

P/N : 388067061
PRINTED IN KOREA

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INSTALLATION / OPERATING MANUAL

High Speed Dome Camera

- Before attempting to connect or operate this product, please read these instructions carefully and save this manual for future use.
- The design and specifications are subject to be changed without prior notice to improve product's quality.

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1. PRECAUTIONS



1.1 Important Safety Instruction

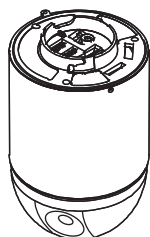
- Read these instructions.
- Pay attention on all the warnings.
- Follow all instructions.
- Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- Do not disassemble or insert foreign objects.
- Do not install near any heat sources such as radiation, heat registers, stoves, or other apparatus. (Including amplifiers) that produce heat.
- Do not aim the camera at the sun or any other strong light source.
- Do not install the camera in intermittent lighting environments.
- Only use attachments/accessories specified by the manufacturer.
- 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.
- Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply 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.
- Installation should be done only by qualified personnel and conform to all local codes.
- Installation should be done in a place strong enough to hold it.
- Use only installation methods and materials capable of supporting four times the maximum specified load.
- It is designed for indoor use only and it must not be installed where exposed to rain and moisture without additional outdoor housing and bracket.
- To prevent damage from water leakage when installing a mount outdoors on a roof or wall, apply sealant around the bolt holes between the mount and mounting surface.
- These instructions are for use by qualified service personnel only. To reduce the risk of electric shock do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so.
- Only use replacement parts recommended by manufacturer.ad these instructions.

2. GETTING STARTED

2.1 Unpacking

The following parts are supplied with the outdoor speed PTZ dome system.

<Figure 1. package Components>



Camera



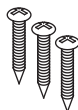
Plate Base



User's Guide



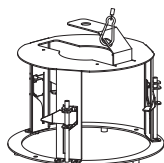
Plastic Anchors



Screws(4x25)

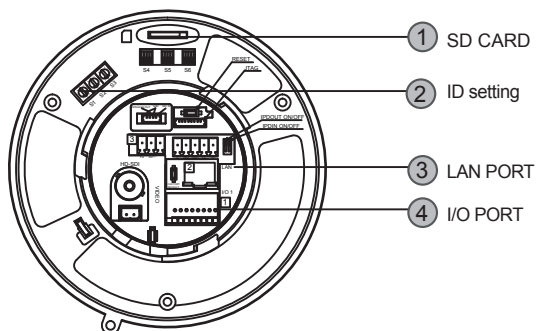


Screws(3x8)



In-ceiling Mount

2.2 Part name

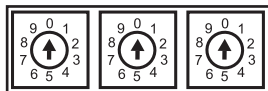


2.3 DIP Switch Setting

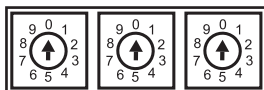
Before start up the dome camera, set the protocol and camera address and termination set with dip-switches and click-switches as shown in the below diagram.

1.Set the camera address (ID)

Open the top cover of the product to set camera address.



Address switch



S1

S2

S3

S1 : 100-digit number of address

S2 : 10-digit number of address

S3 : 1-digit number of address

Ex) S1 = 1

S2 = 2

S3 = 8

The ID number is 128.

* ID setting is 1~255 available

2. Protocol, Baudrate, Camera setting

SW 4



1	2	3	PROTOCOL
OFF	OFF	OFF	PELCO-D
OFF	OFF	ON	PELCO-P
OFF	ON	OFF	WTX
OFF	ON	ON	EZ
ON	OFF	OFF	NC
ON	OFF	ON	NC
ON	ON	OFF	NC
ON	ON	ON	NC

SW 5



1	2	3	BAUDRATE
OFF	OFF	OFF	2400
OFF	OFF	ON	4800
OFF	ON	OFF	9600
OFF	ON	ON	19200
ON	OFF	OFF	38400
ON	OFF	ON	57600
ON	ON	OFF	115200
ON	ON	ON	NC

4	NTSC/PAL
OFF	NTSC
ON	PAL

SW 6



1	RSMODE
OFF	RS-422
ON	RS-485

2	RS LOOP
OFF	OFF
ON	ON

3	IP SELECT
OFF	IP OFF
ON	IP ON

3.Set the termination On/Off



SW 6-2

ON : Terminated

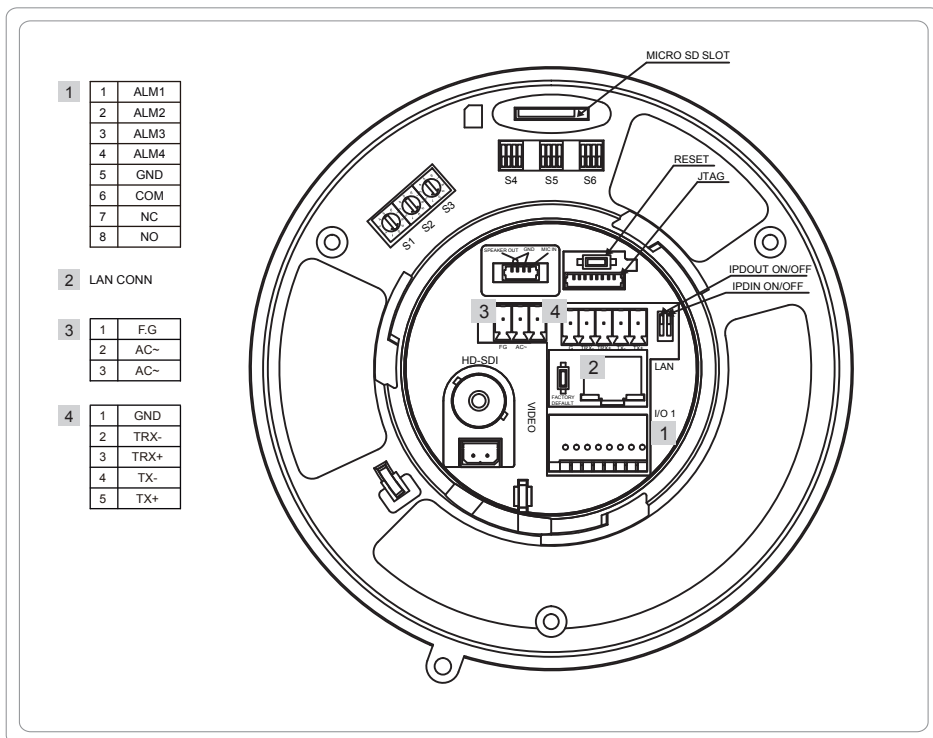
OFF : Not terminated

The device which is connected at the end of the line must have the cable communication terminated. Without proper termination, there is potential for control signal errors.

The product have the cable communication terminated by setting the appropriate dip switch.

2.4 Cable connection

2.4.1 Power/Data communication cable connection



2.4.2 RS-485/RS-422 Connection

RS-422/485 connection

The PTZ can be remotely controlled by an external device or control system, such as a control keyboard or DVR, using RS-485 half-duplex, RS-422 duplex or simplex serial communication signals. Connect marked TRx+, TRx- to Tx+ and Tx- of the RS-485 control system.

