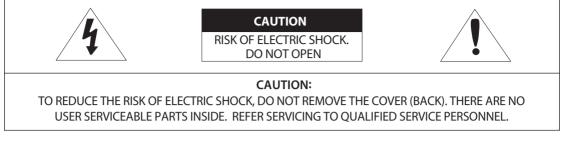


Super Speed Dome PTZ39X PTZ Outdoor Dome Camera

User's Manual

Before installing and using the camera, please read this manual carefully. Be sure to keep it handy for future reference.

Safety Information



4

This symbol indicates that dangerous voltage consisting a risk of electric shock is present within this unit.



This exclamation point symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance

WARNING

To prevent damage which may result in fire or electric shock hazard, do not expose this appliance to rain or moisture.

WARNING

- 1. Be sure to use only the standard adapter that is specified in the specification sheet. Using any other adapter could cause fire, electrical shock, or damage to the product.
- 2. Incorrectly connecting the power supply or replacing battery may cause explosion, fire, electric shock, or damage to the product.
- 3. Do not connect multiple cameras to a single adapter. Exceeding the capacity may cause abnormal heat generation or fire.
- 4. Securely plug the power cord into the power receptacle. Insecure connection may cause fire.
- 5. When installing the camera, fasten it securely and firmly. A falling camera may cause personal injury.
- 6. Do not place conductive objects (e.g. screw drivers, coins, metal things, etc.) or containers filled with water on top of the camera. Doing so may cause personal injury due to fire, electric shock, or falling objects.
- 7. Do not install the unit in humid, dusty, or sooty locations. Doing so may cause fire or electric shock.
- 8. If any unusual smells or smoke come from the unit, stop using the product. In such case, immediately disconnect the power source and contact the service center. Continued use in such a condition may cause fire or electric shock.
- 9. If this product fails to operate normally, contact the nearest service center. Never disassemble or modify this product in any way.
- 10. When cleaning, do not spray water directly onto parts of the product. Doing so may cause fire or electric shock.
- 11. When ambient temperature is below the freezing point, the dome cover will frost and the power. will fail. In this case, install or reboot the system, and the frost will disappear 3 hours after turning on the power.

[Note that the lowest guaranteed operating temperature is -45°C/-49°F without wind.]

Safety Information

CAUTION

- 1. Do not drop objects on the product or apply strong shock to it. Keep away from a location subject to excessive vibration or magnetic interference.
- 2. Do not install in a location subject to high temperature (over 50°C), low temperature (below -10°C), or high humidity. Doing so may cause fire or electric shock.
- 3. If you want to relocate the already installed product, be sure to turn off the power and then move or reinstall it.
- 4. Remove the power plug from the outlet when there is a lightning. Neglecting to do so may cause fire or damage to the product.
- 5. Keep out of direct sunlight and heat radiation sources. It may cause fire.
- 6. Install it in a place with good ventilation.
- 7. Avoid aiming the camera directly towards extremely bright objects such as the sun, for this may damage the CCD image sensor.
- 8. The camera shall not be exposed to dripping or splashing, and no objects filled with liquids, such as vases, shall be placed on the camera.
- 9. The main plug used to disconnect the device shall stay readily operable at any time.

Safety Instructions

WARNING

- 1. Read these instructions.
- 2. Keep these instructions.
- 3. Regard all warnings.
- 4. Follow all instructions.
- 5. Do not use this camera near water.
- 6. Clean only with dry cloth.
- 7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- 8. Do not install near any heat sources such as radiators, heat registers, or other apparatuses that produce heat.
- 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 is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for a replacement.
- 10. Protect the power cord from being walked on or pinched particularly at or near 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 cart, stand, tripod, bracket, or table specified by the manufacturer or sold with the camera.



- 13. Unplug this camera when a cart is used. Use caution when moving the cart that contains the camera to avoid injuries that can result from the camera falling over.
- 14. Refer all servicing to qualified service personnel. Servicing is required when the camera has been damaged in any way, such as power supply cord or plug is damaged, liquid has spilled on the the camera, objects have fallen into the camera, the camera has been exposed to rain or moisture, the camera does not operate normally, or the camera has dropped.

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2 Safety Information 4 Safety Instructions INTRODUCTION 6 Features 7 Product & Accessories 8 Parts Name 9 DIP Switch Setup INSTALLATION 11 Installation 14 Cabling OSD MENU 16 Check Points before Operation 17 Functions 18 OSD Display of Main Screen 19 General Rules of Key Operation for Menu 20 OSD - ROOT MENU & SYSTEM INFORMATION 21 OSD - DISPLAY SETUP > CAMERA ID 22 OSD - DISPLAY SETUP > PRIVACY ZONE 24 OSD - MOTION SETUP 26 OSD - FUNCTION SETUP > PRESET SETUP 28 OSD - FUNCTION SETUP > SCAN SETUP 29 OSD - FUNCTION SETUP > PATTERN SETUP 30 OSD - FUNCTION SETUP > GROUP SETUP 32 OSD - FUNCTION SETUP > SCHEDULE SETUP 34 OSD - CAMERA SETUP > WB SETUP 35 OSD - CAMERA SETUP > AE SETUP 37 OSD - CAMERA SETUP > SPECIAL 38 OSD - INTELLIGENCE > MASK AREA 39 OSD - INTELLIGENCE > ALARM OUT 40 OSD - SYSTEM SETUP 42 OSD - SYSTEM INITIALIZE

SPECIFICATIONS

- 43 Dimension
- 44 Specification PTZ39X

Features

CAMERA SPECIFICATIONS

- CCD Sensor: EX-View HAD[™] CCD
- Zoom Magnification: ×39 Optical, ×12 Digital Zoom
- Wide Dynamic Range
- Day & Night Function: ICR (IR Cut filter Removal)
- Various Focus Mode: Auto Focus/Manual Focus/ Semi-Auto Focus
- Independent or Global Camera Settings for Each
 Preset Location

POWERFUL PAN/TILT FUNCTIONS

- Maximum 360°/SEC High Speed Pan/Tilt Motion
- Vector Drive Technology: Pan/Tilt Motions are accomplished in the shortest path. As a result, time to target view is reduced dramatically and the video on the monitor is very natural to watch.
- Ultra low speed (0.05°/SEC) enables operator to locate camera to desired target view with accuracy and ease.
- Zoom-Proportional Pan/Tilt speed helps operator to move the camera easily.

PRESET, PATTERN, SCAN, GROUP, PRIVACY ZONE, SCHEDULE, AND MORE...

- Maximum 127 presets are assignable. Each of them have independent characteristics, such as white balance, auto exposure, label, alarm input/output, etc.
- Maximum 8 set of scans can be stored. This enables user to move camera repetitively between two preset positions with designated speed.
- Maximum 4 patterns can be recorded and played back. This enables the camera to follow any trajectory operated by the joystick as closely as possible.
- Maximum 8 set of group actions can be stored. This enables the camera to move repetitively between different combination of preset, pattern, or scan. A group is composed of maximum 20 entities of preset, pattern, or scan.
- Maximum 8 privacy zones can be set up to protect privacy of other people.
- 7 rules of schedule can be assigned by day and time. Appropriate actions (such as home, preset, scan, pattern, and group) can be defined for each rule. Also, it is possible to use weekday and all days to simplify the rule.

PTZ (PAN/TILT/ZOOM) CONTROL

- With RS485 communication, a maximum of 255 cameras can be controlled at the same time.
- Auto, Pelco-D, Pelco-P, Samsung, Panasonic, Kalatel, AD(American Dynamics) protocol can be selected as a control protocol in the current version of firmware.

OSD(ON-SCREEN DISPLAY) MENU

- OSD Menu is provided to display the status of camera and to configure the functions interactively.
- Camera ID, Pan/Tilt/Zoom/Direction, Alarm Input/ Output, Date/Time, Current Temperature, and Preset are displayed on screen.
- Each display item can be turned on or off independently.

ALARM I/O FUNCTIONS

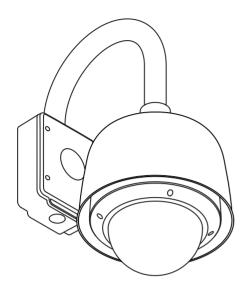
- 8 alarm sensor inputs and 4 relay output are available.
- To reject external electric noise and shock perfectly, alarm sensor input is decoupled with photo coupler.
- The signal range of sensor input is from DC 5.0 to 12.0 volts to adopt various applications.
- If an external sensor is activated, camera can be set to move to the corresponding preset position.
- Relay outputs can be assigned to work with a certain preset.

RESERVED PRESETS FOR SPECIAL PURPOSE

• Most of camera settings are directly changed by calling reserved presets, not entering into OSD menu. For more information, refer to "Reserved Presets" (page 18) of this manual.

