

ALL Directional Mount Outdoor Dome Camera

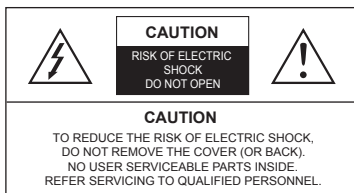
INSTRUCTION MANUAL



· **EL800**

Dear Customers!

By selecting this product, you have decided to use a professional device that guarantees highest quality and reliability. We would like to thank you very much for your confidence and kindly ask you to read the following instructions carefully before installation and operation in order to take full advantage of all quality features regarding this product.



The lightning flash with an arrowhead symbol, within an equilateral triangle is intended to alert the user to the presence of non-insulated 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.

INFORMATION

This equipment has been tested and found to comply with 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, 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 its own expense.

WARNING

Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

CAUTION – To prevent electric shock and risk of the fire hazards

- Do NOT use power source other than that specified.
- Do NOT expose this appliance to rain or moisture.

This installation should be made by a qualified service person and should conform to all local codes.

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1. Precautions

- Please read the manual carefully before the installation in order to set up the camera correctly and to obtain the best picture quality.
- Please keep the manual in good condition for your future reference and service application.
- Installation and services should be only carried out by an authorized personnel according to local safety regulations.
- If any liquid or solid matter gets into the housing, immediately disconnect the camera from power supply and have it checked by your authorized dealer before reusing.
- Avoid installing the camera at extremely hot or cold places.
- If you are not a certified person, never try to dismantle the camera. To avoid electric shock, never remove the screws or covers. There are no parts inside that need maintenance by the user. All maintenance should be carried out by qualified personnel.
- Avoid installing the camera at a place of high humidity.
- Avoid installing the camera at the place exposed to gas or oil.
- Keep the top glass of the lens always clean in order to obtain the best picture quality all the time. Be careful not to be stained by fingerprint.
- Don't face the camera directly toward sunlight or sunlight reflecting area. CCD may go defective at this condition.
- Please give a special attention to keep the unit from dangerous drop or external shock during the process of transportation or handling.
- Never try to touch the camera in wet hand. It may cause an electric shock.
- Do not expose the camera to radioactivity. It causes a serious damage on the CCD.

2. Limitation of liability

This publication is provided "AS IS" without warranty of any kind, either express or implied, including but not limited to, the implied warranties of merchantability, fitness for any particular purpose, or non-infringement of the third party's right. This publication could include technical inaccuracies or typographical errors. Changes are added to the information herein, at any time, for the improvements of this publication and/or the corresponding product(s).

3. Disclaimer of warranty

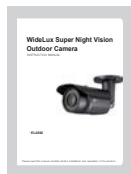
In no event shall seller be liable to any party or any person, except for replacement or reasonable maintenance of the product, for the cases, including but not limited to below:

- (1) Any damage and loss, including without limitation, direct or indirect, special, consequential or exemplary, arising out of or relating to the product;
- (2) Personal Injury or any damage caused by inappropriate use or negligent operation of the user;
- (3) Unauthorized disassemble, repair or modification of the product by the user;
- (4) Inconvenience or any loss arising when images are not displayed, due to any reason or cause including any failure or problem of the product;
- (5) Any problem, consequential inconvenience, or loss or damage, arising out of the system combined by the devices of third party.
- (6) Any claim or action for damages, brought by any person or organization being photogenic subject, due to violation of privacy with the result of that surveillance—camera's picture, including saved data, for some reason, becomes public or is used for the purpose other than surveillance.

