character.
- POS means checking camera name on screen.
- END means exit CAM TITLE and go back to previous menu.

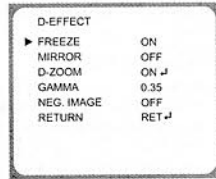
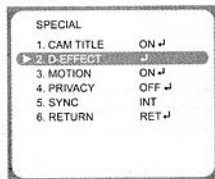


2. D-EFFECT (Digital Effect)

Move arrow to D-EFFECT ↵ and press the button. The sub menu will appear on screen.

a. FREEZE (OFF or ON)

- You may freeze the live picture on screen when you press the button at ON.
- You may release the frozen live view by pressing the button at OFF.



OSD CONTROL

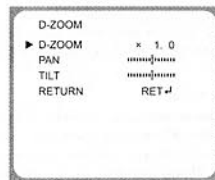
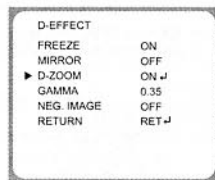
b. MIRROR (OFF, MIRROR, V-FLIP, and ROTATE)

c. D-ZOOM (OFF or ON)

Move arrow to D-ZOOM and press button. The sub menu will appear on screen.

- D-ZOOM (Default set at X1.0)
- PAN
- TILT
- RETURN

- Press button to change digital zoom by moving the button LEFT or RIGHT. You may set the digital zoom from x1.0 ~ x32
- When setting is finished, move arrow to RETURN. You may turn to the previous menu by pressing the button at RET ↵ or you may exit the SETUP menu by pressing the button at END ↵



d. GAMMA (0.05 to 1.00)

e. NEG. IMAGE (OFF or ON)

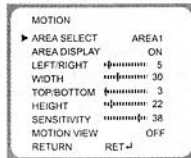
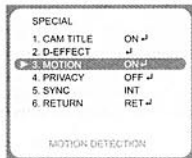
f. RETURN (RET ↵ or END ↵)

OSD CONTROL

3. MOTION

Move arrow down to MOTION

- You may set Motion OFF or ON \downarrow by pushing the button LEFT or RIGHT.
- When you set OFF, "MOTION DETECTION" will not blink at the bottom of screen.
- You may set MOTION ON, "MOTION DETECTION" will blink at the bottom of screen.
- When you press button at ON \downarrow , the sub menu will appear on screen.



① AREA SELECT

You can adjust 4 areas on screen individually for motion detection by pushing the arrow LEFT or RIGHT, AREA1, AREA2, AREA3, and AREA4. On screen, the AREA will appear in grey shades.

② AREA DISPLAY

It can be set on screen as ON or OFF pushing the button LEFT or RIGHT. When set OFF the grey shade will disappear from screen. When set ON, the grey shade will appear on screen and when the button is pushed at ON \downarrow , the sub menu will appear on screen. Please select motion adjustment by moving the arrow UP and DOWN.

- LEFT / RIGHT : You may move the grey shade on screen by pushing the button LEFT or RIGHT.
- WIDTH : You may adjust WIDTH of the grey shade by pushing the LEFT or RIGHT on a scale from 0 to 100.
- TOP / BOTTOM : You may adjust the grey shade by pushing the button LEFT or RIGHT on scale from 0 to 100.
- HEIGHT : You may adjust the HEIGHT of the grey shade by pushing the button LEFT or RIGHT on scale from 0 to 100.
- SENSITIVITY : You may adjust the SENSITIVITY by pushing the button LEFT or RIGHT on scale from 0 to 40.
- MOTION VIEW : You may view a moving object GREEN when it passes by the motion detection zone. This function can set ON or OFF by pushing the button the LEFT or RIGHT.

OSD CONTROL

4. PRIVACY

8 areas can be set for PRIVACY.

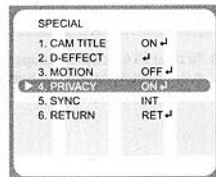
① AREA SELECT

You can adjust 8 independent areas by pushing the button LEFT or RIGHT to the selected area or color.

② AREA DISPLAY

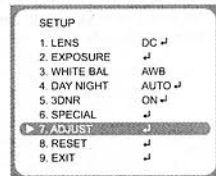
Move the arrow down to AREA DISPLAY. AREA DISPLAY can be displayed on screen ON or OFF by pushing the button LEFT or RIGHT. When set OFF, the color shades will not be displayed on screen. When set ON \downarrow , the 8 color shades will appear on screen. When button is pressed at ON \downarrow , sub menu will appear on screen. Please move arrow UP or DOWN to select adjustment for PRIVACY AREA.

- LEFT / RIGHT : You may move the color shade by pushing the button LEFT or RIGHT on a scale from 0 to 100.
- WIDTH : You may adjust WIDTH of the color shade by pushing the button on a scale from 0 to 100.
- TOP / BOTTOM : You may adjust the color shade on screen by pushing the button LEFT or RIGHT on scale from 0 to 100.
- HEIGHT : You may adjust the HEIGHT of the color shade by pushing the button LEFT or RIGHT on scale from 0 to 100.
- COLOR : You may select your color shade from 15 colors.



ADJUST

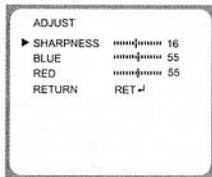
Move arrow down to ADJUST \downarrow push the button.
On screen, the adjust sub menu will appear on screen.



OSD CONTROL

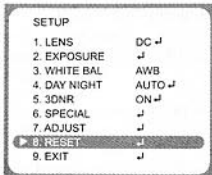
1. Move arrow to adjust SHARPNESS, BLUE, and RED of the picture on screen.

- a. SHARPNESS : You may adjust picture sharpness by pushing the button LEFT or RIGHT on a scale from 0 to 100.
- b. BLUE : You may adjust blueness of picture by pushing the button LEFT or RIGHT on a scale from 0 to 100.
- c. RED : You may adjust the redness of picture by pushing the button LEFT or RIGHT on scale from 0 to 100.



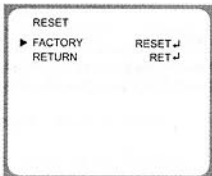
RESET

1. To clear all functional setups, please move the arrow down to RESET. Press the button and RESET sub menu will appear on screen.



2. To clear all functional setups, please move the arrow to FACTORY and press the button. When press at RESET ↵, all functions will be set back to factory default. The screen will change and the menu will disappear from screen.

EXIT



OSD CONTROL

MEMO