Product & Accessories

Product



Wall Mount





Housing Safety Cable Hanger



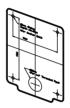
Waterproof Tape





Anchor Bolt (4pcs)

Hexagonal Wrench



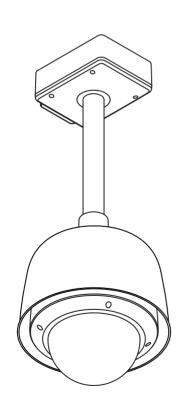


Hole Template

User's Manual



Safety Wire

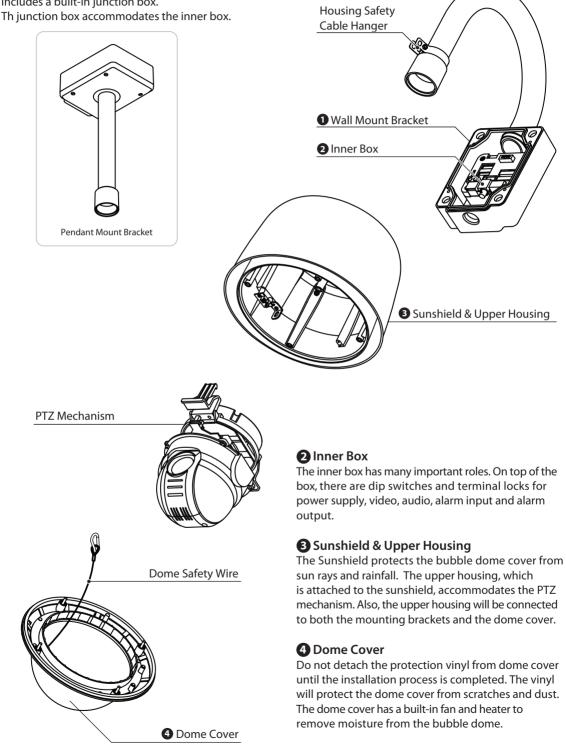


Pendant Mount

Part Name

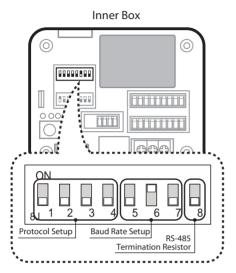
1 Wall or Pendant Mount Bracket

The Wall or Pendant Mount Bracket is used to install the camera onto the wall or ceiling. It includes a built-in junction box.



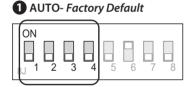
DIP Switch Setup

Before installing the camera, you should first set the DIP Switch to configure the Camera ID (Communication Protocol).



1. Communication Protocol Setup

Configure the appropriate protocol using the DIP switch combination.



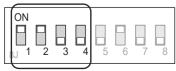
2 PELCO-D



B PELCO-P



4 SAMSUNG



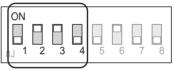
5 PANASONIC



6 GE(Kalatel)



AD (American Dynamics)



- If you set the protocol as AUTO, camera will automatically recognize the type of protocol being used; however, this will not recognize the AD protocol.)
- If you want to control the camera using the DVR or a system keyboard, the protocol must be. identical to the camera protocol. Otherwise, you will not be able to control the camera.
- If you change the camera protocol by adjusting the DIP switch, the change will be effective after you reboot the camera.

DIP Switch Setup

2. Communication Baud Rate Setup

Select the appropriate Baud Rate using the following DIP switch combination.

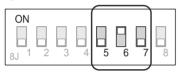
1 2400 BPS



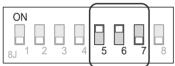
2 4800 BPS



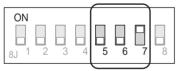
3 9600 BPS - Factory Default



4 19200 BPS



5 38400 BPS

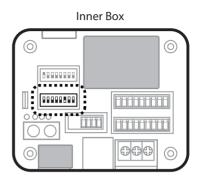


3. RS-485 Termination Resistor



- Pin 8 is used to turn ON / OFF the the RS-485 termination. Normally, it should be set as OFF.
- When you have trouble with long daisy chain style connection, turn ON this termination switch for the last camera.

4. Camera ID Setup

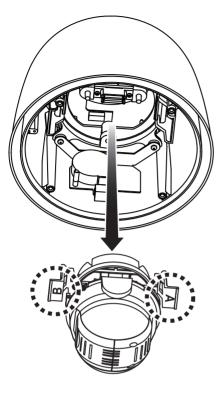


The ID number of camera is set using binary number. The examples are shown below.

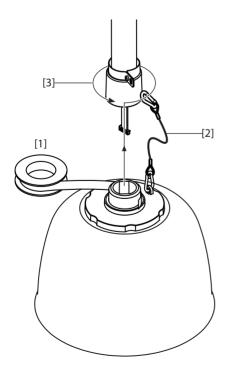
| Pin | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|-----------|-----|-----|-----|-----|-----|-----|-----|-----|
| ID Value | 1 | 2 | 4 | 8 | 16 | 32 | 64 | 128 |
| ex) ID=5 | ON | OFF | ON | OFF | OFF | OFF | OFF | OFF |
| ex) ID=10 | OFF | ON | OFF | ON | OFF | OFF | OFF | OFF |

- If you want to control a certain camera, you must match the Camera ID with the CAM ID setting of your DVR or keyboard controller.
- The range of Camera ID is 0~255. Factory default of Camera ID is 1.

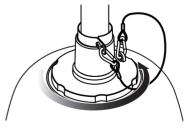
Installation



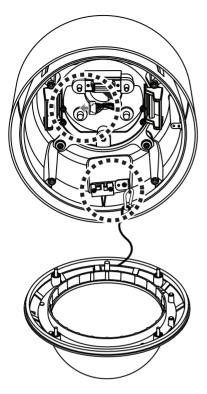
You have to detach the PTZ mechanism from the upper housing to plug the cable connector. To detach PTZ mechanism, press down and hold against both sides of the black handles on the PTZ mechanism.



- **6** [1] Wind the waterproof tape around the pipe of the upper housing.
 - [2] Hook the safety wire to the hole of the safety cable hanger.
 - [3] Attach the upper housing to wall mount bracket by turning it at least seven times.
 - To secure the upper body orientation, turn the handle of double nuts clockwise until it is tight.

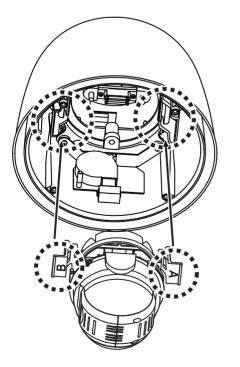


Installation



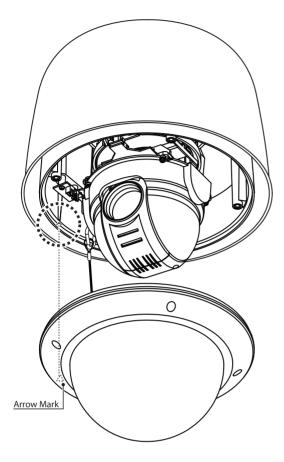
Plug the main cable into the main connector that is located on the upper housing and press the main cable until it sounds snap to lock.

8 Plug safety wire into the connectors located on the upper housing.

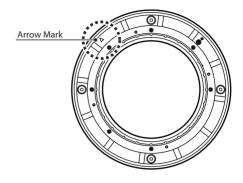


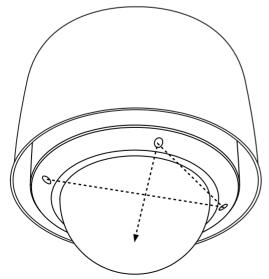
- Plug the cable connector from the junction box properly. Align the one touch connectors in the upper housing with that of the PTZ mechanism and force into place.
- To lock the PTZ mechanism to the upper housing, press the two black handles and push the PTZ mechanisim into the upper housing until it sounds snap.

Installation



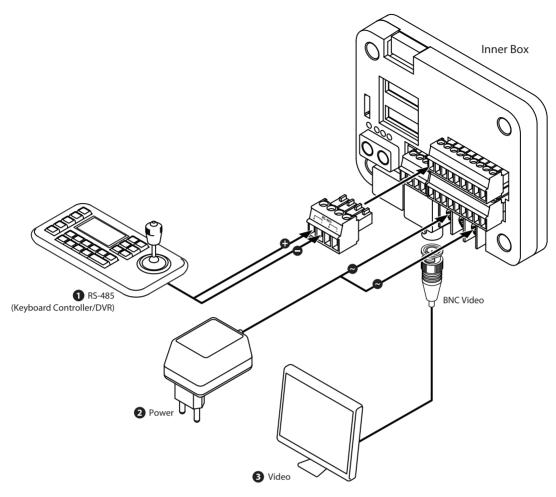
Close the dome cover carefully. Match the "Arrow Mark" to find the right location.





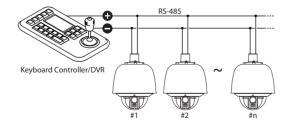
- Dighten the four screws on the dome cover in the same sequence shown in the picture.
 - ☑ To maintain the best sealing, the torque of each screw must be in the range between 0.5 ~ 1.0 N·m (0.3 ~ 0.73 lbf·ft).

Cabling



RS-485 Communication (DVR/Keyboard)

For PTZ control, connect this line to keyboard and DVR. To control multiple cameras at the same time, the RS-485 communication lines are connected in parallel as shown below.



2 Power Connection

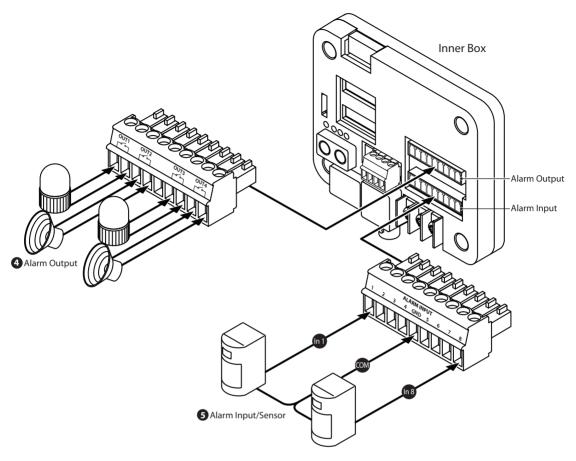
Please check the voltage and the current capacity of rated power carefully.

| Rate Power | Input Voltage Range | Current Consumption |
|------------|------------------------|------------------------|
| AC 24V | AC 19V ~ 29V | 2.5A |

3 Video Connection

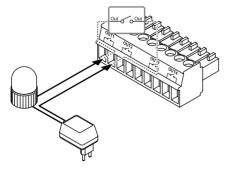
Connect with BNC coaxial cable.

Cabling



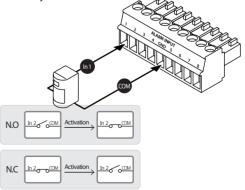
Alarm Output

The 4 alarm outputs are the relay contact type. Therefore, you do not have to worry about the polarity, AC/DC, and isolations between channels. However, regard the power capacity of relay contact written above.