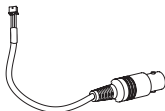
4. Package



Camera x 1



manual x 1



Extra video output cable
x 1



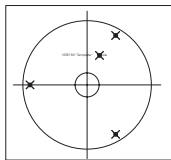
L- Wrench Ø3.0 x 1



Tapping screws x3



Tapping screws x3



Drilling Template x 1

5. Special features of the model

* Higher resolution of 600TVL(D)/650TVL(N)

This unit has come up with an innovative way of increasing cubic resolution to more than 30% higher than that of conventional 600TVL cameras. It upgrades horizontal resolution to 600TVL and vertical resolution to 540TVL so that the cubic resolution becomes 324KTVL while conventional cameras provide only 240KTVL.VV

* Unbeatable WDR Performance

This unit provides a very unique and far superior image scanning capability of defining the details of differently contrasted areas compared with any other conventional WDR cameras. With current WDR technologies, defining images in shaded areas are typically not clear enough with over-exposed picture quality. This camera provides a special resolution to intelligently analyze the exposure ratio and to optimize it into an unbeatably clear image quality.

* Super Low Light sensitivity

The system specifies itself as the best resolution in the market that overcomes the limitation of compromising light sensitivity from conventional WDR cameras. With its special technology, it provides remarkable low light sensitivity of 0.1Lux /F2.0 ~ 0.0001Lux w /Sens-up 512x which is at least 3 times better than any other conventional WDR cameras.

* 2D/3D Noise Reduction

2D/3D DNR achievement is another reference in new WDR technology. It reproduces noiseless images with 2D/3D filtering Noise Reduction Technology so that users can save the volume of storage media and HDD capacity in DVR. 2D DNR helps preserved edged in the picture, while 3D DNR realizes clear images with no ghost effect.

* DIS (Digital Image Stabilizer)

This technology reduces blurring associated with the motion of the subject by using pixels outside the border of the visible frame to provide a buffer for the motion. Increasing the exposure time without blurring the image makes the moving subject stabilized digitally.

* Anti-Color Rolling

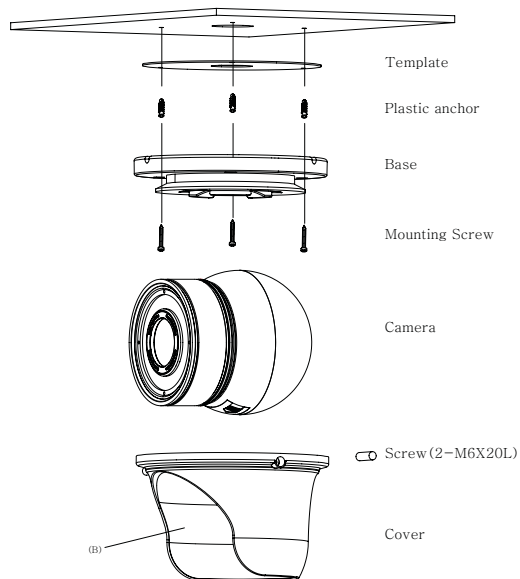
With an operation of a wide dynamic range camera in an environment with a fluorescent lighting, an effect that is called "color rolling" usually happens due to the lack of the synchronization between the camera and the neon light. New WDR technology tracks the light changes relative to the camera and adapts its own timing to the periodicity of fluorescent illumination to the sample light at a constant phase, virtually eliminating the color rolling effect.

* ALL directional mount

3-Axis structure combined with tilt-down 90 degree surveillance

6. Installation

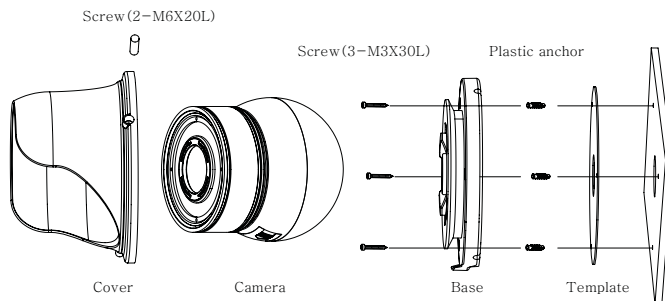
6-1. How to mount to Ceiling



- ① Drill three screw holes on the ceiling tile to fix anchors.
(using a supplied template sheet)
- ② Fix the plastic anchors in the holes.
- ③ Position the base on the screw points.
- ④ Fix the base by tightening the screws.(3-M3X30L)
- ⑤ Position (TILT 90°,ROATE 360°) the camera with the cover and tighten the screw.
(M6X20L)