If control system is RS-422, connect Tx+, Tx- of controller to Rx+ and Rx- of the PTZ Camera series. And also connect the Tx+, Tx- to Rx+, Rx- of the control device respectively. Total length of the cable for communication should not exceed 1.2Km.

2.4.3 HD-SDI Output connection

Connect the HD-SDI out (BNC) connector to the monitor or video input of DVR. Video cable and RS-485/422 communication cable are not provided in this product's package.



Caution



Do not connect the AC24V power terminal to the communication terminal.

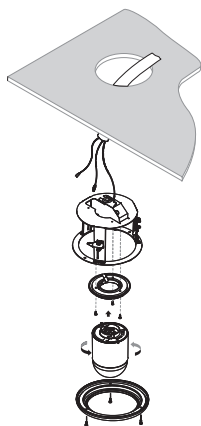
- Power Terminal: 3PIN
- Com Terminal: 5PIN

3.Installtion

- The following steps of installation and connection work should be done by qualified service personnel or system installers and should conform to all local codes.
- Be sure to switch the camera off before installation is completed.
- Do not install the camera near the air outlet of an air conditioner.
- Before installation, set the dome system with Dip switch on the back side of the mechanism part, and assemble the mechanism and housing according to the below instruction

3.1 Installation

In-ceiling Mount



- ① Make a cabling hole to the proper position in the ceiling.
- ② Before installation, attach the bottom plate to the in-ceiling housing.
- ③ Install the In-ceiling housing and pull out the cables from the ceiling.
- ④ After the cabling, turn clockwise to connect the camera to the bottom plate.
- ⑤ Attach the deco-ring after connecting the camera system.

4. MAIN SETUP MENU

4.1 Initialize

When the device is powered on, you can check the address, version, protocol and video setting values.

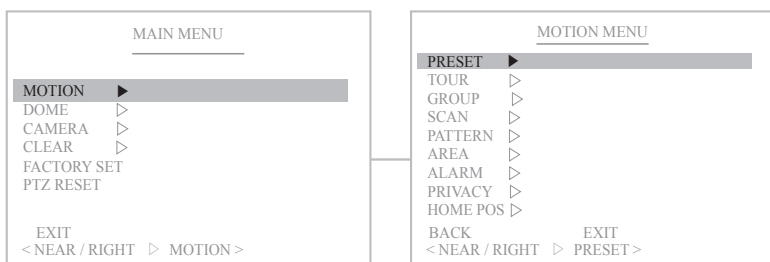
```

INITIALIZE
PTZ ID      : 001
VERSION     :
D-OUTPUT    : 1080p30/NTSC
COMM        : PELCO D
            : IP NOT SUPPORT
            : RS422 2400 N 1
CAMERA      : .. OK
            : VER :
▷ PAN INIT  : .. OK
▷ TILT INIT  : .. OK

▷ NORMAL SETTING
    
```

4.2 Motion Setting

4.2.1 Preset

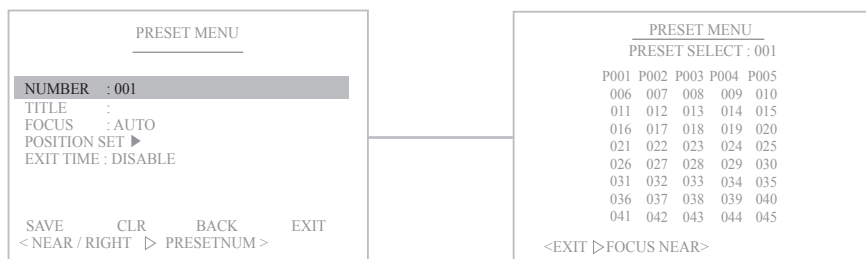


The preset function is that the camera memorizes positions of the pan/tilt and zoom. This function is a representative function of the speed dome which can find memorized preset positions just by selecting the preset No. A Maximum of 255 Preset positions are toured in order.

(1) Select the Preset number

P001 : Defined Preset number / 001 : Undefined Preset number

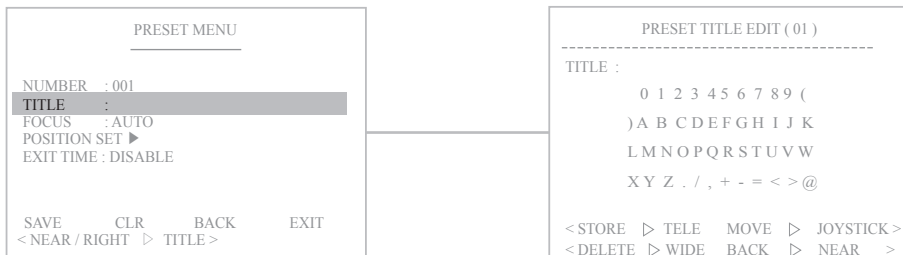
Move :  Select : 



(2) Set the Preset TITLE

Move :  or  Select :  or  Delete : 

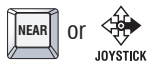
It's available to set the desired TITLE, displayed on the executing screen of Preset.



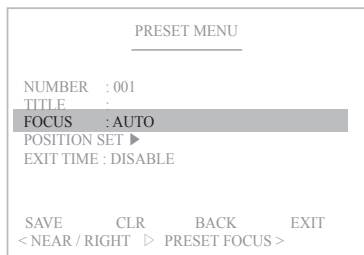
After the TITLE is set, push the NEAR button to exit.

(3) Select the focus mode for Preset

① Select the Focus menu



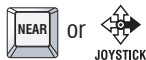
② Move and set the Focus Menu



On focus menu, there are 3 modes :
AUTO, MANUAL, ONESHT. It allows detailed settings for the preset.

(4) Define the Preset position

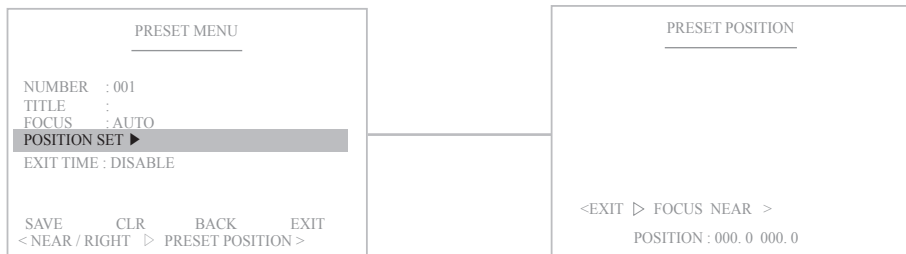
① Select the Position menu



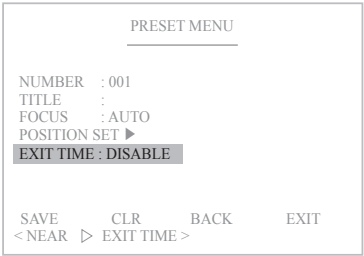
② Move and set the position



③ Set & Back



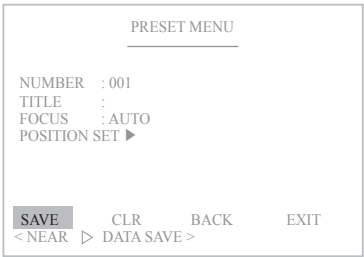
(5) EXIT TIME



Setting the dwell time to exit Preset mode after completing Preset working.
(OFF / 5SEC / 10SEC / 20SEC / 30SEC / 1MIN / 5MIN / 10MIN / 30MIN) ※ Default : 10SEC