5 Sensor Input

To use alarm input, select the type of sensor to you wish to use. The sensor types are "Normal Open" and "Normal Close." If sensor type is not selected properly, the alarm can be activated reversely.



☑ It is noted that short circuit between GND and Input Pin means alarm activation.

Check Points Before Operation

- 1. Before power is applied, please check the cables carefully.
- 2. The camera ID of the controller must be identical to that of the camera you wish to control. You can check the camera ID in the system information of the OSD menu.
- 3. If your controller supports multi-protocols, the protocol must be changed to match that of the camera.
- 4. If you changed camera protocol by changing DIP switch, the change will be effective after you reboot the camera.
- 5. Since the operation method can be different for each controller available, refer to the manual for your controller if camera can not be controlled properly.

1 Preset and Pattern Function Pre-check

Check how to operate preset, pattern, scan, and group functions with keyboard controller or DVR in advance to operate the PTZ camera with it. (Refer to your keyboard or DVR manual.)

If keyboard controller/DVR has no pattern key or function, use shortcut keys with preset numbers. For more information, refer to "Reserved Preset" below.

2 Reserved Preset

Some preset numbers are reserved for special functions.

Preset key + 95: Opens OSD menu Preset key + 131~134: Runs pattern function 1 ~ 4 Preset kev + 141~148: Runs scan function 1~8 Preset key + 151~158: Runs group function 1~8 Preset key + 161~164: Sets relay 1~4 output to OFF Set key + 161~164: Sets relay 1~ 4 output to ON Preset key + 165: Sets auto calibration to ON Preset key + 166: Sets auto calibration to OFF Preset key + 167: Zoom proportional jog ON Set key + 167: Zoom proportional jog OFF Preset key + 170: Sets camera BLC mode to OFF Preset key + 171: Sets camera BLC mode to HIGH Preset key + 174: Sets camera focus mode to AUTO Preset key + 175: Sets camera focus mode to MANUAL Preset key + 176: Sets camera focus mode to SEMI-AUTO Preset key + 177: Sets day & night mode to AUTO Preset key + 178: Sets day & night mode to NIGHT Preset key + 179: Sets day & night mode to DAY Preset key + 190: Sets OSD display mode to AUTO (except privacy mask) Preset key + 191: Sets OSD display mode to OFF (except privacy mask) Preset key + 192: Sets OSD display mode to ON (except privacy mask) Preset key + 193: Sets all privacy mask display to OFF Preset key + 194: Sets all privacy mask display to ON Preset key + 200: Sets digital zoom to ON Preset key + 201: Sets digital zoom to OFF

BAuto Calibration

If the camera is continuously subject to very high temperatures (over 50°C or 122°F) for a long period, the camera can lose focus and produce blurry images. In this case, it is recommended to turn on AUTO CALIBRATION by running preset 165.

If you execute AUTO CALIBRATION, the camera will calibrate its focus for 10 seconds every 24 hours. To turn OFF this function, please, run preset 166.

Open OSD Menu

Using the OSD menu, preset, pattern, scan, group, and alarm input function can all be configured for your application. Run preset 95 to open your OSD menu and begin configuring your camera.

Functions

Preset

Maximum 127 positions can be stored as preset positions. The numbers 1 to 128 can be assigned as preset numbers, but 95 is reserved for starting the OSD menu.

See section ROOT MENU > FUNCTION SETUP > PRESET SETUP.

 Set Preset Method 1) Use keyboard controller:
 ☑ Refer to your system keyboard manual. Method 2) Use OSD menu.

- 2. Run Preset Method 1) Use keyboard controller: Preset key + Number key (1~128)
- 3. Delete Preset

To delete preset, use OSD menu.

2 Scan

The scan function allows camera to move repeatedly between 2 preset positions.

See section ROOT MENU > FUNCTION SETUP > SCAN SETUP.

1. Set Scan

To set scan, use OSD menu.

2. Run Scan

Method 1) Scan key + Scan no. $(1 \sim 8)$ + Enter key Ex. Run scan 2 = Scan key + [2] + Enter key

Method 2) Preset key + [Scan no. $(1 \sim 8)$ + 140] Ex. Run scan 2 = Preset key + [142]

3. Delete Scan

To delete scan, use OSD menu.

B Pattern

Pattern function allows the camera to memorize a path created by a joystick controller and then revive the path exactly as it memorized for an assigned time.

See section ROOT MENU > FUNCTION SETUP > PATTERN SETUP.

1. Set Pattern To set pattern, use OSD menu.

2. Run Pattern
Method 1) Pattern key + Pattern no. (1~4) + Enter key
Ex. Run pattern 2 = Pattern key + [2] + Enter key
Method 2) Preset key + [Pattern no. (1~4) + 130]
Ex. Run pattern 2 = Preset key + [132]

3. Delete Pattern To delete pattern, use OSD menu.

When the pattern is saved or executed, the pan/tilt is operated with AUTO FLIP-OFF.

4 Group

The group function allows you to run a sequence of presets, pattern, and/or scans.

See section ROOT MENU > FUNCTION SETUP > GROUP SETUP.

1. Set Group

To set group, use OSD menu.

2. Run Group

Method 1) Group key + Group no. (1~8) + Enter key Ex. Run group 2 = Group key + [2] + Enter key

Method 2) Preset key + [Group no. (1~8) + 150] Ex. Run group 2 = Preset key + [152]

3. Delete Group

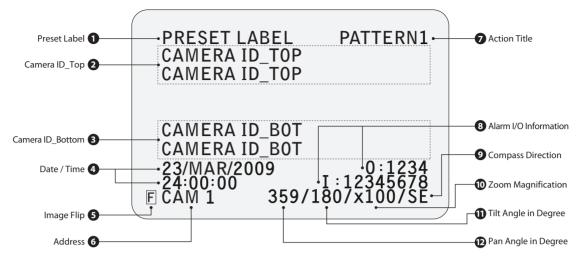
To delete group, use OSD menu.

5 Schedule

The schedule function allows you to run an appropriate function like preset, scan, group, pattern, home, or move at a designated day and time.

See section ROOT MENU > FUNCTION SETUP > SCHEDULE SETUP.

OSD Display of Main Screen



Preset Label

- The label stored for a specific preset.
- See section ROOT MENU > FUNCTION SETUP > PRESET SETUP > LABEL.

2 Camera ID_Top

- If CAMERA ID is set to TOP, Camera ID will display in this are a.
- See section ROOT MENU > DISPLAY SETUP > CAMERA ID.

Camera ID_Bottom

- If CAMERA ID is set to BOT, Camera ID will display in this area.
- See section ROOT MENU > DISPLAY SETUP > CAMERA ID.

Date / Time

- Shows the current date and time.
- See section ROOT MENU > SYSTEM SETUP > DATE/TIME SETUP.

5 Image Flip

- Indicates the images that has been reversed by the auto flip function.
- See section ROOT MENU > CAMERA SETUP > IMAGE FLIP.

6 Address

- Shows the current RS-485 address information.
- See section ROOT MENU > SYSTEM INFORMATION.

Action Title

The following are examples of action titles with their descriptions.

| Action Title | Description |
|------------------|--|
| SET PRESET 123 | Store preset 123. |
| PRESET 123 | It reached preset 123. |
| PATTERN 9 | The camera is running pattern 9. |
| SCN 1/PRESET 123 | The camera is running scan 1. |
| RANGE OVER | The action received is not within the range supported. |
| UNDEFINED | The action received is not defined. |

8 Alarm I/O Information

- This information shows the current status of alarm input and output.
- "I" means input, and "O" means output.
- If the alarm input is ON, it will show the number of the input. If an input is OFF, "-" will be displayed. "O:1 - - -" means output 1 is ON and other outputs are OFF.
- Ex. When input 2 is ON and output 1 is ON, OSD will display as below.



O Compass Direction

- Shows the current compass direction of the camera.
- The direction is shown as N(North), S(South), E(East), W(West), NE(Northeast), NW(Northwest), SE(Southeast), SW(Southwest).
- See section ROOT MENU > SYSTEM SETUP > SET NORTH DIRECTION.

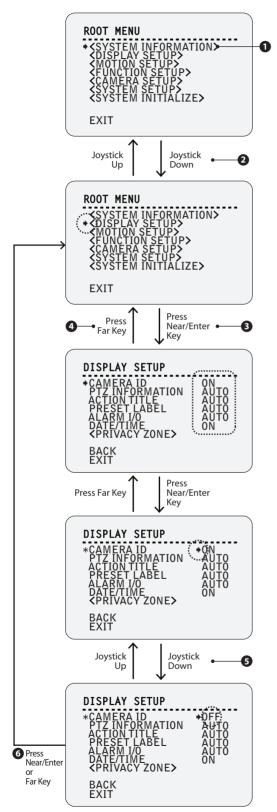
Zoom Magnification

Shows the current zoom magnification.

1 Degree Tilt / Pan Angle in Degree

Shows the current tilt (0 ~ 180) and pan(0 ~ 359) angle.

General Rules of Key Operation for Menu



The characters < > that surround the menu item indicate that there is a sub menu.

2 Move among the different selections in the menu list using the joystick in the Up/Down or Left/Right direction.

- **3** To enter a sub-menu, press Near or Enter key.
- 4 To go back a menu, press Far key.
- **5** To change a value of an item, move the joystick in the Up/Down direction.
- Press Near or Enter key to save values and press Far key to cancel values.

OSD -ROOT MENU & SYSTEM INFORMATION

0



1 ROOT MENU

<SYSTEM INFORAMTION>

Shows system information and current system configuration.

<DISPLAY SETUP> Enable/Disable OSD display on main screen.

<MOTION SETUP> Configures motion related settings.

<FUNCTION SETUP>

Configures various functions such as preset, scan, pattern, group, and schedule.

<CAMERA SETUP> Configures camera related functions and data.