6. Installation

6-2. How to install to Wall

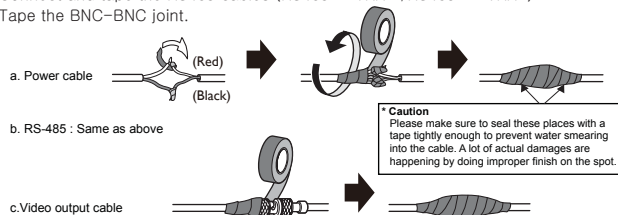


- ① Drill three screw holes on the ceiling tile to fix anchors.
(using a supplied template sheet)
- ② Fix the plastic anchors in the holes.
- ③ Position the base on the screw points
- ④ Fix the base by tightening the screws.(3-M3X30L)
- ⑤ Position (TILT 90°,ROATE 360°) the camera with the cover and tighten the screw.
(M6X20L)

6-4. Waterproof processing of cable end connection

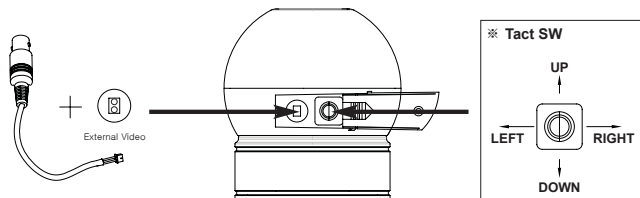
Make sure to use a butyl tape. (Do not use a sealing material on those parts)

- ① It is useful to connect the cable ends from camera to the extension cable for waterproof.
- ② Connect and tape the power cables (Power-Power/Ground-Ground).
- ③ Bind the power cables together with the tape. When DC-Jack is used, tape the DC-DC joint.
- ④ Connect and tape the RS485 cables (RS485+—TRX+ /RS485— —TRX—)
- ⑤ Tape the BNC-BNC joint.



7. Tips for quick installation

7-1. Tips for quick installation



◆ Quick control to Zoom & Focus

- Push up or down the Tact SW (OSD Key) by finger for a second
- Up → Zoom in
- Down ← Zoom out
- Left / Right ↔ Focus in/out

7-2. RS485 Connection

You can access to the OSD menu via remote controller or DVR as in the drawing.



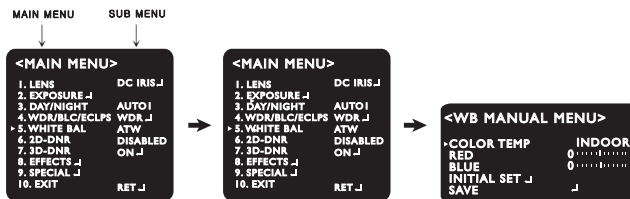
7. Tips for quick installation

7-3. Quick guide to trace OSD

Following steps shows on how to track down to AGC set up.

Step # 1. Please refer to the menu tree to find out the location of the wanted menu within the map.

- Please refer to the main menu tree in the OSD manual
- Following reference procedure is applied same to all other menu.
- Following procedure shows on how to track down to <Manual Color temperature set-up>



Step # 2. Scroll down the cursor to the WHITE BAL menu. Then you can see ATW at the SUB MENU.

Step # 3. If you push the Tact SW left or right, you can see 4 different modes of selection: ATW/ CoL-RoLL / PUSH/ MANUAL. Please press the Tact SW to enter into the <WB MANUAL MENU>.

Step # 4. Now you can adjust the details of Color temperature as you want. Press SAVE to finish all settings and return to the

Remark

The enter mark 'J' signifies a further Sub-menu is followed.