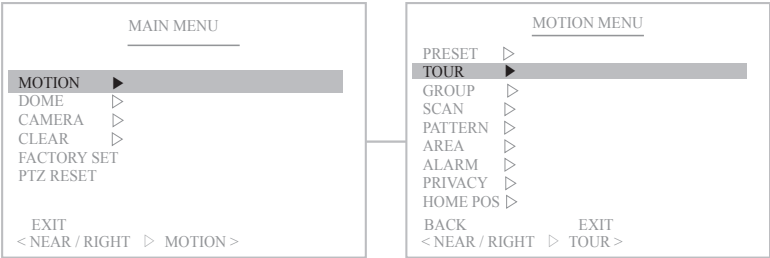
Select :  or  Set ON : 

Set OFF : 



- (6) "Save" above setting Pattern data to the memory.
- (7) "CLR" means above setting Pattern data will not be saved and be cleared.
- (8) "BACK" means it goes back to the previous menu :Motion.
- (9) "EXIT" means it goes out of MENU.

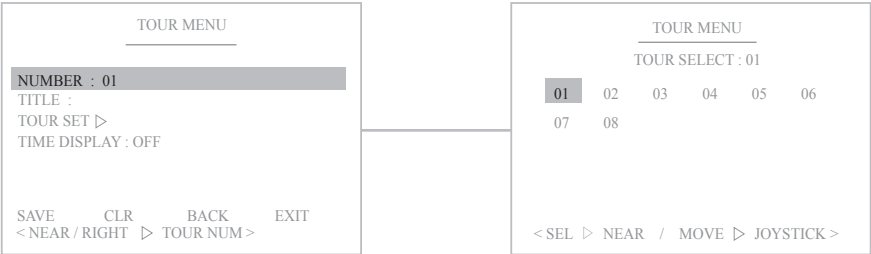
4. 2. 2 Tour



The Tour function consists of several presets run by turn. It is also adjusts the moving speed (1~63 step) and dwell time (1~99secs). Maximum of 8 Tour functions are toured in order.
(※ 1 Tour can be set for 16 presets.)

- (1) Select the Tour number
T01 : Defined Tour number / 01 : Undefined Tour number

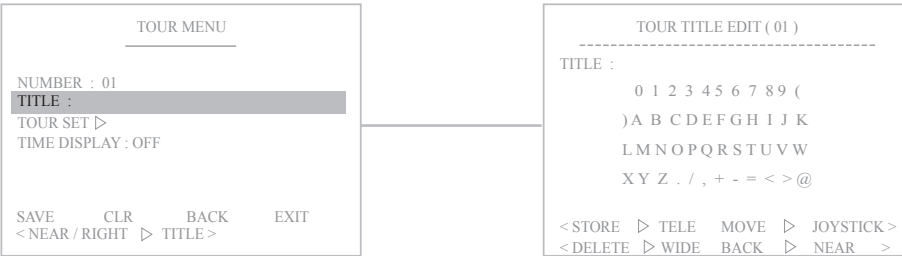
Move :  Select : 



- (2) Set the Tour TITLE

Move :  Select :  or  Delete :  or 

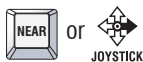
It's available to set the desired TITLE, displayed on the executing screen of Tour.



After the TITLE is set, push the NEAR button to exit.

(3) Define the Preset position

① Move to the set-up window



TOUR MENU

NUMBER : 01
TITLE :
TOUR SET ►
TIME DISPLAY : OFF

SAVE CLR BACK EXIT
<NEAR / RIGHT ► TOUR SET >

② Move and set the position



TOUR EDIT (01)

NO	PRESET	SPEED	DWELL
01	◀ 01	63	01
02	◁ 02	63	01
03	XX	XX	XX
04	XX	XX	XX
05	XX	XX	XX
06	XX	XX	XX
07	XX	XX	XX
08	XX	XX	XX
<SEL & NEAR		PRESET & LEFT >	
<SEL & NEAR		DELETE WIDE >	

③ Set & Back



TOUR MENU

PRESET SELECT : 001

P001	P002	P003	P004	P005
006	007	008	009	010
011	012	013	014	015
016	017	018	019	020
021	022	023	024	025
026	027	028	029	030
031	032	033	034	035
036	037	038	039	040
041	042	043	044	045

<EXIT ► FOCUS NEAR >

(4) Time Display

TOUR MENU

NUMBER : 01
TITLE :
TOUR SET ►
TIME DISPLAY : OFF

SAVE CLR BACK EXIT
<NEAR / RIGHT ► TIME DISPLAY >

Display the remain time of each Preset dwell time during Tour operation.(OFF / ON) ※ Default : OFF

Select : or

Set ON :

Set OFF :

TOUR MENU

NUMBER : 01
TITLE :
TOUR SET ►

SAVE CLR BACK EXIT

<NEAR ► DATA SAVE >

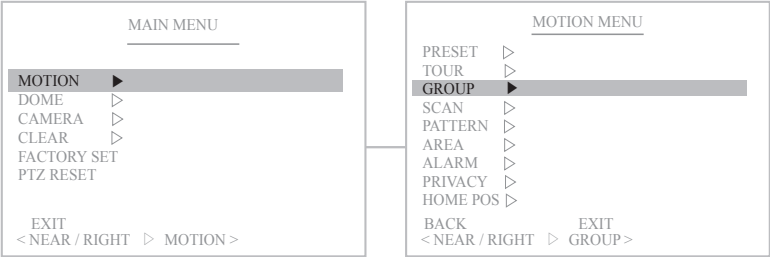
(5) "Save" above setting Pattern data to the memory.

(6) "CLR" means above setting Pattern data will not be saved and be cleared.

(7) "BACK" means it goes back to the previous menu :Motion.

(8) "EXIT" means it goes out of MENU.

4. 2. 3 Group

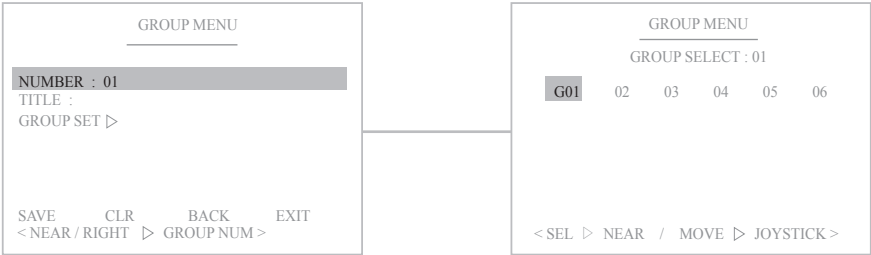


GROUP : You can make Max. 6 groups and call the saved tour by turn.