<INTELLIGENCE> Configures camera to detect an object moving or changing.

<SYSTEM SETUP>

Configures the basic system setup.

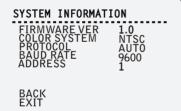
<SYSTEM INITIALIZE>

Initializes system configuration and sets all data to factory default configuration.

EXIT

Exits the OSD setting.





1 SYSTEM INFORMATION

FIRMWARE VER

Shows the current firmware version.

COLOR SYSTEM

Shows the current analog video system.

PROTOCOL

PROTOCOL Shows the current PTZ control protocol.

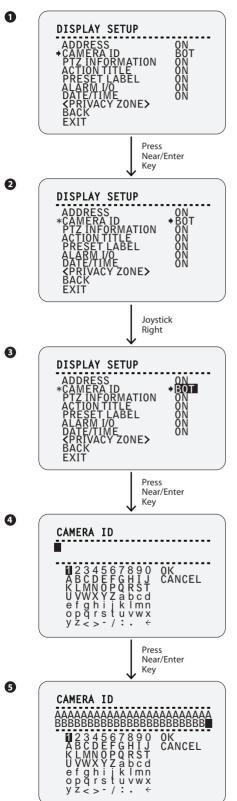
BAUD RATE

Shows the current baud rate of the PTZ control.

ADDRESS

Shows the current camera ID of the PTZ control.

OSD -DISPLAY SETUP > CAMERA ID



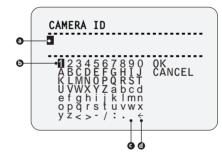
1 DISPLAY SETUP

This menu defines what is displayed on the OSD of the main screen. If an item is set to be AUTO, the item is displayed only when its is changed.

| | J |
|--|--|
| ADDRESS | ON / OFF |
| CAMERA ID Select the camera ID I | BOT / TOP / OFF ocation. Refer to "OSD Display of Main Screen." |
| PTZ INFORMATION | ON / OFF / AUTO |
| ACTION TITLE | ON / OFF / AUTO |
| PRESET LABEL | ON / OFF / AUTO |
| ALARM I/O | ON / OFF / AUTO |
| DATE/TIME | ON / OFF |
| < PRIVACY ZONE > Starts Privacy Zone M | ask Setup Menu. |

3 CAMERA ID - Alphabet Input

- Set the Camera ID to display on top (TOP) or bottom (BOT). Give the Camera ID a unique name. The menu will appear when TOP or BOT is selected.
- Maximum 48 characters, including space, are allowed.



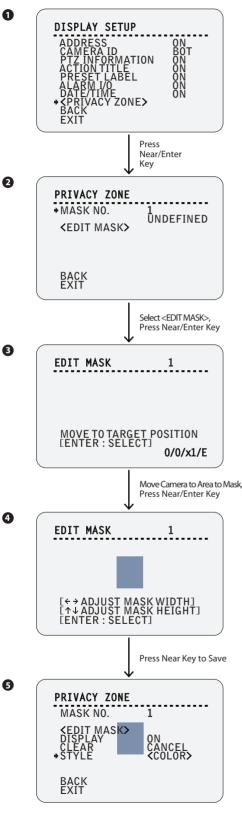
- Current Cursor Position: In the CAMERA ID menu, a black box functions as a cursor. As soon as a character is selected, the cursor moves to the next digit.
- Selecting Alphabet: Move the joystick Up/Down/Left/Right to the appropriate character from the character set you wish to select. To choose the character, press the Near or Enter key.
- G Space: If you want to use blank, choose space character ("").
- **Backspace:** If you want to delete a character in front, use back space character (" \leftarrow ").

4 CAMERA ID - Complete Editing

When you complete the camera ID editing, move the cursor to OK and press Near key to save the completed camera ID. To disregard the current change, move the cursor to CANCEL and press the Near key.

()51) -ISPLAY SETUP > PRIVACY ZONE





1 DISPLAY SETUP

See the previous page.

EDIT MASK - Move to Target Position

Move camera to area you wish to mask. Then the menu to adjust the mask size will be displayed.

- If the tilt angle is located in the range between 90° to 90°, you can not set up privacy zone mask.
- ☑ If a tilt angle over 90° (image flipped region) is designated, camera will automatically move to that position by moving the pan angle 180° and then adjusting the tilt angle as necessary.

EDIT MASK - Adjust Mask Size

Adjust mask size. Use joystick or arrow buttons to adjust mask size.

- Move Joystick Left/Right(◀ ►): Adjust Mask Width.
- Move Joystick Up/Down(▲▼): Adjust Mask Height.
- To hide a certain zone completely regardless of high speed pan/ tilt motions, it is recommended that the size of mask must be 20% bigger than original target size.
- It is noted that during pan/tilt control like jog action, the object behind the privacy mask can be disclosed in a short period of time.

G PRIVACY ZONE

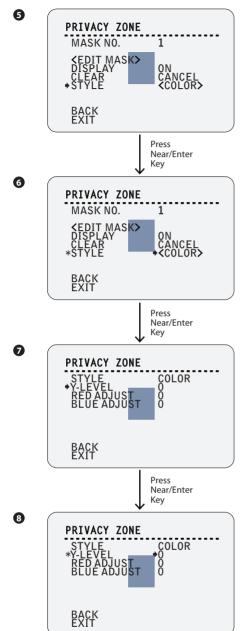
Selects area in image to mask.

| | 1 ~ 12 nber. If the selected mask has already been saved, it was set. Otherwise, "UNDEFINED" will be MASK NO. |
|------------------------------|--|
| DISPLAY Sets the camera t | ON / OFF o display or hide the masks on images. |
| | |

CI FAR MASK CANCEL / OK Deletes data in the selected mask no.

STYLE <COLOR> / MOSAIC 1~4 Sets the style of the mask. See the next page.

OSD -DISPLAY SETUP > PRIVACY ZONE



PRIVACY ZONE - STYLE > COLOR

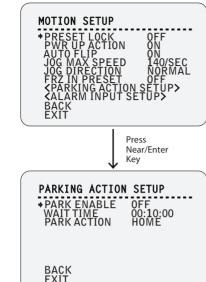
| Sets the color of the mask. | |
|-----------------------------|--|
| | |

| Y-LEVEL Set the Y-LEVEL o | 0 ~ 100 f the mask. | |
|-------------------------------------|------------------------|--|
| RED ADJUST | 0~100 | |
| BLUE ADJUST | 0~100 | |

OSD -MOTION SETUP



0



1 MOTION SETUP

Configures the general functions of pan/tilt motions.

PRESET LOCK ON / OFF

If motion lock is set to ON, it will be impossible to setup or delete a preset, scan, pattern, and/or group. It will only be possible to run those functions. To setup and delete those functions, go to OSD menu.

PWR UP ACTION ON / OFF

This function enables you to resume the last action executed before the power went down. Most actions such as preset, pattern, scan, and group resume for this function, but jog action does not resume with this function.

AUTO FLIP ON / OFF

When the tilt angle arrives to the top of tilt orbit (90°), zoom module camera continues moving opposite of the tilt direction (180°) to continue tracing targets. As soon as zoom module camera passes through the top of the tilt direction (90°), images should be reversed automatically and Eappears on the screen. If this function is set to OFF, tilt movement range is 0° ~ 90°.

JOG MAX SPEED 2/SEC ~ 200/SEC

Sets maximum jog speed. Jog speed is inversely proportional to zoom magnification. As zoom magnification goes up, pan/tilt speed goes down.

JOG DIRECTION INVERSE / NORMAL

If you set this to NORMAL, the view on the screen is moving in the same direction with jog tilting. If INVERSE is selected, the view on the screen is moving reversely.

FRZ IN PRESET ON / OFF

When present movement begins, the camera captures the image of the beginning point. Camera will display the captured image during the present movement and will not display the images the camera receives during the movement. As soon as the camera stops at the preset end point, the camera begins to display the live images it receives at the end point.

<PARKING ACTION SETUP>

Opens PARKING ACTION SETUP screen.

<ALARM INPUT SETUP>

Opens ALARM INPUT ACTION screen.

2 PARKING ACTION SETUP

If PARK ENABLE is set to ON, camera runs assigned function automatically if there is no PTZ command during assigned WAIT TIME.

| PARK ENABLE | ON / OFF | |
|---|---------------------|--|
| WAIT TIME | 00:00:05 ~ 04:00:00 | |
| The time is displayed in "HH:MM:SS" format, and the time can be | | |
| changed by 1 second unit. | | |

1. To place the cursor on the time marked as shown below, press Near key.

00:10:00

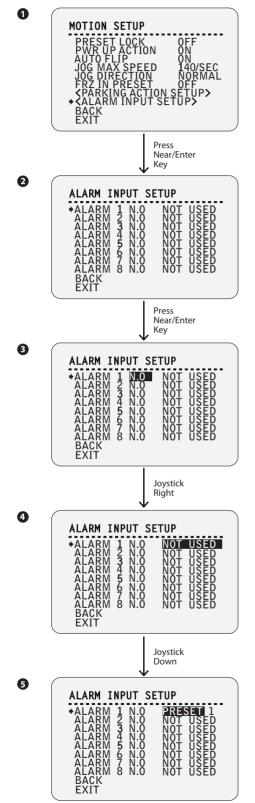
- 2. Move joystick left/right to adjust hours, minutes and seconds.
- 3. Move joystick up/down to select the digit.

4. By pressing Near key, save the current setting.

PARKING ACTION HOME / PRESET 1~128 / SCAN 1~8 / PATTERN 1~4 / GROUP 1~8

Ex. If HOME is selected for park action, camera will move to home position when there is no PTZ command during the assigned WAIT TIME.





