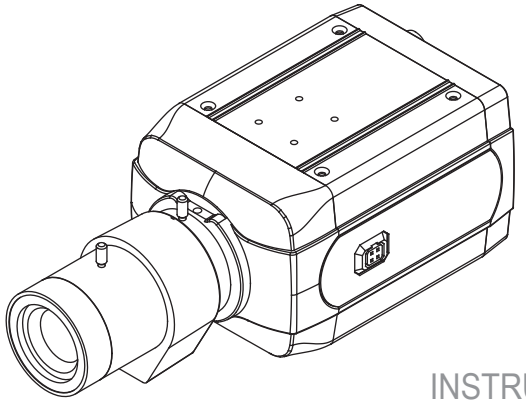
# 600TVL Extreme Dynamic Image Box Camera



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## INSTRUCTION MANUAL

Before installing, operating or adjusting this product, please read this instruction booklet carefully and completely.

**CAUTION**
RISK OF ELECTRIC SHOCK
DO NOT OPEN

CAUTION : TO REDUCE THE RISK OF ELECTRIC SHOCK
DO NOT REMOVE COVER (OR BACK)
NO USER SERVICEABLE PARTS INSIDE
REFER SERVICING TO QUALIFIED
SERVICE PERSONNEL

REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

The lightning flash with an 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 product.

FCC WARING - This equipment may generate or use radio frequency energy. Changes or modifications to this equipment may cause harmful interference unless the modifications are expressly approved in the instruction manual. The user could lose the authority to operate this equipment if an unauthorized change or modification is made.

REGULATORY INFORMATION : FCC Part 15

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, 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 his own expense.

- A suitable conduit entries, knock-outs or glands shall be provided in the cable entries of this product in the end use
- Caution : Danger of explosion if battery is incorrectly replaced. Replaced only with the same or equivalent type recommended by the manufacturer. Dispose of used batteries according to the manufacturer's instructions.
- Holes in metal, through which insulated wires pass, shall have smooth well rounded surfaces or shall be provided with brushings.

WARNING - Do not install this equipment in a confined space such as a bookcase or similar unit.

WARNING - Wiring methods shall be in accordance with the National Electric Code, ANSI/NFPA 70.

WARNING - This is a class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

WARNING - To reduce a risk of fire or electric shock, do not expose this product to rain or moisture.

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

CAUTION - To avoid electrocal shock, do not open the cabinet. Refer servicing to qualified personnel only.

CAUTION - To apparatus should not be exposed to water (dripping or splashing) and no objects filled with liquids, such as vases, should be placed on the apparatus.

Disposal of your old appliance

1. When this crossed-out wheeled bin symbol is attached to a product it means the product is covered by the European Directive 2002/96/EC
2. All electrical and electronic products should be disposed of separately from the municipal waste stream via designated collection fafilities appointed by the government or the local authorities
3. The correct disposal of your old appliance will help prevent potential negative consequences for the environment and human health
4. For more detailed information about disposal of your old appliance, please contact your city office, waste disposal service or the shop where you purchased the product.

To disconnect power from the mains, pull out the mains cord plug. When install the product, ensure that the plug is easily accessible.

# IMPORTANT SAFETY INSTRUCTIONS

1. Read these instructions - All these safety and operating instructions should be read before the product is operated.

2. Keep these instructions - The safety, operating and user instructions should be retainde for future reference.

3. Heed all warnings - All warnings on the product and in the operating instructions should be adhered to.

4. Follow all instructions - All operating and user instructions should be followed.

5. Do not use this apparatus near water - For example : near a bath tub, wash bowl, kitchen sink, laundry tub, in a wet basement; near a swimming pool; etc.

6. Clean only with dry cloth - Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners.

7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions. - Slots and openings in the cabinet are provided for ventilation, to ensure reliable operation of the product, and to protect it from overheating. The openings should never be blocked by placing the product on a bed, sofa, rug or other similar surface. This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided and the menufacturer's instructions have been adhered to.

8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.



IMPORTANT SAFETY INSTRUCTIONS

9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.

10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.

11. Only use attachments/accessories specified by the manufacturer.

12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.

13. Unplug this apparatus during lightning storms or when unused for long periods of time.

14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as powersupply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.