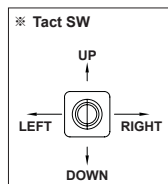
8. Functions and operation

8-1. On Screen Menu (OSD)

MAIN MENU					
LENS	MANUAL	DC			
EXPOSURE	AGC	SHUTTER	SENS-UP	INITIAL	SAVE
DAY/NIGHT	AUTO1	AUTO2	DAY	NIGHT	
WDR/BLC/ECLPS	OFF	WDR	BLC	ECLPS	
WHITEBAL	ATW	COL-ROLL	PUSH	MANUAL	
2D-DNR	DISABLED	OFF	LOW	MIDDLE	HIGH
3D-DNR	ON	OFF			
EFFECTS	DZOOM MODE	IMAGE FKE EZE	D-EFFECT	CONTRAST	SHARPNESS
	COLOR ADJUST	TARGET CROSS	BAD PIXEL	INITIAL SET	SAVE
SPECIAL	CAM NAME	MOTION DET	PRIVACY MASK	LANGUAGE	STABILIZER
	MONITOR TYPE	FACE REC	COMM SET	FACTORY RESET	SAVE
EXIT					

8-2. Setting up the menu

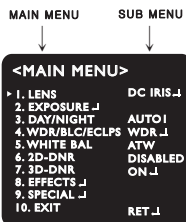
- Press the Tact SW to enter <MAIN MENU>.
- Move the arrow to a specific menu by pushing the Tact SW up or down.
- Adjust the selected feature by pushing the Tact SW left or right



How to use OSD button (Tact SW)

- Press
 - to enter the menu
 - to save settings
- Push up or down
 - to select functions
- Push left or right
 - to adjust a level or mode of sub-menu

- When completed, move the arrow indicator to 'EXIT' and press the Tact SW to finish all settings.



8. Functions and operation

Note

- If '↓' indication appears on a selected sub-menu, press the Tact SW to get into a following menu.
- If '----' indication appears on any sub-menu, it means the function with this mark is deactivated. (Ex : When SENS-UP is OFF, 3-DNR becomes deactivated '----')

8-3. LENS

Select the lens and adjust the SETUP suitable to the type of lens.

- When DC lens is used. (* Default)

- Please select the lens mode to DC IRIS.
- Press the Tact SW to enter the <DC IRIS MENU>.

- BRIGHTNESS: adjust the brightness of screen when the environment is extremely bright or dark.
- REACTION: Reaction speed of the shutter is adjustable. It is useful when the light condition of the environment keeps changing quickly.

- Save
 - Press SAVE to finish all settings and return to <MAIN MENU>

- When MANUAL lens is used.

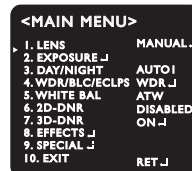
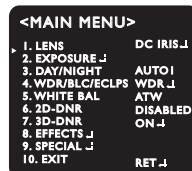
- Please select the lens mode to MANUAL.
- Press the Tact SW to enter the <MANUAL IRIS MENU>.

- BRIGHTNESS: same as above
- REACTION: same as above

8-4 EXPOSURE

- AGC (Auto Gain Control)
 - OFF: Deactivates the AGC function.
 - LOW: Allows automatic gain control from 0 to 20dB. (* Default)
 - MIDDLE: Allows automatic gain control from 0 to 30dB.
 - HIGH: Allows automatic gain control from 0 to 42dB.

- The higher the gain level, the brighter the screen becomes while the higher the noise as well.



8. Functions and operation

(2) SHUTTER

A. AUTO: The shutter speed is controlled automatically.
(* Default)

B. FLK: Please select FLK mode when flickering occurs on the screen, due to an imbalance between illumination and frequency.

C. FIXED : The shutter speed is controlled manually.

- You can select the speed from '1/60' to '1/90,000 sec. (NTSC), '1/50' to '1/90,000 sec. (PAL).

- You can select Digital Slow Shutter between x2 ~ x512. (DSS)

* Please use FIXED mode only when the light level of the surveillance area is fixed all the time.

(3) SENS-UP

- Low light sensitivity is greatly improved with the use of this function.

- Low light sensitivity level is adjustable from 2 to 512 times.

- When SENS-UP level is higher, the picture becomes brighter while noise is increased at the same rate of SENS-UP.

ON : Adjustable SENS-UP level between x2 ~ x512.

OFF: SENS-UP is disabled.