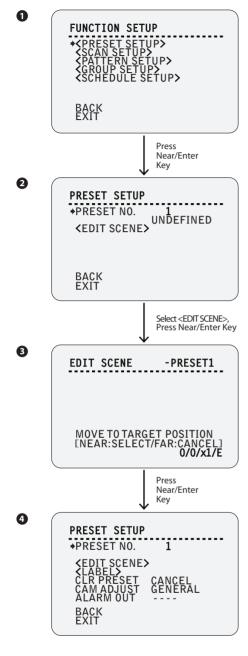
2 ALARM INPUT SETUP

If an external sensor is activated, camera will move to the corresponding action.

Alarm Type: N.O (Normal Open) / N.C (Normal Close) Sets the sensor input type.

Alarm Action NOT USED / HOME / PRESET 1~128 / SCAN 1~8 / PATTERN 1~4 / GROUP 1~8 For each alarm input, you can assign the counteraction functions (Preset, Scan, Pattern, Group).

OSD -FUNCTION SETUP > PRESET SETUP



1 FUNCTION SETUP

Configure 5 special functions with this menu.

2 PRESET SETUP - Undefined

127 presets (1 ~ 128) can be assigned excluding the number 95, which is reserved for OSD menu.

PRESET NO. 1 ~ 128 (Excluding 95)

If a selected preset is already defined, camera moves to pre-defined position and preset characteristics such as label and relay outputs appear on monitor. (Refer to screen ④) If a selected preset is not defined, UNDEFINED will appear on monitor.

<EDIT SCENE>

Redefine the current preset scene position (i.e. PTZ).

BEDIT SCENE

- 1. Using the joystick, move camera to the desired position.
- 2. By pressing Near key, save the current PTZ data.
- 3. Press Far key to cancel.

4 PRESET SETUP

If the preset is defined, the information will be shown on the OSD menu with the setting, and the alarm device (if defined) will be activated.

| PRESET NO. | 1 ~ 128 (Excluding 95) |
|------------------------|------------------------|
| <edit scene=""></edit> | |

<LABEL>

Edits Label to show on the monitor when the preset runs. Maximum 10 characters are allowed.

CAM ADJUST GENERAL / SPECIAL

- WB (White Balance) and AE (Auto Exposure) can be set independently for each preset.
- GENERAL: WB or AE can be set completely and simultaneously for all presets in ROOT MENU > CAMERA SETUP menu.
- **SPECIAL:** WB or AE can be set independently or separately for each preset in each preset setup menu.
- Each special WB/AE value should be activated correspondingly when camera arrives at each preset location. During jog operation, general WB/AE value should be applied.
- The special WB/AE value should not be changed when the general WB/AE value is changed. If SPECIAL is selected, the menu to set the special WB/AE appears on the monitor.

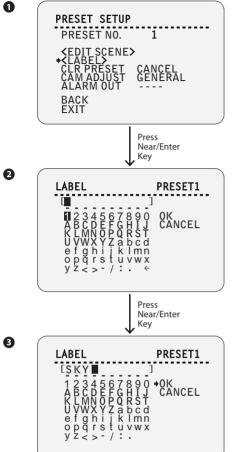
ALARM OUT ---- ~ 1 2 3 4

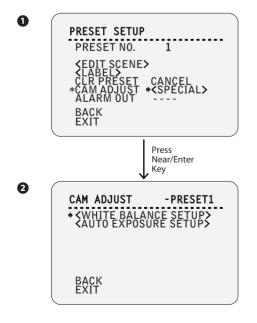
The status of four alarm outputs can be freely controlled in conjunction with preset run. The character "-" means the alarm output is OFF, and the number which represents the alarm means ON.

Ex. " - 2 3 - " means output relay 2 and 3 will be ON, and 1 and 4 will be OFF, when you run this preset.

JNCTION SETUP > PRESET SETUP

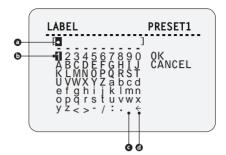






2LABEL

Edits the label to show on monitor when camera arrives at presets.



- **Ourrent Cursor Position:** In edit label menu, a black box acts as a cursor. As soon as you select a character, the cursor moves to the next digit.
- **b** Selecting Alphabet: Using left/right/up/down of joystick, move to an appropriate character from the character set. To select the character, press the Near or Enter key.
- G Space: If you want to use blank, choose space character (" ").
- **O** Backspace: If you want to delete a character in front, use back space character (" \leftarrow ").

E LABEL - Complete Editing

If you complete the label editing, move the cursor to OK and press Near key to save the completed label. To disregard the current change, move the cursor to CANCEL and press the Near key

2 CAM ADJUST

Edits label to show on monitor when the camera arrives at presets.

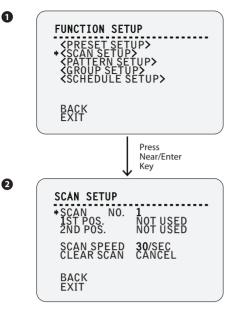
<WHITE BALANCE SETUP>

See the section ROOT MENU > CAMERA SETUP > WB SETUP.

<AUTO EXPOSURE SETUP>

See the section ROOT MENU > CAMERA SETUP > AE SETUP.

OSD -FUNCTION SETUP > SCAN SETUP

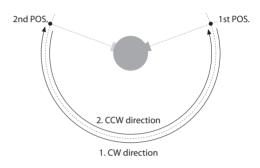


2 SCAN SETUP

By using the scan function, you can make the camera to move between 2 preset positions repeatedly.

When the scan function runs, the camera moves from the preset assigned as the 1st point to the preset assigned as the 2nd point in CW (Clockwise) direction. Then the camera moves from the preset assigned as the 2nd point to the preset assigned as the 1st point in CCW (Counterclockwise) direction.

In case that the preset assigned as the 1st point is same as the preset assigned as the 2nd point, the camera turns on its axis by 360° in CW direction and then it turns on its axis by 360° in CCW direction.

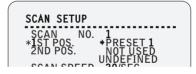


SCAN NO.

Selects the scan number to edit. If a selected scan has not defined, NOT USED is displayed in 1st position and 2nd position.

1~8

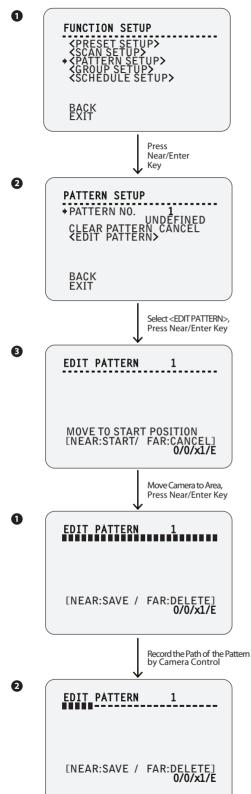
1ST POS. / 2 ND POS. PRESET 1 ~ 128 / NOT USED Set up the 2 position for scan function. If a selected preset is not defined, UNDEFINED will be displayed as shown below.



SCAN SPEED 1/SEC ~ 180/SEC Sets the speed of the scan.

CLEAR SCAN CANCEL / OK Deletes the current scan data.

OSD -FUNCTION SETUP > PATTERN SETUP



2 PATTERN SETUP

Pattern function is when a camera memorizes the path (mostly curve path) created by a joystick controller and revives the path exactly as it memorized for an assigned time.

4 patterns are available and maximum 1000 communication commands can be stored in a pattern.

PATTERN NO. 1 ~ 4

Select pattern number to edit. If a selected pattern number is not defined, UNDEFINED will be displayed under the selected pattern number.

CLEAR PATTERN CANCEL / OK Deletes data in the current pattern.

<EDIT PATTERN>

Starts editing pattern.

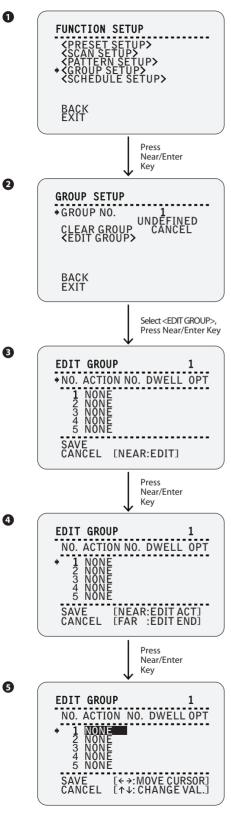
3 EDIT PATTERN - Selects the Position

- 1. By using joystick, move to the start position with appropriate zoom.
- 2. To start the pattern recording, press Near or Enter key.
- 3. To exit this menu, press Far key.

4 EDIT PATTERN - Recording

- 1. Move the camera with joystick controller or run preset function to memorize the path (mostly curve path) in a selected pattern.
- 2. The total memory size and the rest memory size is displayed in the form of a bar.
- 3. To save data and exit, press Near key.
- 4. To cancel recording and delete the recorded data, press Far key.

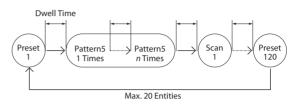
OSD -FUNCTION SETUP > GROUP SETUP



2 GROUP SETUP

The group function allows you to run sequence of presets, pattern, and/or scans. Maximum 8 groups can be stored. Each group can have a maximum of 20 action entities which can be preset, pattern, or scan.

The preset speed and the repeat number of pattern & scan can be configured in group setup. Dwell time between actions can also be adjusted.



GROUP NO.

Selects group number to edit. If a selected group number is not defined, UNDEFINED will be displayed under the selected group number.

1~8

CLEAR GROUP CANCEL / OK Deletes the data in the current group.

<EDIT GROUP>

Starts editing the group function.

3 EDIT GROUP - Initial Screen

Press Near or Enter key in NO list to start group setup.

| ACTION NO. | NONE / PRESET 1~128(Excluding 95) / PATTERN 1~4 / SCAN 1~4 |
|---|---|
| DWELL TIME 00:03 ~ 04:00 (min:sec) Sets dwell time between function by moving joystick up/down. | |
| | , 5),, |

OPT PRESET: 2~360 / PATTERN & SCAN: 1~255 Represents preset speed (2~360) when preset is selected. It should be the number of repetition (1~255) when pattern or scan is selected for ACTION.