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# MODEL SELECTION

BCN-1020 / BCP-1020

| CCD | KEY FEATURE | MODEL | H.Resolution |
|---|---|---|---|
| 1/3" Interline Dual Scan CCD | WDR, 3D DNR | BCN-1020 | 600TV Line |
| 1/3" Interline Dual Scan CCD | WDR, 3D DNR | BCP-1020 | 600TV Line |

BCN-1010 / BCP-1010

| CCD | KEY FEATURE | MODEL | H.Resolution |
|---|---|---|---|
| 1/3" Super HAD CCD | 3D DNR | BCN-1010 | 600TV Line |
| 1/3" Super HAD CCD | 3D DNR | BCP-1010 | 600TV Line |

Power Supply

This camera must always be operated by a AC24V or DC12V Certified/Listed, class 2 power supply only.
Note : Line Lock only with AC 24V cameras will not work with DC 12V.

Handling of unit

Be careful not to spill water or other liquids on the unit. Be cautious not to get combustible or metallic material inside the body. If used with foreign matter inside. the camera is liable to fail or cause a fire or an electric shock.

Operating and storage

Do not point camera of view directly to light source(CCD sensor will be damage). Avoid operating or storing the unit in the following locations.

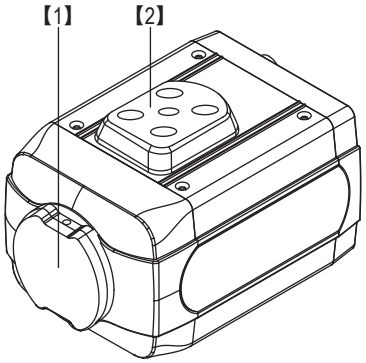
- Extemely hot or cold places (operating temperature -10□ ~ 50□, however, we recommend that the unit be used within a temperature range of 0□ ~ 45□)
- Assumes no wind shill factor
- Damp or dusty place
- Places exposed to rain
- Places subject to strong vibration
- Close to generators with powerful electromagnetic radiation such as radio or TV transmitters.

Cleaning of the unit

- Remove dust or dirt on the surface of the lens with a blower.
- Use a dry soft cloth to clean the body. If it is very dirty, use a cloth dampened with a small quantity of neutral detergent, then wipe dry.
- Avoid the use of volatile solvents such as thinners, alcohol, benzene, and insecticides.
  They may damage the surface finish and / or impair the operation of the camera.





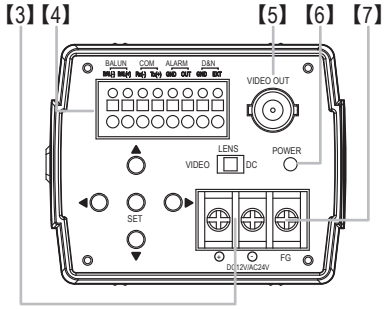



【1】 Lens mount cap
The cap is installed to protect the lens mount section. Remove the lens mount cap before installing a lens. (sold separately)

【2】 Camera installation bracket
The bracket can be fixed at the top or bottom of the camera. (page 18)








【3】 Power input terminal
AC 24V or DC 12V input terminal

【4】 External Device Connectors
- D&N
  Connect the external swich to set the D&N function manually.
- Alarm Output Terminal (ALARM OUT/COM)
  Connect to the alarm output of an external device
- COMMUNICATION (COM)
  Connect to an external controller of RS-485 format.
- BALUN (UTP Terminal connector)
  Transmission of video signals via a single UTP (unshielded twisted pair)

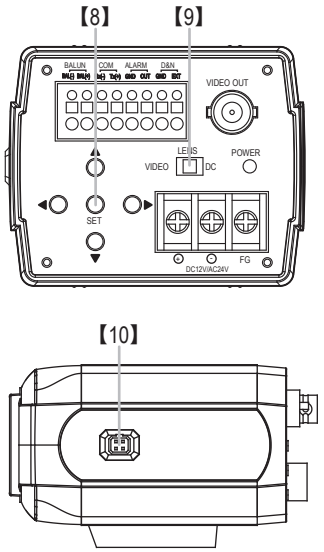
【5】 Video out(Type : BNC)
Connect this connector to a device such as a DVR or monitor with a VIDEO IN connector.

【6】 Power indicator
Comes on when the power to the camera is on.

【7】 GND








【8】 Buttons for menu
To set items on the MENU, use the these buttons on the back panel. (page 19)

【9】 ALC Lens Setting Switch
- DC : When you attach an Auto Iris lens requiring the DC control signal, please put this switch in the DC position.
- Video : When you attach an Auto Iris lens requiring the video control signal, please put this switch in the VIDEO position.