* Default setting is <x8>

☞ Note

- When the SHUTTER is set to MANUAL mode, SENS-UP does not operate.
- When the AGC is set to OFF, SENS-UP does not operate.

(4) INITIAL SET

Initialize all settings of EXPOSURE menu.

(5) SAVE

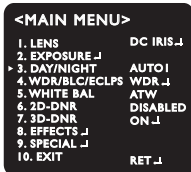
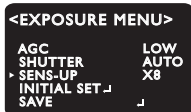
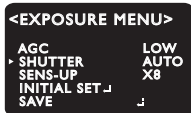
8-5. DAY / NIGHT

It is used to improve the sensitivity and clarity of picture quality at low light

- DAY : The image is always displayed in color.

- NIGHT : The image is always displayed in black and white.

- AUTO1: The image is automatically converted to B/W from Color at 3 lux.



- IR WDR LEVEL: Select Anti-IR saturation level - OFF/LOW/MIDDLE/HIGH
- IR WDR ADJUST: Adjust the value in each of selected level - 0 ~ 6

8. Functions and operation

- AUTO2: The image is automatically converted to B/W from Color at 3 lux.

• D/N LEVEL: LOW/MIDDLE/HIGH

• FILTER DLY: Select the duration time about changing the Day/Night mode.

(1 SEC, 3 SEC, 5 SEC, 10 SEC, 15 SEC, 30 SEC, 60 SEC)

• NIGHT BURST: Burst ON/OFF selectable.

• INITIAL SET: Initialize all settings of AUTO2 menu.

* Default setting

- Infrared camera: AUTO1

- Non-Infrared camera: AUTO2



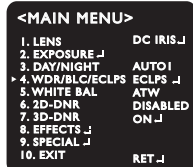
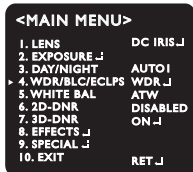
8-6. WDR/BLC/ECLPS

The image quality is greatly improved with the use of this mode when there is a strong backlight behind the object.

- OFF : Deactivates the WDR function.

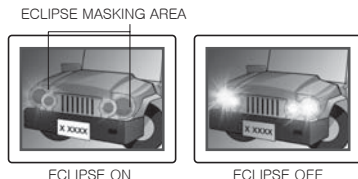
- WDR: Camera scans both of bright lit background and shaded area distinctively under an extremely contrasted light situation.
(LOW/MIDDLE/HIGH)

- BLC: Enables a user to directly select a desired area from a picture and to view the area more clearly.
(LOW/MIDDLE/HIGH)



8. Functions and operation

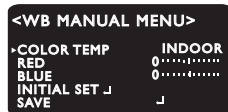
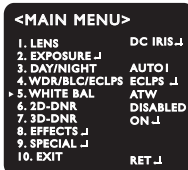
- ECLIPSE: Can mask the head lights to view car license number plate more clearly.
Can select masking color.
Adjust the ECLIPS level at the GAIN CONTROL as OFF mode.



8-7. White Balance (WHITE BAL)

This is useful to optimize the white balance control under a certain artificial lighting area where a standard white balance condition is not suitable.

- ATW (Auto Tracking White Balance)
This mode can be used within the color temperature range of 1,500°K~11,000°K.
(※ Default)
- COL-ROLL
Anti color rolling mode.
Use it only when the rolling is severely shown.
- MANUAL
Recommended to use it when the light temperature is fixed all the time
Select INDOOR or OUTDOOR mode.
- PUSH (Push lock)
Use this when the White Balance is deviated.
Face the camera toward the white wall or white paper and press the Tact SW



Note

- White Balance may not work properly under the following condition
 - When the color temperature of the environment surrounding the subject is out of the control range.(e.g. clear sky or sunset)
 - When the ambient illumination of the subject is dim.
 - If the camera is directed towards a fluorescent light or is installed in a place where illumination change dramatically, the White Balance operation may become unstable.