EDIT GROUP – Select Function Sequence

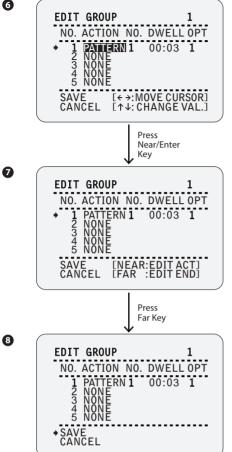
Note that maximum 20 functions are allowed in a group. Move cursor up/down and press Near or Enter key to set.

G EDIT GROUP - Assign Function

Set up ACTION, DWELL and OPT. Note that selected item is displayed in reverse. Move cursor left/right to select items and move cursor up/down to change each value.

OSD -FUNCTION SETUP > GROUP SETUP





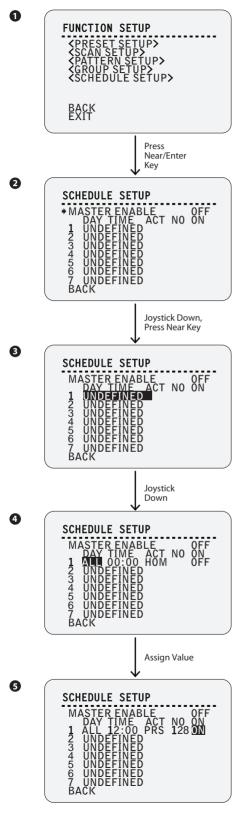
7 EDIT GROUP - Selects Function Sequence

When you finish setting up an ACTION, press Near or Enter key. Move cursor up/down to select another ACTION NO. and repeat to step \mathbf{O} ~ step \mathbf{O} to edit the selected group.

EDIT GROUP - Saves the Setting

After completing the setup of all ations, press Far key to exit. Then move the cursor to SAVE. Press Near or Enter key to save the data.

OSD -FUNCTION SETUP > SCHEDULE SETUP



2 SCHEDULE SETUP SCREEN

The schedule function allows running an appropriate function like preset, scan, pattern, group, home move at a designated day and time.

Ex. If you setup a rule "Tuesday at 9:00AM" and "Preset 1(say main gate)," the camera will move to the main gate every Tuesday at 9:00 AM. If you choose weekday, camera will move to main gate everyday except on weekends.

It is noted that due to the real time clock (ROOT MENU > SYSTEM SETUP > DATA/TIME SETUP), the time data will be kept regardless of a blackout. The initial time and day setup is essential to proper schedule function.

| MASTER ENABLE Decide whether sch | ON / OFF edule function is active or not. |
|---|---|
| DAY UNDEFINED / ALL / WKD / SUN ~ MON Set the day for scheduling. - - Undefined: Inactivate. - - All: Applies to every day of the week - - WKD: Applies to every day except for Saturday and Sunday. - - SUN-MON: Applies to designated day only. - | |
| TIME Set the time. | 00:00 ~ 23:59 (hour:min) |
| ACT NO | HOM(HOME) / PRS(Preset) 1~255(Excluding 95) / SCN(Scan) 1~8 / PTN(Pattern) 1~4 / GRO(Group) 1~8 |
| Set the function and | i number. |
| ON | ON /OFF |
| Turn ON / OFF this r | ule. |

4 5 SCHEDULE SETUP - Assign Value

Each field (DAY, TIME, ACT, NO, ON) can be selected by left/ right keys and the values in the field are changed using up/ down keys.

OSD -FUNCTION SETUP > SCHEDULE SETUP



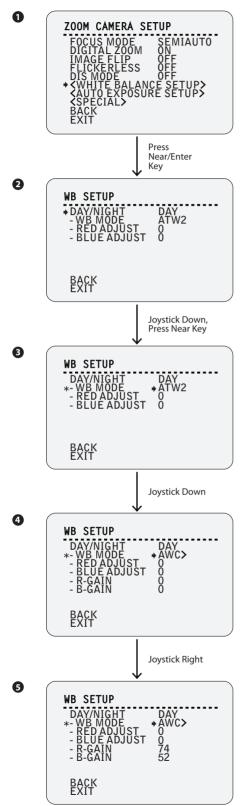
EX.

The second rule means camera will move to preset 12 at 7:00 every Wednesday.

- ☑ If the rules conflict with each other, the higher number will have priority over the others.
- If you assign an undefined function, there will be no action that takes place.
- Using reserved preset, you can make various schedules. For example, PRS179 and PRS178 are DAY and NIGHT mode respectively.

(Refer to "Reserved Preset" list on page 18 in this manual.)

OSD -CAMERA SETUP > WB SETUP



1 ZOOM CAMERA SETUP

| DIS MODE | ON / OFF |
|---------------------|-------------------------|
| Sets the Digital In | hage Stablization mode. |

<SPECIAL>

Goes to SPECIAL SETUP screen.

2 WB SETUP - DAY

DAY/NIGHT DAY/NIGHT The day/night mode can be set independently.

Night mode will only be deactivated if AGC in CAMERA SETUP is set to OFF or FIX.

WB MODE ATW1 / ATW2 / AWC / 3200K / 5600K / OFF

- ATW1: The color temperature is adjusted automatically between 2500K and 9300K.
- ATW2: The color temperature is adjusted automatically between 2000K and 10000K.
- AWC: The color temperature is adjusted automatically once, then adjusted value of R-GAIN, B-GAIN are maintained. Gain value can be adjusted manually by the user. It can be fixed as 3200K or 5600K.
- OFF: Only activated when NIGHT is selected. At night, the setting will be same as day's setting.

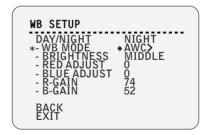
RED/BLUE ADJUST -32 ~ +32

In every mode except OFF, users can adjust the red/blue color value to have the image they want.

R/B - GAIN 0 ~ 1023

If AWC is on, the adjusted value will be marked. Also, the user can adjust the values even after it has been adjusted automatically.

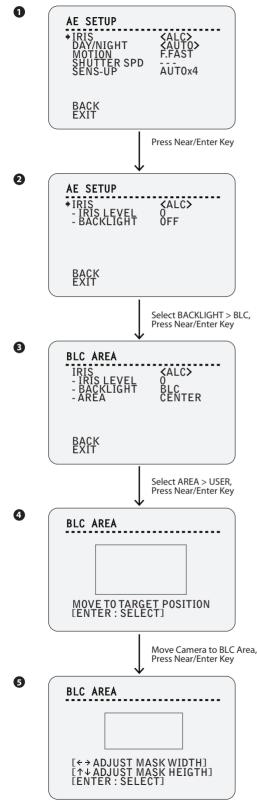
6 WB SETUP - NIGHT



BRIGHTNESS LOW / MIDDLE / HIGH When NIGHT is selected, it sets the criterion of the automatic day/night selection.

If set to LOW, the image has to be very dark to be recognized as night among 3 settings. If set to HIGH, the image will be recognized as night even though it is a little dark.

OSD -CAMERA SETUP > AE SETUP



1 AE SETUP

| See below 2 A | E SETUP - IRIS > ALC |
|---|--|
| | DAY / NIGHT / AUTO W filter can be selected. If DAY/NIGHT is set to <auto> editing screen will appear. See the next page</auto> |
| This is changed as the setting. | ged to AGC or MOTION according to the SENS-UP |
| AGC | VERY LOW / LOW / MIDDLE / HIGH / |
| Enhances the b illumination is l | VERY HIGH / USER 1~16 / FIX 1~16 rightness of the image by amplifying gain when the ow. |
| | S.SLOW / SLOW / NORMAL / FAST / F.FAST t as S.SLOW, the shutter speed will be slower to ht. There will be less noise but this can cause |
| the ghost effec If MOTION is se | t of the moving object. t towards F.FAST, there will be more noise but this ghost effect for any moving object. |
| the ghost effect If MOTION is se will reduce the SHUTTER SPD If this speed is f without the gho | t of the moving object. t towards F.FAST, there will be more noise but this ghost effect for any moving object. OFF / 1/100 ~ 1/10K aster, the moving object can be photographed ost effect. However, the images can be dark if the |
| the ghost effect If MOTION is se will reduce the SHUTTER SPD If this speed is f without the gho scene lacks suff | t of the moving object. t towards F.FAST, there will be more noise but this ghost effect for any moving object. OFF / 1/100 ~ 1/10K aster, the moving object can be photographed ost effect. However, the images can be dark if the |
| the ghost effect If MOTION is se will reduce the SHUTTER SPD If this speed is f without the ghi scene lacks suff If SENS-UP i SENS-UP | t of the moving object. t towards F.FAST, there will be more noise but this ghost effect for any moving object. OFF / 1/100 ~ 1/10K aster, the moving object can be photographed ost effect. However, the images can be dark if the icient lighting. |

AE SETUP - IRIS > ALC

If ALC is selected, the iris will be controlled automatically.

| IRIS LEVEL | -32 ~ +32 |
|----------------------|--|
| BACKLIGHT | OFF / BLC / WDR |
| This function improv | es the backlight effect, which is when the |

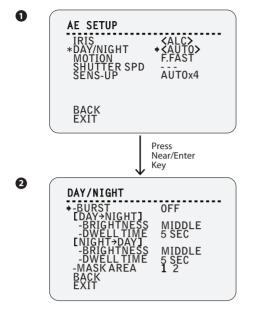
This function improves the backlight effect, which is when the subject is dark on the monitor because the intensive backlight

- BLC: You can select the desired area you wish to brighten. If it is set on a bright area, note that the area will appear even more brighter.
- WDR: See 2 AE SETUP-IRIS > ALC > BACKLIGHT > WDR on the next page.

BLC AREA

AREA TOP / BOTTOM / LEFT / RIGHT / USER If set to USER, the user can set the specific area. See screen **G** on this page.