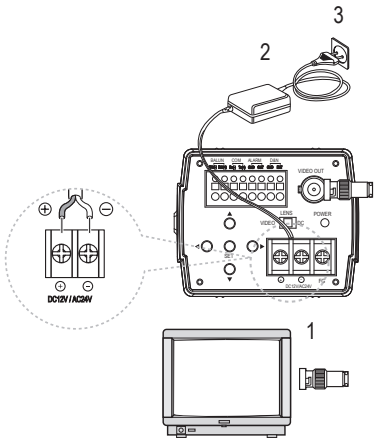
【10】 Lens iris output connector (LENS)
4-pin connector for Video or Auto iris lens.

Note :

Lens selection can be DC or Video.
- DC : Direct Drive Lens
- Video : Video Drive Lens

* Fixed Lens does not
* Refer to your Lens Manual for Instructions and Type require Lens selection of DC or Video.

# CONNECTIONS




## Basic connection

The peripheral devices (DVR, monitor, lens, etc), AC/DC adaptor and cables are not supplied.

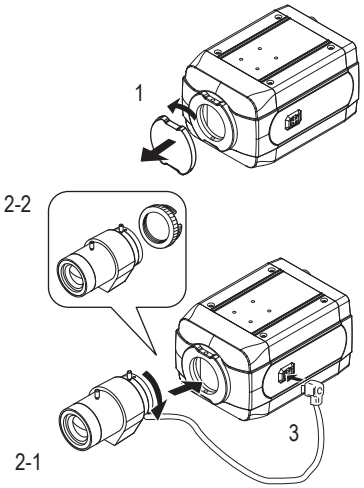
1. Connecting the monitor.
   Make the video signal connection between the camera and the monitor or time lapse monitor or DVR.

2. Use a commercially available AC 24V / DC12V adaptor.
   Connect an AC 24V / DC 12V power source to the AC 24V / DC 12V input terminal on the back of the camera.

3. Insert the plug of this power cord into a wall outlet.
   The POWER indicator will light. Adjust the picture on the monitor using the Brightness and Contrast controls etc.



# MOUNTING THE LENS




1. Remove the lens mount cap from the camera.

2. Install the auto-iris lens.
   2-1. Cs mount type lens
   Carefully align the lens mount with the camera opening, then turn the lens slowly to install it.
   2-2. C mount type lens
   To allow for flange-back adjustment, install the C-mount adaptor (option) on the lens mount, then carefully align the lens mount with the camera opening and turn the lens slowly to install it.

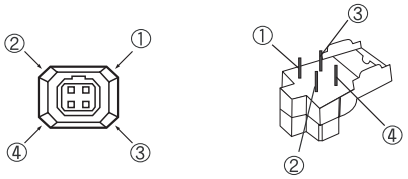
3. Connect the lens plug to the lens iris output connector (LENS) on the side of the camera.
   When using lenses from other makers, the plug shape may not correspond to the terminal on the camera.

   In such a case, remove the original plug and using a soldering iron, connect a lens iris plug according to the diagram. (Refer to next page.)



# MOUNTING THE LENS

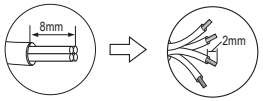
Pin layout for the lens iris output connector



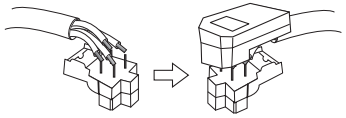

| No. | DC type lenses | VIDEO type lenses |
|---|---|---|
| 1 | Damping - | Vcc (+9V) |
| 2 | Damping + | Not used |
| 3 | Drive + | Video |
| 4 | Drive - | Ground |

## Rewire the lens iris plug

1. Cut off the plug of the lens cable, cut off approximately 8mm of the insulation, and then strip approximately 2mm of the ends of the cable sheaths.




2. Solder the ends of the cable wires to the ends of the pins, and then attach the cover of the lens iris plug.



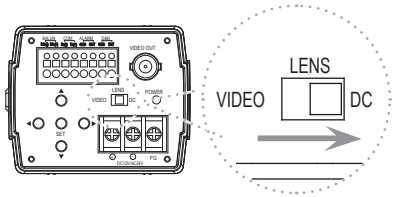


# DIFFERENT LENS TYPES

## DC type auto-iris lens

A lens without a driver circuit can only operates on a DC power source. In general, this type of lens is referred to as DC type coil lens. (Set the ALC Lens Setting Switch to the DC position.)

CAUTION : Depending on the type of lens used, the lens may not perform properly.




Note :

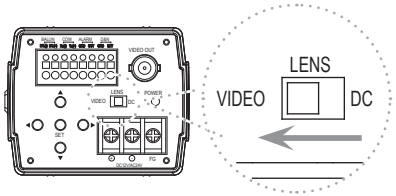
Refer to your Lens for Instruction and Type.