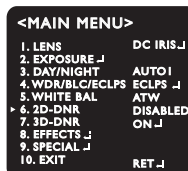
8. Functions and operation

8-8. 2D-DNR (2D Noise Reduction)

- LOW
- MIDDLE
- HIGH
- DISABLED: Deactivates 2DNR. Noise is not reduced.
- OFF : Activates 2DNR(Level : 0).
Noise is not reduced.

Note

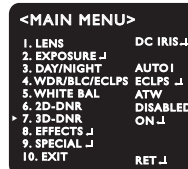
<Bad pixel detection> function is operated only when <2D-DNR DISABLED> is selected.



8-9. 3D-DNR (3D Noise Reduction)

The background noise in the low light level decreases automatically as the level of gain changes.

- DNR LEVEL
Adjust the noise reduction level.
- DESTINATION
Adjust the 3DNR gain.
- GLOBAL MOVEMENT
Control ghost phenomenon



8-10. EFFECTS

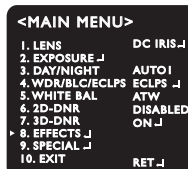
- D-ZOOM : You can use a digital zoom.

- ZOOM : x1 ~ x8.30
- DZOOM PAN : -100 ~ 100
- DZOOM TILT : -100 ~ 100

- IMAGE FREEZE : You can view still or live image.
- D-EFFECT

- V-FLIP : You can flip the picture vertically on the screen.
- MIRROR : You can flip the picture horizontally on the screen.
- ROTATE : You can flip the picture rotatively on the screen.

- CONTRAST : 0 ~ 100
- SHARPNESS : 0 ~ 100



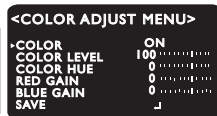
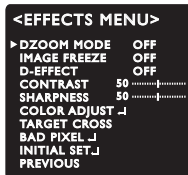
8. Functions and operation

– COLOR ADJUST

- COLOR : ON/OFF
- COLOR LEVEL : 0 ~ 200
- COLOR HUE : -180 ~ 180
- RED GAIN : -100 ~ 100
- BLUE GAIN : -100 ~ 100

– TARGET CROSS : Display ‘+’ on the screen

- COLOR : BALCK,GRAY,WHITE,RED,GREEN,YELLOW
- MOVE X : -100 ~ 100
- MOVE Y : -100 ~ 100
- INITIAL SET
- SAVE



Note

At TARGET CROSS function is in operation, ‘+’ display shall disappear if MOTION DET function is ‘ON’

– BAD PIXEL : BAD PIXEL compensation

- BP DETECTION: Make the screen completely black by covering the camera.
- SEARCH AREA: X START/Y START/WIDTH/HEIGHT
- THRESHOLD: 40 ~ 1024
- SAVE

(※ Users may simply activate BP DETECTION and go directly to SAVE.
Then Bad pixels in full screen are compensated automatically)



– INITIAL SET : Initialize all settings of EFFECTS menu.

(※ TARGET CROSS and BAD PIXEL modes are not initialized)

– SAVE

8. Functions and operation

8-11. SPECIAL MENU

– CAM NAME

- Please position the arrow to point to ‘CAM NAME’ by using the UP or DOWN selection.
- Please select ‘ON’ by using the LEFT and RIGHT selection.
- Please press the button to complete ‘ON’.



Note

If ‘OFF’ is selected, the CAM NAME does not appear on the monitor even if it has been input.

- ◆ Up to 15 letters are offered for the CAM NAME.

- Please move the cursor to the letter to choose by using the UP and DOWN selections.
- Set an ID from A~Z /a~z /0~9 by using the UP, DOWN, LEFT and RIGHT Selections.
- Lock in the letters by using the button.
- When the letter is locked in, the cursor moves to the next space.
- Please repeat the above to input CAM NAME.



Note

- For a wrong name has been input,
- If you press the button after moving the cursor to CLR, all vletters will be erased.
- If you want to correct a letter, please move the cursor to the arrow at the bottom left of the screen and press the button.
- Please position the cursor on the letter you wish to correct, and then move the cursor onto the letter you wish to choose and press the button.
- When a name has been chosen, please select a position for the name to display.