OSD -CAMERA SETUP > AE SETUP



2 DAY/NIGHT

The camera automatically detects the change by the brightness of the scene.

BURST ON / OFF

If BURST is set to ON, the burst signal is produced although the camera is hcange to B/W filter.

BRIGHTNESS LOW / MIDDLE / HIGH

As the camera switches from Color to B/W with BRIGHTNESS set as LOW, the images will appear darker. As the camera switches from B/W to Color with BRIGHTNESS set as HIGH, the image will appear brighter.

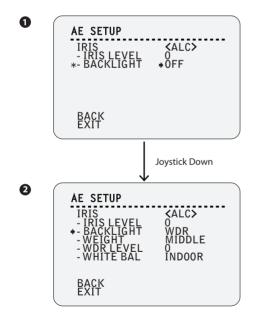
DWELL TIME 2 SEC / 3 SEC / 10 SEC / 15 SEC / 20 SEC / 25 SEC / 30 SEC

When the switching criterions are satisfied, the filter is changed after the status is maintained during the dwell time.

MASK AREA 1/2

If the streetlights or traffic lights are present in a night scene, the mode might not change to B/W. In this incident, setting MASK AREA to those lights will correct the problem.

If BACKLIGHT is set to BLC, MASK AREA function is deactivated.



2 AE SETUP - IRIS > ALC > BACKLIGHT > WDR

In WDR mode, the brightness is adjusted in all area of the picture by combining high speed shutter and low speed shutter.

 WEIGHT
 LOW / MIDDLE / HIGH

 If WEIGHT goes to HIGH, the area applying high speed shutter is expanded.

WDR LEVEL -9 ~ +9

If WDR LEVEL goes up, the speed of the high speed shutter becomes faster.

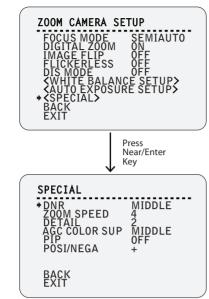
WHITE BAL INDOOR / OUTDOOR If WHITE BAL is set to INDOOR, the color temperature adjusts based on the darker areas. If WHITE BAL is set to OUTDOOR, the color temperature adjusts based on the brighter areas.

When WDR is used, the internally operating VPS function stops.

AMERA SETUP > SPECIAL



2



1 ZOOM CAMERA SETUP

DIS MODE ON / OFF

Sets the Digital Image Stablization mode.

<SPECIAL>

Opens SPECIAL SETUP menu.

2 SPECIAL

Sets the special function related to the image.

1~4

0~3

DNR

OFF / LOW / MIDDLE / HIGH / USER 1~16 Reduces the noise caused by AGC. If set towards HIGH, the noise will be reduced but the ghost effect on moving objects will be increased.

ZOOM SPEED

The speed it takes to adjust zoom in/zoom out. 1 is the slowest, and 4 is the fastest.

DETAIL

The distinction are separated into 4 levels.

If the level is high, the outline is clear but the noise is increased.

AGC COLOR SUP LOW / MIDDLE / HIGH

The color range of the noise caused by AGC can be reduced. If set to HIGH, the color range of the noise will decrease, but the overall quality of the color will also decrease

ON / OFF

+/-

PIP

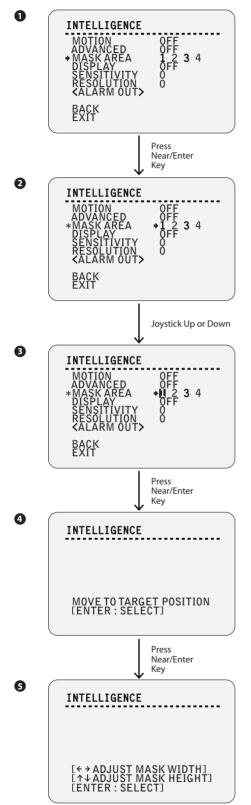
Turn ON to display the sub-screen.

Sub-screen will appear on the bottom right side of the main display. Even though the main display enables digital zoom, the sub-screen will only display with maximum optical zoom.

POSI/NEGA

If set as +, the camera will produce the normal image; however, if set as -, the brightness signal and color signal of the produced image will be reversed.

OSD -INTELLIGENCE > MASK AREA



1 INTELLIGENCE

| MOTION | OFF / DETECTION / TRACKING |
|---------------------|------------------------------|
| Enable motion detec | tion and tracking functions. |

If you set it to DETECTION, both the FIX/MOVE option of ADVANCED will be disabled.

- ☑In the following situations, DETECTION and TRACKING may not work properly.
 - when there is a sudden change of brightness
 - when the device moves
 - when a certain object's movement fills most of the framing area
 - when there are difficulties in distinguishing the moving object and background

ADVANCED OFF / FIX/MOVE

This option enables you to detect motion and track the movement.

FIX/MOVE will mark a region if an existing object disappears or a new object appears and stays fixed for a certain period of time.

In the following situations, FIX/MOVE may not work properly.

- when multiple motions continue arbitrarily
- when the object continues to move within the same position.
- when a new object suddenly appears and conceals another object that is moving.

MASK AREA 1/2/3/4

Selects the MASK AREA number that you wish to exclude from motion detection.

DISPLAY ON / OFF Turn ON to display the motion detection and the detection of the configured advanced function.

SENSITIVITY 0 ~ 6 Sets the sensitivity of the motion sensor.

0~6

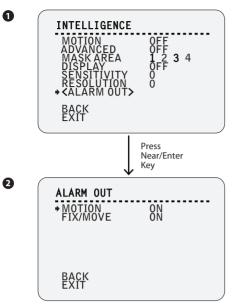
RESOLUTION

As the resolution setting gets higher, motion detection becomes more precise. Higher resolution settings allow the detection of smaller objects.

<ALARM OUT>

Opens ALARM OUT menu.

OSD -INTELLIGENCE > ALARM OUT

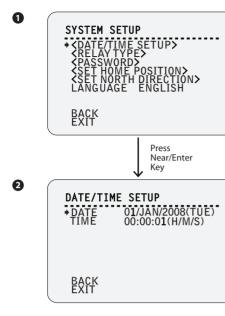


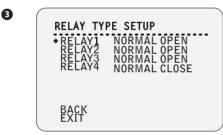
2 ALARM OUT

When ALARM OUT is set to ON, the camera will produce alarm signals when motion is detected or when the configured advanced function is detected.

| MOTION | ON / OFF | |
|----------|----------|--|
| FIX/MOVE | ON / OFF | |

OSD -SYTEM SETUP







| EDIT PASSWORD |) |
|---|--------------------------------|
| <pre>1 2 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K LMN O P Q R S T U VWX Y Z a b c d e f g h i j k lmn o p q r s t u vwx y Z < > - / : . </pre> | OK CANCEL DISABLE |

SYSTEM SETUP

<DATE/TIME SETUP> Opens DATE/TIME SETUP menu.

<RELAY TYPE> Opens RELAY TYPE menu.

<**PASSWORD**> Opens PASSWORD menu.

<SET HOME POSITION> Opens SET HOME POSITION menu.

<SET NORTH DIRECTION> Opens SET NORTH DIRECTION setup.

LANGUAGE

ENGLISH / ESPAÑOL / FRANÇAIS / DEUTSCH / ITALIANO / РУССКИЙ / PORTUGUÊS

Select a preferred language for the OSD display. After selecting a language, press Near or Enter key.

2 DATE/TIME SETUP

After you press the Near or Enter key, move between the different fields using the left/right keys. Use the up/down keys to change the values of each field. To save the updated data, press the Near or Enter key again.

| DATE | 01 / JAN / 2000 ~ 31 / DEC / 2037 | |
|--|-----------------------------------|--|
| Date is displayed in dd/mm/yy format. | | |
| The day is automatically calculated when you set the date. | | |

TIME

Time is displayed in HH:MM:SS format.

3 RELAY TYPE SETUP

RELAY1, 2, 3, 4 NORMAL OPEN / NORMAL CLOSE Define the type of relay output for each of the four relays.

4 EDIT PASSWORD

Sets a password that consist of 4 characters. If this function is set as ENABLE, the password is required whenever you open the OSD Menu.

The default password is "4321" and the master password is "- - > g."

OSD -SYTEM SETUP

6

SET HOME POSOTION

MOVE TO TARGET POSITION [NEAR:SELECT/FAR:CANCEL] 0/0/x1/E



SET NORTH DIRECTION

MOVE TO TARGET POSITION [NEAR:SELECT/FAR:CANCEL] 0/0/x1/N

5 SET HOME POSITION

Home position means the origin of pan angle calculation. The value of pan angle displayed on the screen is based on this home position.

By using joystick, move the camera to the desired position and press Near key.

Home position does not effect the tilt angle.

If you change the location of the home position, all horizontal locations of your set functions such as preset, scan, pattern, group, and privacy zone mask will be shifted based on the new home position.

If there are no saved locations for preset, pattern, scan, and/or group, the camera will automatically move to the home position after rebooting.

If power up action is set as ON, camera will continue the last function that was executed right before reboot.

Set Home Position?

When the camera block is replaced or the orientation of the camera is changed due to maintenance operations, it is very difficult to maintain the same pan orientation. All the data for the functions that depend on pan orientation, such as preset, scan, pattern, group, and privacy zone mask, are no longer useful. However, even in this case, you can reuse the data if you redefine the set home position to the previous home position.

6 SET NORTH DIRECTION

By using the joystick, move the camera to the desired northern position and press Near or Enter key. The direction will be displayed on the screen

Direction will be displayed as one of the following: N(North) / S(South) / E(East) / W(West) / NE(Northeast) / NW(Northwest) / SE(Southeast) / SW(Southwest).

OSD -SYSTEM INITIALIZE

0



1 SYSTEM INITIALIZE

CLEAR ALL DATA NO / YES Deletes all configuration data such as display, camera, motion setup, and so on.