(1) Select the Group number

G01 : Defined Group number / 01 : Undefined Group number
Set from 1to 6 groups.

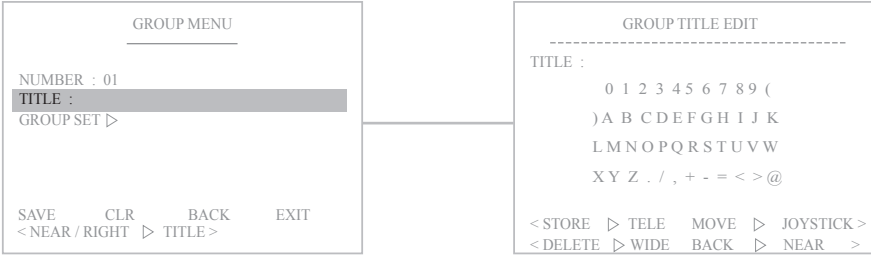
Move :  Select : 



(2) Set the Group TITLE

Move :  Select :  or  Delete :  or 

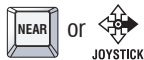
It's available to set the desired TITLE, displayed on the executing screen of Group.



After the TITLE is set, push the NEAR button to exit.

(3) GROUP SET

① Move to the set-up window



② Move and set the position



③ Set & Back



GROUP MENU

NUMBER : 01
TITLE :
GROUP SET ▶

SAVE CLR BACK EXIT
< NEAR / RIGHT ▷ GROUP SET >

GROUP EDIT (01)

NO	TOUR
01	<001>
02	002
03	XXX
04	XXX
05	XXX
06	XXX

< SEL & NEAR PRESET & LEFT >
< SEL & NEAR DELETE WIDE >

- GROUP EDIT : Set the tour from 1 to 6 of group.

GROUP MENU

NUMBER : 01
TITLE :
GROUP SET ▶

SAVE CLR BACK EXIT

< NEAR ▷ DATA SAVE >

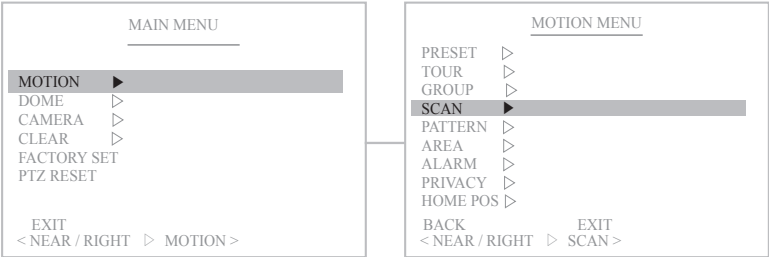
(4) "Save" above setting Pattern data to the memory.

(5) "CLR" means above setting Pattern data will not be saved and be cleared.

(6) "BACK" means it goes back to the previous menu :Motion.

(7) "EXIT" means it goes out of MENU.

4.2.4 Scan

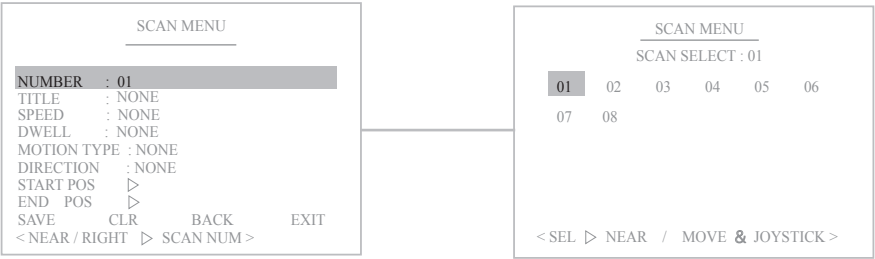


The Scan function means that the camera keeps panning between two programmed pan positions. It also adjusts the moving speed(1~63 step). Maximum 8 Scan functions are toured in order.

(1) Select the Scan number

S01 : Defined Scan number / 01 : Undefined Scan number

Move :  JOYSTICK Select : 



(2) Set the Scan TITLE

Move :  JOYSTICK Select :  or  JOYSTICK Delete :  or  JOYSTICK

It's available to set the desired TITLE, displayed on the executing screen of Scan.



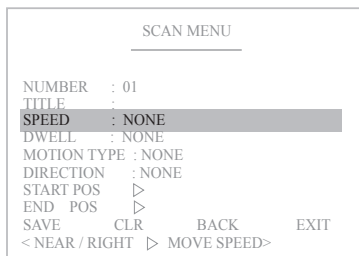
After the TITLE is set, push NEAR button to go out.

(3) Set the Scan speed

Increase :  or  JOYSTICK

Decrease :  or  JOYSTICK

It adjusts the moving speed from 1~63 steps.



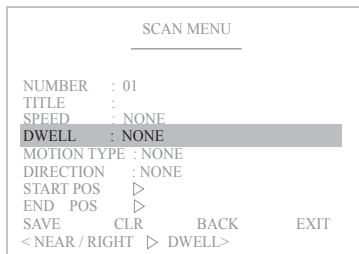
(4) Set the Dwell Time

Increase :  or  JOYSTICK

Decrease :  or  JOYSTICK

Dwell time means the time that the camera stay at the start & end pan positions.

It's adjustable from 00~59 seconds.



(5) Set the Motion Type

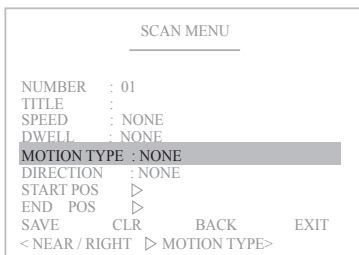
Set PAN/TILT direction

When PAN is set, PAN SCAN is proceeded with the specified coordinate value.

When TILT is set, TILT SCAN is proceeded with the specified coordinate value.

Select :  or  Set ON :  JOYSTICK

Set OFF : 



(6) Set the Direction

PAN : Select Clock Wise or C_Clock Wise direction

When select C_Clock WISE, counterclockwise progression

When select Clock WISE, clockwise progression

TILT : Set the UP & DOWN.