- ① Please move the cursor onto ‘POS’ and then press the button.
 - ② The name will appear at the top left hand corner.
 - ③ Please find the position you wish to display the name by using the 4 directional selections, and then press the Button.
- Please select ‘END’ and then press the Button to complete CAM NAME input.

8. Functions and operation

– MOTION (Motion Detection: MD)

- **ZONE NUMBER:** You can select up to 8 MD areas.
- **ZONE STATE:** Determines whether to use the MD area selected in ZONE NUMBER.
- **WIDTH:** Determines the coordinate of the horizontal size.
- **HEIGHT:** Determines the coordinate of the vertical size.
- **MOVE X:** Determines the coordinate of the horizontal axis.
- **MOVE Y:** Determines the coordinate of the vertical axis.
- **SENSITIVITY:** Determines the coordinate of the sensitivity.
- **INITIAL SET:** Initialize all setting of MOTION DET menu.
- **SAVE:** Select this to save the MOTION menu setting and return to the SPECIAL menu.

<SPECIAL MENU>	
CAM NAME	OFF
▶ MOTION DET	OFF
PRIVACY MASK	OFF
LANGUAGE	ENG
STABILIZER	OFF
MONITOR TYPE	CRT
FACE REC	OFF
COMM SET ↵	
FACTORY RESET ↵	
SAVE ↵	

<MOTION DET MENU>	
▶ ZONE NUMBER	ZONE1
ZONE STATE	OFF
WIDTH	20.....
HEIGHT	30.....
MOVE X	15.....
MOVE Y	25.....
SENSITIVITY	50.....
INITIAL SET ↵	
SAVE ↵	

– PRIVACY (Privacy Masking)

- **MASK NUMBER:** You can select up to 8 PRIVACY areas.
- **MAKS STATE:** Determines whether to use the selected in AREA SELECT.
- **SENSITIVITY:** Determines area color. You can select GRAY, WHITE, RED, GREEN, BLUE, YELLOW, BLACK.
- **WIDTH:** Determines the coordinate of the horizontal size.
- **HEIGHT:** Determines the coordinate of the vertical size.
- **MOVE X:** Determines the coordinate of the horizontal axis.
- **MOVE Y:** Determines the coordinate of the vertical axis.
- **INITIAL SET:** Initialize all setting of PRIVACY menu.
- **SAVE:** Select this to save the PRIVACY menu setting and return to the SPECIAL menu.

<SPECIAL MENU>	
CAM NAME	OFF
▶ MOTION DET	OFF
PRIVACY MASK	OFF
LANGUAGE	ENG
STABILIZER	OFF
MONITOR TYPE	CRT
FACE REC	OFF
COMM SET ↵	
FACTORY RESET ↵	
SAVE ↵	

<PRIVACY MASK MENU>	
▶ MASK NUMBER	MASK1
MASK STATE	OFF
MASK COLOUR	GRAY
WIDTH	30.....
HEIGHT	30.....
MOVE X	30.....
MOVE Y	25.....
INITIAL SET ↵	
SAVE ↵	

– LANGUAGE

You can select the menu language according to your requirements.

- English, Korean, Russian, Spanish, French

<SPECIAL MENU>	
CAM NAME	OFF
▶ MOTION DET	OFF
PRIVACY MASK	OFF
LANGUAGE	ENG
STABILIZER	OFF
MONITOR TYPE	CRT
FACE REC	OFF
COMM SET ↵	
FACTORY RESET ↵	
SAVE ↵	

8. Functions and operation

– STABILIZER (DIS)

This function mitigates any picture movement due to external factors such as wind.

Note

- The chance of resolution decrease is existed because STABILIZER function uses the digital zoom.
- STABILIZER doesn't operate when background illumination is too low.
- STABILIZER doesn't operate when object pattern is monotonic like sky or white wall.