## VIDEO type auto-iris lens

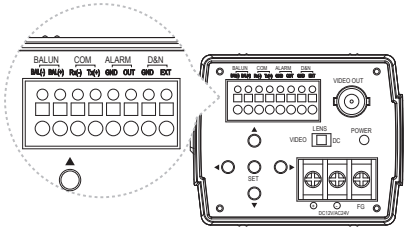
A lens with amplifier circuit can operate on video signal and DC power source. In general, this type of lens is referred to as EE amplifier type lens.

ALC and LEVEL volume level controls are available on the lens for iris adjustments. (Set the ALC Lens Setting Switch to the VIDEO position.)

CAUTION :
Be careful not to use Auto Iris Lens with over 35mA.



# EXTERNAL DEVICE CONNECTIONS




## BALUN

The cable allows for more versatile cabling, which includes coupling signals from remote video cameras to display systems, capture video, and to monitor other security and surveillance applications

## COMMUNICATION

Connect to an external controller of RS-485 format.

## Motion Detector

When the Motion Detector function is working, DC 3.3 Voltage is outputted to OUT pin and GND pin.

Note :

Use a relay unit if the voltage or current of the connected device exceeds the ratings.

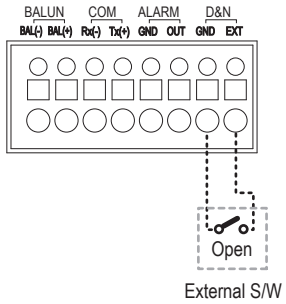


# DAY&NIGHT FUNCTION SETTING

You can set the D&N function manually.

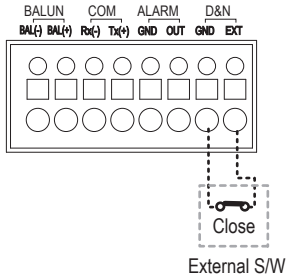
## Day function

When you open the external S/W, the D&N function is set to Day mode.




## Night function

When you close the external S/W, the D&N function is set to night mode.




Note :

If you use the external D&N function, you should set the DAY/NIGHT option to EXT on the setup menu.

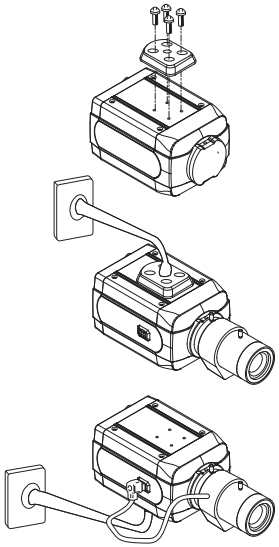


# INSTALLATION OF CAMERA

The bracket can be installed to either the top or bottom of the camera as desired. From changing the position of the camera mounting bracket, you should always reuse the screws that have been removed.

Note :

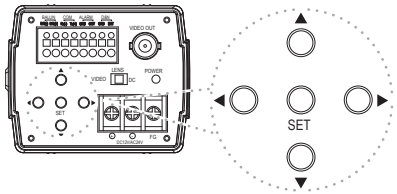
- Please use factory povided screws only.
- Camera mount and lens are not included(See your local dealer).





# MENU OPERATION

This camera utilizes an on-screen user MENU. To set items on the menu, use the following buttons on the side panel.




Up button : Moves the cursor upwards. Use this button to select an item or adjust the parameters.

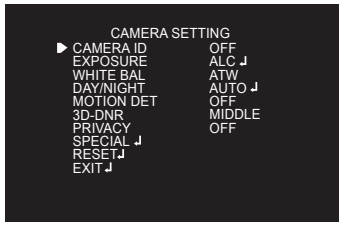
Down button : Moves the cursor downwards. Use this button to select an item or adjust the parameters.

Right button : Moves the cursor to the right. Use this button to select or adjust the parameters of the selected item. The parameter changes each time this button is pressed.

Left button : Moves the cursor to the left. Use this button to select or adjust the parameters of the selected item. The parameter changes each time this button is pressed.

SET

Set button : Executes selections and displays a submenu for an item with the ↵ mark.



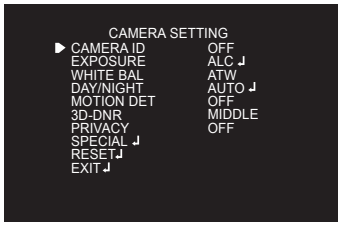

To Open and Exit the Menu screen

1. Press SET
   The MENU screen appears on the monitor.
   Check the current settings on the menu.
2. Use or button to select any options and use button to select a mode.
   - RET : Return to the previous.
   - TOP : Return to the CAMERA SETTING menu screen.
   - END : Exit the setup menu.