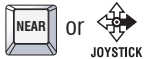
Select :  or  Set ON : 

Set OFF : 

SCAN MENU	
NUMBER	: 01
TITLE	:
SPEED	: NONE
DWELL	: NONE
MOTION TYPE	: NONE
DIRECTION	: NONE
START POS	▷
END POS	▷
SAVE	CLR BACK EXIT
< NEAR / RIGHT ▷ DIRECTION >	

(7) Define the Start position

① Select Start Pos menu



② Move and set the position



③ Go back

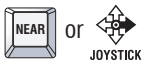


SCAN MENU	
NUMBER	: 01
TITLE	:
SPEED	: NONE
DWELL	: NONE
MOTION TYPE	: NONE
DIRECTION	: NONE
START POS	▷
END POS	▷
SAVE	CLR BACK EXIT
< NEAR / RIGHT ▷ START POS >	

STRAT POSITION	
< EXIT ▷ FOCUS NEAR >	
POSITION : 000.0 000.0	

(8) Define the End position

① Select End Pos menu



② Move and set the position



③ Go back



SCAN MENU	
NUMBER	: 01
TITLE	:
SPEED	: NONE
DWELL	: NONE
MOTION TYPE	: NONE
DIRECTION	: NONE
START POS	▷
END POS	▷
SAVE	CLR BACK EXIT
< NEAR / RIGHT ▷ END POS >	

SCAN END POSITION	
< EXIT ▷ FOCUS NEAR >	
POSITION : 000.0 000.0	

- When Motion type is PAN, Pan is available.
- When Motion type is TILT, TILT is available.

- (9) “Save” above setting Pattern data to the memory.
- (10) “CLR” means above setting Pattern data will not be saved and be cleared.
- (11) “BACK” means it goes back to the previous menu :Motion.
- (12) “EXIT” means it goes out of MENU.

SCAN MENU

NUMBER : 01

TITLE : NONE

SPEED : NONE

DWELL : NONE

MOTION TYPE : NONE

DIRECTION : NONE

START POS ▶

END POS ▶

SAVE

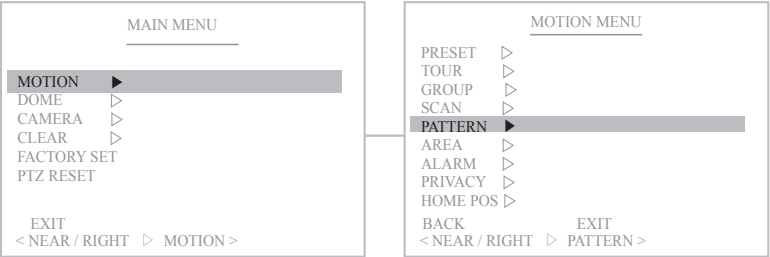
CLR

BACK

EXIT

<NEAR ▶ DATA SAVE >

4.2.5 Pattern

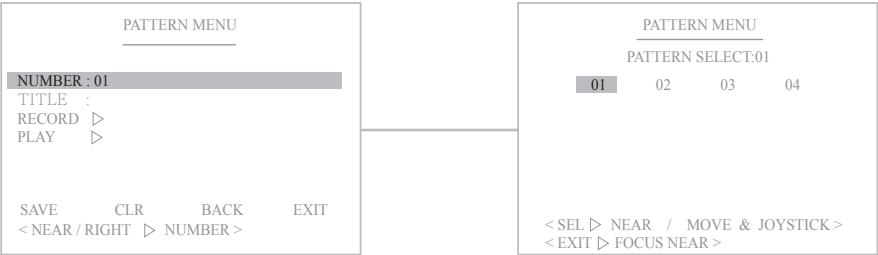


The Pattern function memorizes User's random moving path and zoom ratio. Total recording time limit is 65secs and maximum 4 Pattern functions are toured in order.

(1) Select the Pattern number

P01 : Defined Pattern number / 01 : Undefined Pattern number

Move :  Select : 



(2) Set the Pattern TITLE

Move :  Select :  or  Delete :  or 

It's available to set the desired TITLE, displayed on the executing screen of Pattern.



After the TITLE set, push NEAR button to go out.

(3) Record and Save the User's random Pattern data

① Select the "Record" Menu



OR



JOYSTICK

② Move and record the pattern



JOYSTICK

③ NEAR -> EXIT

FAR -> RECORD ON

PATTERN MENU

NUMBER : 01
TITLE :
RECORD ▶
PLAY ▶

SAVE CLR BACK EXIT
< NEAR / RIGHT ▶ RECORD >

PATTERN RECORD

<NEAR ▶ EXIT>
<FAR ▶ ON >
POSITION : 000.0, 000.0

(4) Play back the recorded Pattern data

PATTERN MENU

NUMBER : 01
TITLE :
RECORD ▶<08SEC>
PLAY ▶

SAVE CLR BACK EXIT
< NEAR / RIGHT ▶ PLAY >

(5) "Save" above setting Pattern data to the memory.

(6) "CLR" means above setting Pattern data will not be saved and be cleared.

(7) "BACK" means it goes back to the previous menu :Motion.

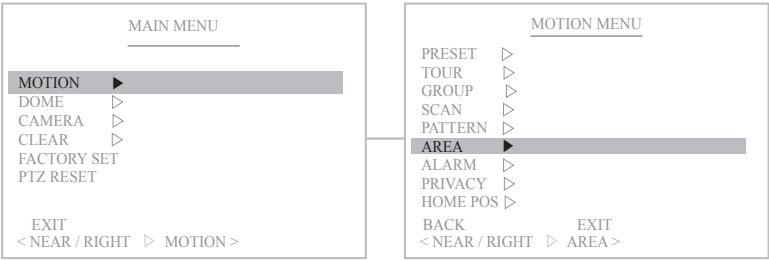
(8) "EXIT" means it goes out of MENU.

PATTERN MENU

NUMBER : 01
TITLE :
RECORD ▶<08SEC>
PLAY ▶

SAVE CLR BACK EXIT
< NEAR ▶ DATA SAVE >

4. 2. 6 Area



The Area function means that it displays the Area name between two programmed pan positions. Maximun 16 Area functions are toured in order.

- (1) Select the Area number
A01 : Defined Area number / 01 : Undefined Area number

Move :  Select : 

JOYSTICK



- (2) Set the Area TITLE

Move :  Select :  or  Delete :  or 

JOYSTICK

It's available to set the desired TITLE, displayed on the executing screen of Area.



After the TITLE set, push NEAR button to go out.

(3) Set the Direction

Select :  or  Set ON :  Set OFF : 

C _Clock WISE is counterclockwise mark, Clock WISE is clockwise mark.

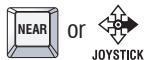
AREA MENU

NUMBER : 01
 TITLE :
 DIRECTION : <C_CLOCK WISE>
 S PAN POS. ▷
 E PAN POS. ▷

SAVE CLR BACK EXIT
 <NEAR / RIGHT ▷ DIRECTION >

(4) Define the Start pan position

- ① Select the "Start Pan Pos" menu
- ② Move and set the position
- ③ Set & Back



AREA MENU

NUMBER : 01
 TITLE :
 DIRECTION : NONE
 S PAN POS. ▷
 E PAN POS. ▷

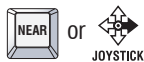
SAVE CLR BACK EXIT
 < MOVE & NEAR / START POS >

AREA START PAN POSITION

< EXIT ▷ FOCUS NEAR >
 POSITION : 000.0 000.0

(5) Define the END pan position

- ① Select the "END Pan Pos" Menu
- ② Move and set the position
- ③ Set & Back



AREA MENU

NUMBER : 01
 TITLE :
 DIRECTION : NONE
 S PAN POS. ▷
 E PAN POS. ▷

SAVE CLR BACK EXIT
 < MOVE & NEAR / END POS >

AREA STOP PAN POSITION

< EXIT ▷ FOCUS NEAR >
 POSITION : 000.0 000.0

- (6) “Save” above setting Area data to the memory.
- (7) “CLR” means above setting Area data will not be saved and be cleared.
- (8) “BACK” means it goes back to the previous menu :Motion.
- (9) “EXIT” means it goes out of MENU