CLR DISPLAY SET NO / YES Initializes display configuration.

CLR CAMERA SET NO / YES Initializes camera configuration.

CLR MOTION SET NO / YES Initializes motion configuration.

CLR FUNCTION SET NO / YES Deletes preset data, scan data, pattern data, group data, and schedule data.

REBOOT CAMERA NO / YES Reboots zoom camera module.

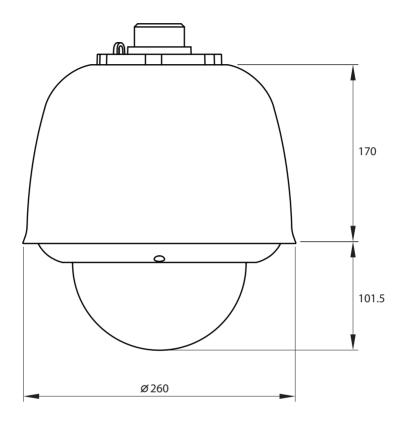
REBOOT SYSTEM NO / YES Reboots speed dome camera.

Initial Configuration Table

| M Initial Configurati | on Table | |
|--|--|---------------|
| Address Camera ID PTZ Information Action Title Preset Label Alarm I/O Date/Time Privacy Zone | ON OFF AUTO AUTO AUTO AUTO ON Undefined | Display |
| Preset Lock Power Up Action Auto Flip Jog Max Speed Jog Direction Freeze In Preset Park Action Alarm I/O Action | OFF ON ON 140°/sec NORMAL OFF OFF OFF | Motion |
| Preset 1~128 Auto Pan 1~8 Pattern 1~4 Scan 1~8 Schedule 1~7 | Undefined Undefined Undefined Undefined Undefined | Function |
| Focus Mode Digital Zoom Image Flip Flickerless DIS Mode | AUTO ON OFF OFF Off | |
| Day/Night WB Mode Red Adjust Blue Adjust Day/Night WB Mode | DAY ATW2 0 NIGHT OFF | |
| Iris Iris Level Backlight Day/Night Burst Brightness Dwell Time Mask Area | ALC 0 OFF AUTO OFF MIDDLE 5 SEC Undefined | Camera |
| Mask Area Motion Sens-up DNR Zoom Speed Detail AGC Color Sup | F.FAST AUTOX4 MIDDLE 4 2 MIDDLE | |
| PIP Posi/Nega | OFF + | |
| Motion Advanced Mask Area Display Sensitivity Resoluition Alarm Out>Motion Alarm Out>Fix/Move | OFF OFF Undefined ON 4 3 ON ON | Intelligence |
| Protocol Baud Rate | AUTO 9600 | Communication |
| - | | |

Specifications -Dimension

unit: mm



Specifications -Specification PTZ39X

| Sigr | nal Format | NTSC | PAL | |
|--|--|---|--------------------------------|--|
| | Image Device | 1/4" EX View-HAD PS CCD | | |
| | Total Pixel | 410K Pitxels, 811 (H) x 508 (V) | 470K Pixels, 795 (H) x 596 (V) | |
| | Effective Pixel | 380K Pixels, 768 (H) x 494 (V) | 440K Pixels, 752 (H) x 582 (V) | |
| | H. Resolution | Color: 550 TV Lines B/W: 600 TV Lines | | |
| | S/N Ratio | 52 dB (AGC OFF) | | |
| | Zoom | X39 Optical Zoom, X12 Digital Zoom | | |
| | Focal Length | F 1.6 (W) 3.7 (T) f=3.4 ~ 132.6mm | | |
| | Angle of View | H: 57.54° (W) ~ 1.56° (T) V: 44.44° (W) ~ 1.16° (T) | | |
| | Min. Illumination | Color: 1.2 Lux / F1.6 (50 IRE) B/W: 0.12 Lux / F1.6 (50 IRE) | | |
| | Day & Night | COLOR / BW / AUTO (Day&Night Filter) | | |
| | Focus | AUTO / MANUAL / SEMI-AUTO | | |
| - | Iris | AUTO / MANUAL / SEIVIFAUTO | | |
| Camera | Shutter Speed | 1/60 (1/50) ~ 1/10K·sec | | |
| | White Balance | ATW1(2,500 ~ 9,500°K) / ATW2(2,000 ~ 10,000° | K) / AWC / MANUAL | |
| | Sens-Up | X2~X256 | | |
| | Flickerless | ON / OFF | | |
| | AGC | ON / OFF | | |
| | WDR | ON / OFF | | |
| | BLC | ON / OFF | | |
| | DNR | ON / OFF | | |
| | DIS | ON / OFF | | |
| | Intelligent Video | MOTION / FIX/MOVE | | |
| | Video Out | MOTION / FIX/MOVE VBS: 1.0 Vp-p (750hm Terminated) Frame Freeze Function, Detail, Reverse, Posi/Nega, PIP | | |
| | Other Functions | | | |
| | | Pan: 360° (Endless) | | |
| | Range Tilt: 0° ~ 180° (Auto-Flip On), 0° ~ 90° (Auto-Flip Off) | | o Off) | |
| | | Preset: 360°/sec | | |
| | Pan/Tilt Speed | Manual: 0.05° ~ 200°/sec (Zoom Proportional) | | |
| | Tan, mespeca | Scan: 1° ~ 180°/sec | | |
| Pan/Tilt | Preset | 127 Presets with Labels / Independent Camera Setup | | |
| , | Pattern | 4 Patterns, 1000 Commands/Pattern (Approximately 5 Minutes for Each Pattern) | | |
| | Scan | 8 Scans | | |
| | Group | 8 Groups (Maximum 20 Entries per Group) | | |
| | Schedule | 7 Rules (Condition: Day, Time \rightarrow Action: Preset, Scan, Group, Pattern) | | |
| | Other Functions | Image Auto Flip, Auto Parking, Power-Up Action, etc. | | |
| | Communication | RS-485 | | |
| | Protocol | Auto, Pelco-D, Pelco-P, Samsung, Panasonic, Kalatel, AD (American Dynamics) | | |
| | Privacy Zone | 12 Zones | | |
| | Sensor In/Out | 8 Input / 4 Relay Output | | |
| | | Available, Supports 7 Languages: | | |
| | OSD | ENGLISH / ESPAÑOL / FRANÇAIS / DEUTSCH / ITALIANO / РУССКИЙ / PORTUGUÊS | | |
| General | Power | AC 24V: 24W, 1A / 57W, 2.38A HEATER ON | | |
| | | Net: 260 x 552 x 405 mm, 10.2 x 21.7 x 15.9 in | | |
| | Dimension | Package: 390 x 580 x 500 mm, 15.4 x 22.8 x 19.7 in | | |
| | Weight | 6.4kg, 14.1lbs | | |
| | Operating Temperature | -45°C ~ 50°C / -49°F ~ 122°F | | |
| | Outdoord In | IP 66/ Vandal Proof Structure | | |
| Outdoor Housing (Housing & Accessories: AL Die-cast), (Dome Co | | | over: PC) | |
| - | | | | |

WARRANTY INFORMATION

Digital Watchdog (referred to as "the Warrantor") warrants the Digital Watchdog Camera against defects in materials or workmanship as follows:

LABOR : For the initial two (2) years from the original purchase date, if the camera is determined to be defective, the Warrantor will repair or replace the unit with a new or refurbished product at its option at no charge.

PARTS : In addition, the Warrantor will supply replacement parts for the initial two (2) years.

To obtain warranty or out of warranty service, please contact a Technical Support Representative at 1-866-446-3595 Monday through Friday from 8:30AM to 8:00PM Eastern Standard Time.

A purchase receipt or other proof of the original purchase date is required before warranty service is rendered. This warranty only covers failures due to defects in materials and workmanship which arise during normal use. This warranty does not cover damage which occurs in shipment or failures which are caused by products not supplied by the Warrantor or failures which result from accident, misuse, abuse, neglect, mishandling, misapplication, alteration, modification, faulty installation, set-up adjustments, improper antenna, inadequate signal pickup, maladjustment of consumer controls, improper operation, power line surge, improper voltage supply, lightning damage, rental use of the product or service by anyone other than an authorized repair facility or damage that is attributable to acts of God.

LIMITS AND EXCLUSIONS

There are no express warranties except as listed above. The Warrantor will not be liable for incidental or consequential damages (including, without limitation or damage to recording media) resulting from the use of these products, or arising out of any breach of the warranty. All express and implied warranties, including the warranties of merchantability and fitness for particular purpose, are limited to the applicable warranty period set forth above.

Some states do not allow the exclusion or limitation of incidental or consequential damages or limitations on how long an implied warranty lasts, so the exclusions or limitations listed above may not apply to you. This warranty gives you specific legal rights, and you may also have other rights that vary from state-to-state.

If the problem is not handled to your satisfaction, then write to the Address listed on the next page.

Service calls which do not involve defective materials or workmanship as determined by the Warrantor, in its sole discretion, are not covered. Costs of such service calls are the responsibility of the purchaser.



5436 W Crenshaw St. Tampa, FL 33634 Toll Free : 866-446-3595 Tel : 813-888-9555 Fax : 813-888-9262 www.Digital-Watchdog.com technicalsupport@dwcc.tv Technical Support Hours : Monday-Friday 8:30AM to 8:00PM Eastern Standard Time

Correct Disposal of This Product (Waste Electrical & Electronic Equipment)

(Applicable in the European Union and other European countries with separate collection systems)

This marking on the product, accessories or literature indicates that the product and its electronic accessories (e.g. charger, headset, USB cable) should not be disposed of with other household waste at the end of their working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate these items from other types of waste and recycle them responsibly to promote the sustainable reuse of material resources.

Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take these items for environmentally safe recycling.

Business users should contact their supplier and check the terms and conditions of the purchase contract.

This product and its electronic accessories should not be mixed with other commercial wastes for disposal.