Note :
The setup menu will be disappear after saving the current setting values.







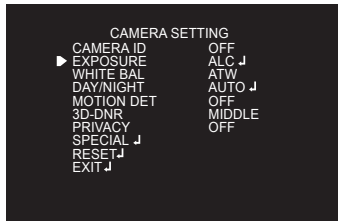

Camera Identification Settings

You can use the camera identification (CAMERA ID) to assign a number to the camera.

1. Select [CAMERA ID] option on the [CAMERA SETTING] menu.
2. Use or to select a CAMERA ID (OFF, 1-255).







You can set the exposure options using the EXPOSURE menu.
Select [EXPOSURE] option on the [CAMERA SETTING] menu.
Press SET button and the EXPOSURE menu appears.

WDR / BLC / HSBLC setting
(BCN(P)-1010 : BACKLIGHT → BLC/HSBLC Setting)

Use WDR/BLC/HSBLC option to set the options for BLC or WDR camera.

1. Select [WDR/BLC/HSBLC] option.
2. Use or button to select a mode then press SET
   - WDR : Set the WDR limit.
     - WDR LIMIT : LOW MIDDLE HIGH
   - BLC : Set the BLC limit.
     - BLC LIMIT : LOW MIDDLE HIGH
   - HSBLC : Use for adjusting brightness the specific area of picture.
     - AREA SETTING : Use or button to select an area then use or button to select ON or OFF. Press SET to exit the Area setting menu.

- GRAY SCALE : Use or button to select a gray scale. (GRAY D.GARY BLACK).
- USER SCALE : Use or button to select a brightness. level. (5 levels)

Brightness setting

You can set the brightness level. (0-100)

1. Select [BRIGHTNESS] option.
2. Use or button to set the bright level.

AGC (Automatic Gain Control) setting

If the images are too dark, change the maximum [AGC] value to make the images lighter.

1. Select [AGC] option.
2. Use or button to select a mode.
   (OFF LOW MIDDLE HIGH)

# EXPOSURE SETTING

SHUTTER (Shutter Speed) setting

1. Select [SHUTTER] option.
2. Use ◂or ▸button to set shutter speed.
   (AUTO ⟷OFF ⟷A.FLK ⟷1/160 ~ 1/90000 ⟷X512 ~ X2)

SENS-UP setting

If pictures are not clear due to darkness, use to reduce the noise in the picture.

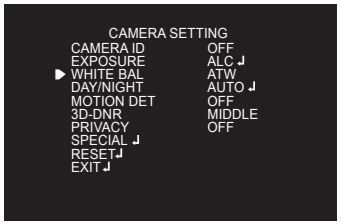
1. Use ▲or ▼ button to select [SENS-UP] option.
2. Use ◂or ▸button to select a [AUTO].
   To setting the [AUTO] function, select the [AUTO] on the [SHUTTER].
3. Press SET and use ◂or ▸button to set the SENS-UP limit (x2~x128).

Note :

If you set to one of the SHUTTER options except AUTO on the [SHUTTER] menu, the [SENS-UP] setting is not available and [---] mark is displayed.



# WHITE BALANCE SETTING



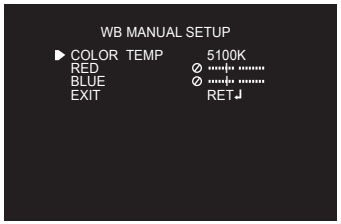

Setting the WB (White Balance) Mode

You can select one of three modes for white balance adjustment.

1. Select [WHITE BAL] option.
2. Use ◂or ▸button to select one of three modes for white balance then press SET .
   - ATW (Auto-Tracing White Balance) : The color temperature range for the proper white balance is approximately 1700 - 11000K. Proper white balance may not be obtained under the following conditions :
     1) The color temperature is out of the 1700 - 11000K range.
     2) When the scene contains mostly high color temperature objects, such as a blue sky or sunset.
     3) When the scene is dim.
   - AWC ⟶PUSH : If you select the AWC ⟶PUSH mode, you will be able to set up the White Balance automatically using SET button.