AREA MENU

NUMBER : 01

TITLE :

DIRECTION : NONE

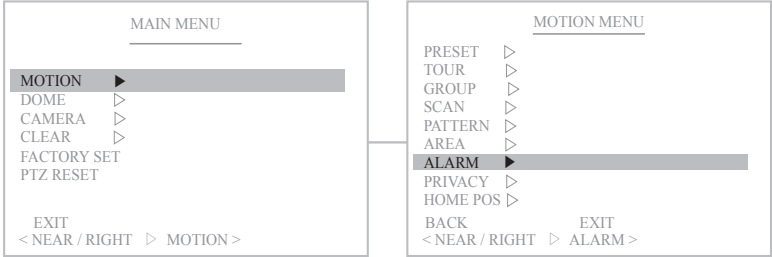
S PAN POS. ▷

E PAN POS. ▷

SAVE CLR BACK EXIT

< NEAR ▷ DATA SAVE >

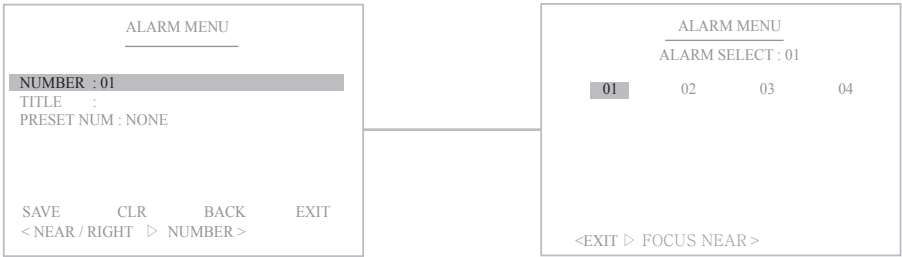
4.2.7 Alarm



The Alarm function means that the camera moves to the programmed Preset position by the Alarm trigger. Maximum 4 Alarm functions are toured in order.

- (1) Select the Alarm number
E01 : Defined Alarm number / 01 : Undefined Alarm number

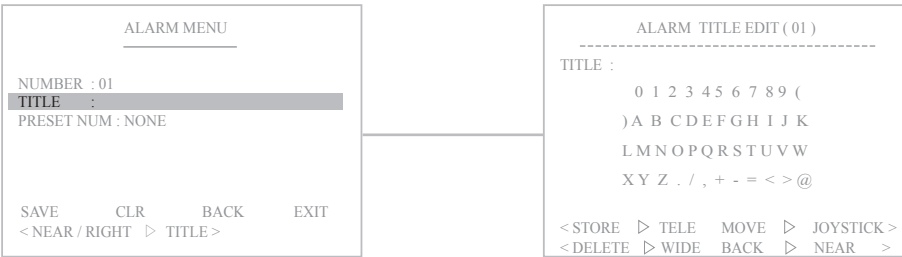
Move : JOYSTICK Select :



- (2) Set the Alarm TITLE

Move : JOYSTICK Select : or JOYSTICK Delete : or JOYSTICK

It's available to set the desired TITLE, displayed on the executing screen of Alarm.



After the TITLE is set, push the NEAR button to exit.

(3) Define the Preset position with Alarm trigger

- ① Select the "Preset Num"
- ② Move and set the position
- ③ Set & Back



or



JOYSTICK



JOYSTICK



ALARM MENU

NUMBER : 01

TITLE :

PRESET NUM : NONE

SAVE CLR BACK EXIT
 < NEAR / RIGHT > > JOYSTICK >

ALARM MENU

PRESET SELECT : 001

P001	P002	P003	P004	P005
006	007	008	009	010
011	012	013	014	015
016	017	018	019	020
021	022	023	024	025
026	027	028	029	030
031	032	033	034	035
036	037	038	039	040
041	042	043	044	045

<EXIT > FOCUS NEAR >
 <SEL > NEAR / MOVE > JOYSTICK >

(4) "Save" above setting Alarm data to the memory.

(5) "CLR" means above setting Alarm data will not be saved and be cleared.

(6) "BACK" means it goes back to the previous menu : Motion.

(7) "EXIT" means it goes out of MENU

ALARM MENU

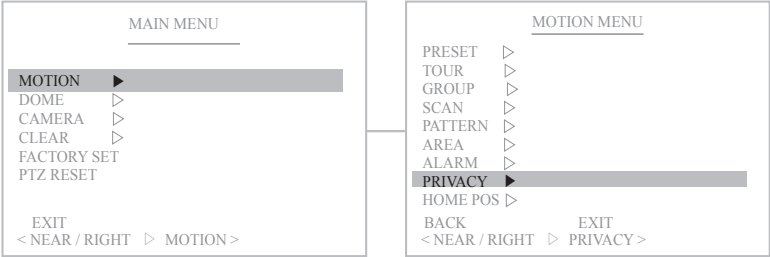
NUMBER : 01

TITLE :

PRESET NUM : NONE

SAVE CLR BACK EXIT
 < NEAR > > DATA SAVE >

4. 2. 8 Privacy Zone Masking



The Privacy Zone Masking function means that it sets the blocking territories to prevent camera functions for the privacy of personal reasons. Maximum of 8 Privacy Zone Masking functions are toured in order.

- (1) Select the Privacy Zone number
R01 : Defined Alarm number / 01 : Undefined Alarm number

Move :  JOYSTICK Select : 



- (2) Mask set

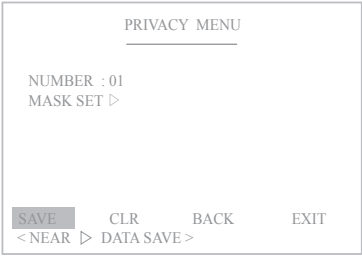
Move :  JOYSTICK Select :  or  JOYSTICK Delete :  or  JOYSTICK

It's available to set the desired position and size of the blocking territories freely.

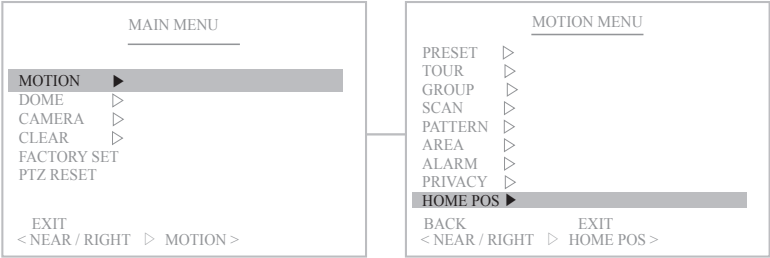


After the Privacy Zone is set, push the NEAR button to go out.