<SPECIAL MENU>	
CAM NAME	OFF
▶ MOTION DET	OFF
PRIVACY MASK	OFF
LANGUAGE	ENG
STABILIZER	OFF
MONITOR TYPE	CRT
FACE REC	OFF
COMM SET ↵	
FACTORY RESET ↵	
SAVE ↵	

– MONITOR TYPE

- CRT: GAMMA 0.45
- LCD: GAMMA 1.0

<SPECIAL MENU>	
CAM NAME	OFF
▶ MOTION DET	OFF
PRIVACY MASK	OFF
LANGUAGE	ENG
STABILIZER	OFF
MONITOR TYPE	CRT
FACE REC	OFF
COMM SET ↵	
FACTORY RESET ↵	
SAVE ↵	

– FACE REC (Face Recognition)

A special area where the internal illumination is dark while strong back light exists behind the object, normally human face becomes unrecognizable.

This mode is suited for this particular situation.

- FR BRIGHTNESS : 0 ~ 40
- FR CONTRAST : 0 ~ 40
- COLOR SAT : 0 ~ 200
- CONTRAST : 0 ~ 100
- OUTPUT LEVEL : -64 ~ 64
- SHARPNESS : 0 ~ 100

<SPECIAL MENU>	
CAM NAME	OFF
▶ MOTION DET	OFF
PRIVACY MASK	OFF
LANGUAGE	ENG
STABILIZER	OFF
MONITOR TYPE	CRT
FACE REC	OFF
COMM SET ↵	
FACTORY RESET ↵	
SAVE ↵	

– COMM SET (Communication setting)

This function sets up the camera communication status when controlling the camera through an external control device.

<COMM SETTING MENU>	
• PROTOCOL	PELCO D
CAMERA ID ↵	
BAUD RATE	9600
SAVE/REBOOT ↵	
SAVE ↵	

8. Functions and operation

– CAMERA ID

- CAMERA ID : Determines the camera's identification number (between 0 and 255).
- ID POSITION: Displays camera title on top left & right side of the screen.
- BAUD RATE : You can select 4800/9600/19200/38400/57600 bps .
- SAVE/REBOOT: Select this to save the COMM SET menu setting and return to the main screen.
- PREVIOUS: Return to COMM SET menu.



Note

- RS-485 cable : Please connect (–) firstly and then (+).
- If there happens RS-485 cable connection error or any other problems, a message **'ERROR RS-485 Connection. Please Reconnect and Reboot'** is displayed. Please reset the power or OSD.
- FACTORY RESET
Resets the camera setting to the factory defaults.
But <COMM SET> menu is not initialized.

8-12. EXIT

Save all setting menus by pressing the Tact SW and then exit by pressing EXIT menu.

9. Troubleshooting

If there are problems in operating, please refer to the checklist below. If the problem persists, please contact the agent where this product is purchased.

Problems	Troubleshooting
Nothing appears on the screen.	• Please check that the power cord and line connection between the camera and monitor are fixed properly. • Please check that you have properly connected VIDEO cable to the camera VIDEO output jack.
The image on the screen is dim.	• Is lens stained with dirt? Clean your lens with soft, clean cloth. • Set the monitor to proper condition. • If the camera is exposed to too strong light, change the camera position.
The image on the screen is dark.	• Adjust the contrast feature of the monitor. • If you have an intermediate device, set the 75Ω / Hi-Z properly (Please check the impedance)
The camera is not working properly, and the surface of the camera is hot.	• Please check that you have properly connected the camera to an appropriate power source.
The DAY/NIGHT menu does not work.	• Please check if DAY NIGHT menu is set to 'AUTO1'.
The SENS-UP function does not work.	• Please check that AGC of EXPOSURE SETUP menu is set to 'OFF'. • Please check that SHUTTER of EXPOSURE SETUP menu is set to 'A.FLK' or 'FIXED'.
The MOTION DETECTION function is not working.	• Please check if MOTION DETECTION function is turned on. • Please check if MD LEVEL is too low. • Please check the setting of the MD area.
Color is not correct.	• Please check the setting of WHITE BAL SETUP menu .
The screen flickers continually.	• Please check that direction of camera turns toward the Sun.

MEMO

MEMO

MEMO

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