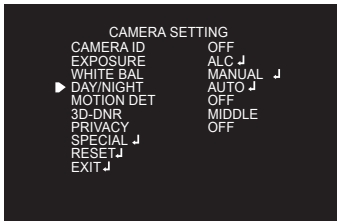
# WHITE BALANCE SETTING




- MANUAL : You can set the white balance options manually.
  - COLOR TEMP : Use ◂or ▸butoon to select a function. (INDOOR : 3200, OUTDOOR : 5100)
  - RED : Obtains the optimum amount of red gain.
  - BLUE : Obtains the optimum amout of blue gain. It is a function of a color camera to delete the filter with the IR Cut function in an illumination below the standard value so that it has a better sensitivity.



# DAY / NIGHT SETTING



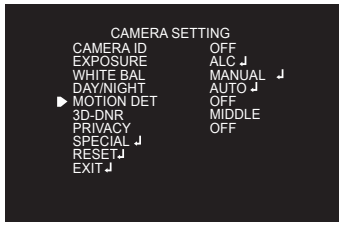
1. Select [DAY/NIGHT] option.
2. Use ◂or ▸button to select a mode for day/night function.
   - AUTO : You will be able to change the Day/Night mode automatically.
     - LEVEL : Use ◂or ▸button to select a level. (LOW ⟷MIDDLE ⟷HIGH)
     - DWELL TIME : Use ◂or ▸button to select a dwell time. (5, 10, 15, 30, 60 sec.)

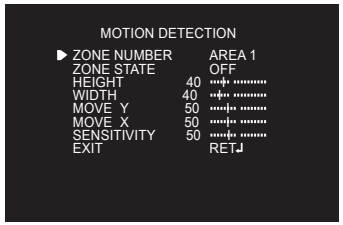
   Note :

   If you set the AGC to [OFF] or the SHUTTER is set to one of the SHUTTER options except AUTO on the [EXPOSURE] menu, the AUTO mode of the DAY/NIGHT function is not available and [---] mark is diaplayed.

   - EXIT : Switches between color picture and black-and-white picture when an external day/night switching signal is received.
   - DAY : Color mode enabled.
   - NIGHT : Black-and-white mode enabled.

# MOTION DETECTION SETTING



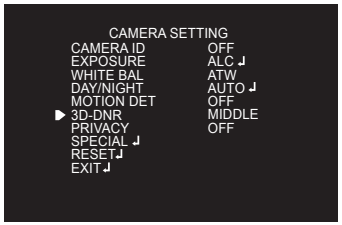




The motion detection detects the moving objects in the scene by monitoring changes in brightness level. You can select the level of sensitivity for motion detection to 4 zone.

1. Select [MOTION DET] option.
2. Use ◂or ▸button to select a [ON] and press SET
   The MOTION DETECTION menu appears.
3. Use ◂or ▸button to select a zone number (AREA 1~AREA 4) on the [ZONE NUMBER].
4. Use ◂or ▸button to set up the ON or OFF on the ZONE STATE.
5. Use ▲or ▼ to select an option then use ◂or ▸button to adjust the option.
   - HEIGHT : Enlarge or decrease the vertical size of the mask.
   - WIDTH : Enlarge or decrease the horizontal size of the mask.
   - MOVE X : Moves horizontal position of the mask.
   - MOVE Y : Moves vertical position of the mask.
6. Use [SENSITIVITY] option to obtain the optimum detection level.



# 3D-DNR SETTING



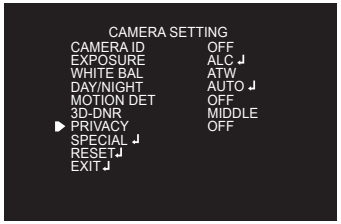

1. Select [3D-DNR] option.
   If pictures are not clear due to brightness, use to reduce the noise in the picture.
2. Use ◂or ▸button to select an option.
   (OFF ⟷ LOW ⟷ MIDDLE ⟷ HIGH).

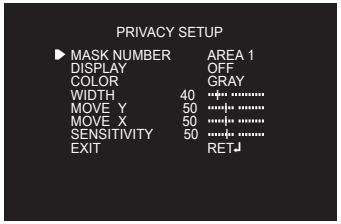
Note :

- If you set the AGC to [OFF] on the [EXPOSURE] menu, the [3D-DNR] function is not available and [---] mark is displayed.
- When you use this function, the after image may occur.



# PRIVACY SETTING



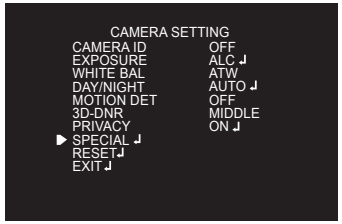




This function protects personal privacy by bloding up to 8 areas.