- (3) “Save” above settings of Privacy Zone data to the memory.
- (4) “CLR” means above setting of Privacy Zone data will not be saved and be cleared.
- (5) “BACK” means it goes back to the previous menu :Motion.
- (6) “EXIT” means it goes out of MENU.



4. 2. 9 Home Position



Home Position : Move to selected home position. (255 + Go To Preset)

(1) Home Position ON/OFF setting

Move :  Select : 



(2) Home Position SET

Move :  Select : 



4.3 Dome Setting

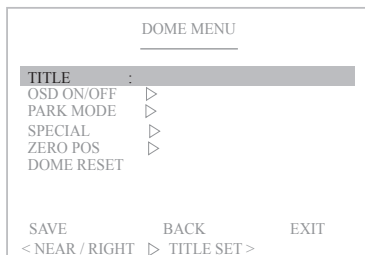


Pan, Tilt, Zoom motion is adjustable in the “Dome Setting” Menu.

4.3.1 Set the Dome camera title

Move : Select : or Delete : or

It's available to set the desired camera title.

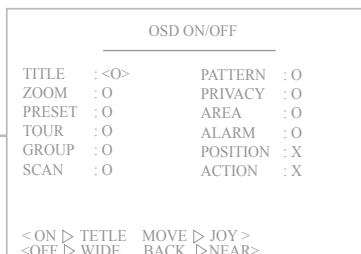
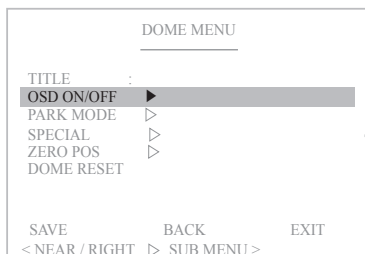


After the TITLE is set, push NEAR button to exit.

4.3.2 OSD ON/OFF Set

You can select the OSD ON to shown on the screen or clear by selecting OFF in this function.

Select : or Set ON : Set OFF :

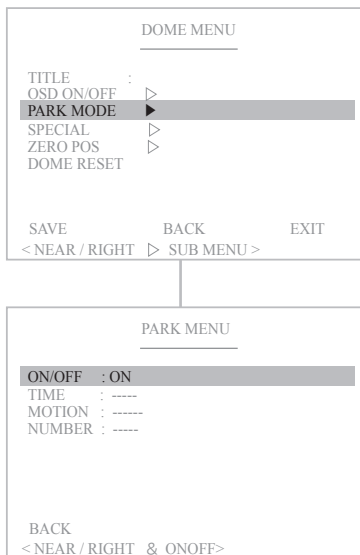


4. 3. 3 PARK MODE

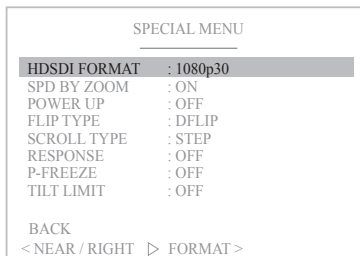
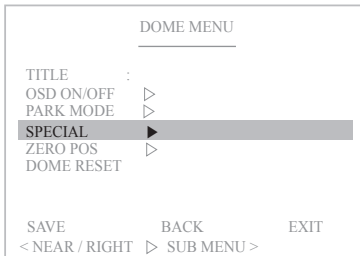
This function enables to locate the camera to specific position automatically if operator doesn't operate the controller for a while.



- ON/OFF : Select ON/OFF
- TIME : Select 10 sec~1 HOUR
- MOTION : Set PRESET / TOUR / GROUP / SCAN / PATTERN
- NUMBER
 - PRESET : 1~255
 - TOUR : 1~8
 - GROUP : 1~6
 - SCAN : 1~8
 - PATTERN : 1~4

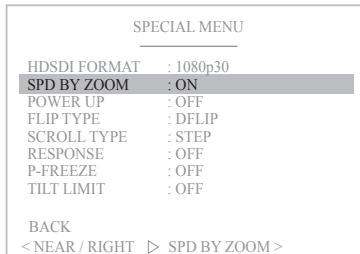
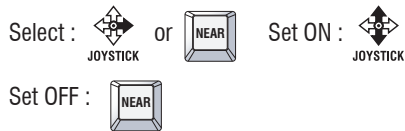


4.3.4 Special



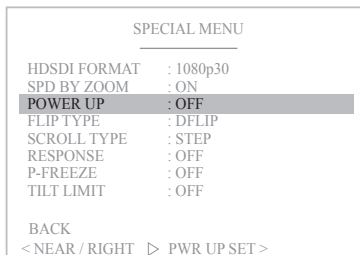
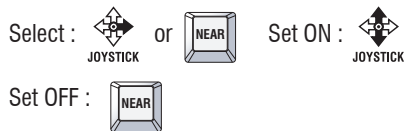
(1) HDSDI FORMAT

- 1080p/30(25) fps, 720p/30(25)fps , 720p/60(50)fps



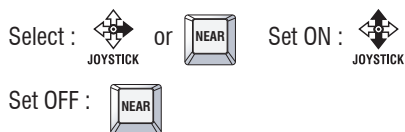
(2) SPEED BY ZOOM

Adjust PAN/Tilt Speed by Zoom ration.
(Available to check with max zoom rate.)



(3) POWER UP

When this function is ON, the camera memorizes the latest action and restores, it from sudden power failure.




SPECIAL MENU	
HDSI FORMAT	: 1080p30
SPD BY ZOOM	: ON
POWER UP	: OFF
FLIP TYPE	: DFLIP
SCROLL TYPE	: STEP
RESPONSE	: OFF
P-FREEZE	: OFF
TILT LIMIT	: OFF
BACK	
< NEAR / RIGHT ▷ FLIP TYPE >	

(4) FLIP TYPE

- OFF: TILT movement ranges from 0 ~90°
- FLIP: When TILT move to 90°, PAN 180° automatically reversed moved
- DFLIP: TILT movement ranges from 0 ~ 180°
(Reversal of Image with 90° degree angle.)

Select :  or  Set ON : 

Set OFF : 

SPECIAL MENU	
HDSI FORMAT	: 1080p30
SPD BY ZOOM	: ON
POWER UP	: OFF
FLIP TYPE	: DFLIP
SCROLL TYPE	: STEP
RESPONSE	: OFF
P-FREEZE	: OFF
TILT LIMIT	: OFF
BACK	
< NEAR / RIGHT ▷ TYPE >	


(5) SCROLL TYPE

Set the cursor progress

STEP : by 1 STEP

AUTO : Continuous scroll

Select :  or  Set ON : 

Set OFF : 

SPECIAL MENU	
HDSI FORMAT	: 1080p30
SPD BY ZOOM	: ON
POWER UP	: OFF
FLIP TYPE	: DFLIP
SCROLL TYPE	: STEP
RESPONSE	: OFF
P-FREEZE	: OFF
TILT LIMIT	: OFF
BACK	
< NEAR / RIGHT ▷ ON/OFF >	

(6) RESPONSE TXD

Tx communication line to transfer the unique value of protocol response.

(Use this function when the protocol is pelco-D 5.0 EZ.)