1. Select [PRIVACY] option.
2. Use ◂or ▸button to select [ON] and press SET The PRIVACY SETUP menu appears.
3. Use ◂or ▸button to select a mask (AREA 1 ~ AREA 8) on the [MASK NUMBER].
4. Use ◂or ▸button to set up the ON or OFF on the DISPLAY option
5. Use ◂or ▸button to set up the GRAY, WHITE or BLACK on the COLOR option.
6. Use ▲or ▼ to select an option then use ◂or ▸button to adjust the option.
   - HEIGHT : Enlarge or decrease the vertical size of the mask.
   - WIDTH : Enlarge or decrease the horizontal size of the mask.
   - MOVE X : Moves horizontal position of the mask.
   - MOVE Y : Moves vertical position of the mask.



# SPECIAL MENU SETTING



Special setting can be selected to adjust D-ZOOM, D-EFFECT, SHARPNESS, COLOR, SYNC, USER TITLE, LANGUAGE.

1. Select [SPECIAL] option.
2. Press SET button and the SPECIAL menu appears.

Setting the D-ZOOM (Digital Zoom) level

You can select the digital zoom level.

1. Select [D-ZOOM] option on the [SPECIAL] menu.
2. Use ◂or ▸button to select [ON] then press SET the DIGITAL ZOOM menu appears.
3. Use ▲or ▼ to select an option then use ◂or ▸button to select a level.
   - ZOOM : Use ◂or ▸button to enlarge the screen.
   - PAN : Use ◂or ▸button to move the screen. (left or right)
   - TILT : Use ◂or ▸button to enlarge the screen. (up or down)

Setting the D-EFFECT (Digital effect)

You can select the digital effect.

1. Select [D-EFFECT] option on the [SPECIAL] menu.
2. Use ◂or ▸button to select a digital effect.
   - V-FLIP : Flip the picture vertically.
   - MIRROR : Turn on the mirror effect.
   - ROTATE : Rotate the picture.(180˚)
   - OFF : Turn off the digital effect.

Setting the SHARPNESS effect

You can select the sharpness effect.

1. Select [SHARPNESS] option on the [SPECIAL] menu.
2. Use ◂or ▸button to adjust the level.

Setting the STABILIZER

You can select the STABILIZER ON/OFF.

1. Select [STABILIZER] option on the [SPECIAL] menu.
2. Use ◂or ▸button to change the STABILIZER ON/OFF.

Setting the COLOR effect

You can select the color effect.

1. Select [COLOR] option on the [SPECIAL] menu.
2. Use ◂or ▸button to change the color effect.
   - ON : Color screen
   - OFF : B/W (Black and White) screen

Setting the SYNC (Synchronization)

You can select internal sync (INT) mode or line-lock (LINE) mode.
The SYNC function is available only with AC power source.

1. Select [SYNC] option on the [SPECIAL] menu.
2. Use ◂or ▸button to select [INT] or [LL] (Line Lock).
   - INT : Select for internal synchronization.
   - LL (Line Lock) : Selects to synchronizes the camera phase by using the external AC signal.

Setting the USER TITLE

You can use the camera identification to assign a number and character to the camera (0-9, A-Z, a-z).
The USER TITLE is displayed on the upper left of the screen.
To hide the user title, select [OFF]

1. Select [USER TITLE] option on the [SPECIAL] screen.
2. Use ◂or ▸button to select [ON] then press SET
   The USER TITLE menu appears.

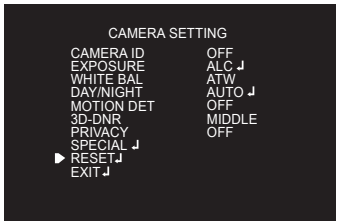
3. Use ▲, ▼, ◂or ▸button to select a character or number.
   - CLR : If you enter the wrong code, select CLR then press SET
   - POS : Use ▲, ▼, ◂or ▸button to move position of USER TITLE on the screen.
   - END : Confirm your selection.
   - 1(Black) : Inserts a space at the cursor position.
   - ⬅/ ➡ Moves cursor to left or right.

Language Setting

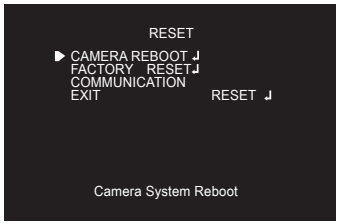
Select different languages for the Setup menu and on-screen display.

1. Select [LAGNUAGE] option on the [SPECIAL] menu.
2. Press ◂or ▸button to select a language.

RESET SETTING




1. Select [RESET] option.
2. Press SET button and the RESET menu appears.
3. Use ▲ or ▼ to select option
   - CAMERA REBOOT : To reboot the camera system.
   - FACTORY RESET : To reset the camera setting to factory setting, select [FACTORY RESET] option.



PROTOCOL Setting

You can Select other Protocols(Pelco D, P, LG)

1. Select Protocol option from communication Menu.
2. Use ◀ or ▶ to change the protocol.
   - Camera Reboot : To reboot the camera system

BAUD RATE Setting

You can Select other Rate(2400, 4800, 9600bps)

1. Select Baud Rate option from communication Menu.
2. Use ◀ or ▶ to change the Baud Rate.
   - Camera Reboot : To reboot the camera system

Note :

Upon set up completion, Save & RESET must be selected for the functions to work.







SPECIFICATIONS

## WDR Box Camera Specification(BCN-1020 / BCP-1020)

| Model | | PAL | NTSC |
|---|---|---|---|
| Total/Effective Pixels | | 470K/440K Pixels | 410K/380K Pixels |
| Pick-up Device | | 1/3” Interline Color CCD | |
| Lens | | C/CS Mount | |
| Iris | | DC/VIDEO Selectable | |
| Signal Process | | Digital Signal Process | |
| Scanning System | | 2:1 Interlace | |
| Synchronization | | Internal / Line Lock | |
| System Scanning | | 50 Hz (VD) | 59.94 Hz (VD) |
| Frequency Resolution | | 600TV Lines | |
| S/N Ratio | | More than 52 dB (AGC Off, F1.0) | |
| Minimum Illuminance | Day | 0.00002 Lux (Sens-Up Auto, F1.2) (0.1Lux : Sens-Up Off) | |
| | Night | 0.00002 Lux (Sens-Up Auto, F1.2) (0.01Lux : Sens-Up Off) | |

| Model | PAL | NTSC |
|---|---|---|
| Video Output Signal | 1.0-Vp-p Composite Signal (75Ω) | |
| Auto Gain Control | OFF / LOW / MIDDLE / HIGH | |
| Exposure | ALC / ELC | |
| Electric Shutter | 1/50 - 1/90,000 (Auto Mode) | 1/60 - 1/90,000 (Auto Mode) |
| White Balance | ATW / AWC -> PUSH / MANUAL | |
| Back Light | OFF / WDR / BLC / HSBLC | |
| EIS | ON / OFF | |
| WDR | 60dB | |
| MOTION DET. | ON / OFF | |
| Power Consumption | 4.4W | |
| Operation Temperature | -10℃~50℃ (Humidity : 0%RH~80%RH) | |
| Weight | 300g | |
| Dimension (H x V x D) | 67.93 x 61.7 x 105 mm | |

## 3D DNR Box Camera Specification(BCN-1010 /BCP-1010)

| Model | | PAL | NTSC |
|---|---|---|---|
| Total/Effective Pixels | | 470K/440K Pixels | 410K/380K Pixels |
| Pick-up Device | | 1/3” Super HAD CCD | |
| Lens | | C/CS Mount | |
| Iris | | DC/VIDEO Selectable | |
| Signal Process | | Digital Signal Process | |
| Scanning System | | 2:1 Interlace | |
| Synchronization | | Internal / Line Lock | |
| System Scanning | | 50 Hz (VD) | 59.94 Hz (VD) |
| Frequency Resolution | | 600TV Lines | |
| S/N Ratio | | More than 52 dB (AGC Off, F1.0) | |
| Minimum Illuminance | Day | 0.00002 Lux (Sens-Up Auto, F1.2) (0.1Lux : Sens-Up Off) | |
| | Night | 0.00002 Lux (Sens-Up Auto, F1.2) (0.01Lux : Sens-Up Off) | |

| Model | PAL | NTSC |
|---|---|---|
| Video Output Signal | 1.0-Vp-p Composite Signal (75Ω) | |
| Auto Gain Control | OFF / LOW / MIDDLE / HIGH | |
| Exposure | ALC / ELC | |
| Electric Shutter | 1/50 - 1/90,000 (Auto Mode) | 1/60 - 1/90,000 (Auto Mode) |
| White Balance | ATW / AWC -> PUSH / MANUAL | |
| Back Light | OFF / BLC / HSBLC | |
| EIS | ON / OFF | |
| MOTION DET. | ON / OFF | |
| Power Consumption | 4.4W | |
| Operation Temperature | -10℃~50℃ (Humidity : 0%RH~80%RH) | |
| Weight | 300g | |
| Dimension (H x V x D) | 67.93 x 61.7 x 105 mm | |

MENU MEMO