Select :  or  Set ON : 

Set OFF : 

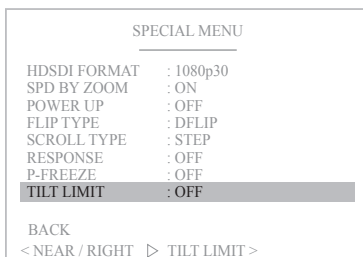
SPECIAL MENU	
HDSI FORMAT	: 1080p30
SPD BY ZOOM	: ON
POWER UP	: OFF
FLIP TYPE	: DFLIP
SCROLL TYPE	: STEP
RESPONSE	: OFF
P-FREEZE	: OFF
TILT LIMIT	: OFF
BACK	
< NEAR / RIGHT ▷ ON/OFF >	

(7) P-FREEZE

The screen is stopped while the camera is operating presetfunction.

Select :  or  Set ON : 


Set OFF : 



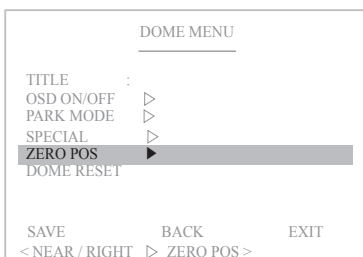
(8) TILT LIMIT

Set tilt stop angle. : off ~15°

Select :  JOYSTICK or  Set ON :  JOYSTICK


Set OFF : 

4. 3. 5 ZERO POSITION

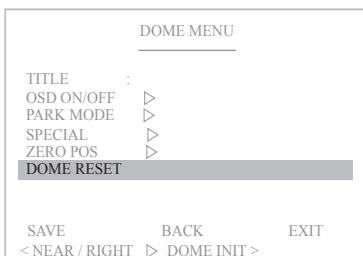


When select ON, the zero position is changeable.
POSITION change ZERO POSITION(000.0 / 000.0) value.

Select :  JOYSTICK or  Set ON :  JOYSTICK

Set OFF : 

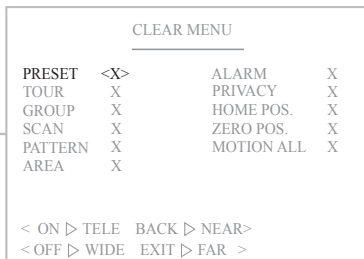
4. 3. 6 DOME RESET



DOME MENU initialization function.

4. 4 Clear Setting

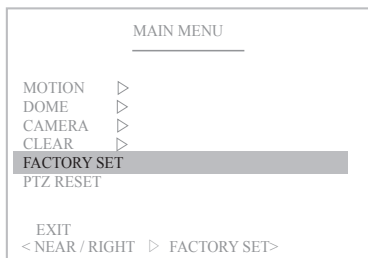
Clears the PTZ position and function value.



Select :  or  Set ON : 

Set OFF : 

4. 5 Factory set

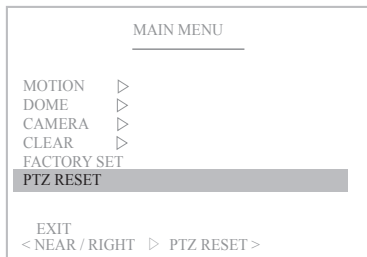


Clear the DOME, CAMERA and MOTION setting value.



Restore setting values to the factory default.
All existing setting value will be erased.

4. 6 PTZ Reset



It is a reset function.

5. SPECIFICATION

5.1 Mechanism Specification

5.1.1 MECHANICAL

- Pan : 360° Continuous Pan, 0.1° to 120°/sec.
- Pan Preset Speed : 360°/sec, $\pm 0.1^\circ$ Accuracy
- Tilt : 0.1° to 120°/sec.
- Tilt Preset Speed : 250°/sec, $\pm 0.05^\circ$ Accuracy
- Weight : Approximately 1.5Kg
- Dimensions Set : 125(Ø)x193.7H(mm)

5.1.2 ENVIRONMENTAL

- Construction : Aluminum
- Color : Cool gray
- Operating Temp : Indoor -10°C to 50°C
- Humidity : 0% to 90%(non-condensing)
- Fan operate : 50°C on, 40°C off

5.1.3 FUNCTIONS

- Preset : 255 points, less than 0.1° accuracy
- Tour : 8 programmable
- Pattern : 4 patterns for 60 second.
- Group : 6 group(Max.6 Tours are programmable in each Group)
- Scan : 8 (programmable speed and diagonal scan)
- Privacy Zone : 8 block with title (Mask)
- ID Address : Up to 255 selectable ID (Rotary switch)
- Data Communication Control : RS-485 / RS-422
- Protocol : Multiple protocol (PELCO D/P, WTX, EZP)
- Baud rate : 2400, 4800, 9600, 19200, 38400, 57600, 115200 bps selectable
- Alarm : 4 alarm
- Display : 16 Area title
- Auto Flip : Off / AUTO / DIGITAL

5.1.4 ELECTRICAL

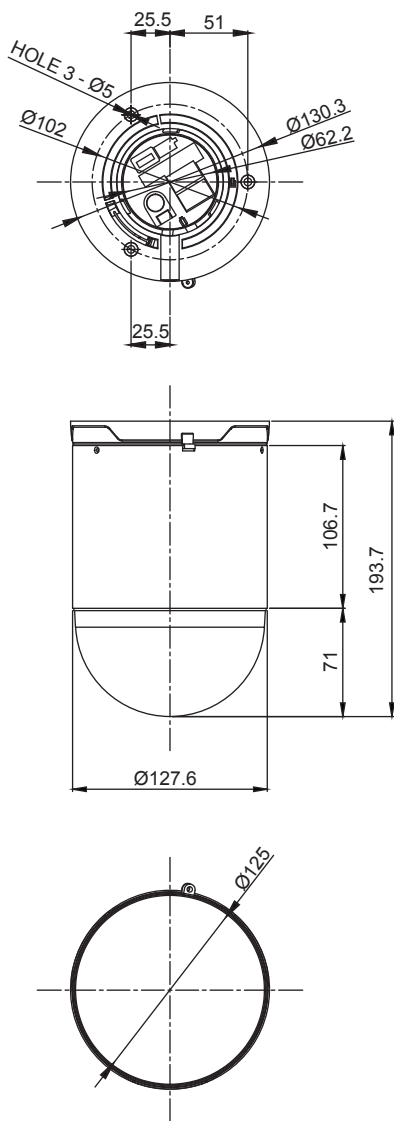
- Power : AC24 /DC 15~26V
- Power Consumption : 8W / Max 11W(FAN&IP ON)
- RS-422, 485 : Dip Switch setting

5.1.5 USER CONNECTIONS

- Data communication connection : RS-422, 485 + / - Optional Control Data
- HD-SDI connection : BNC
- Alarm Inputs : 4 Programmable
- Relay : 2 Dry Contact Output Rating: 2A @30VAC

6. DIMENSION

6.1 DIMENSION



7. CONFIGURATION

7.1 Connecting to Keyboard with DVR

