

INSTALLATION / OPERATING MANUAL

IR PTZ 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.

TABLE OF CONTENTS

1.	PRECAUTIONS 1. 1 Important Safety Instruction	ο.
2.	GETTING STARTED 2. 1 Unpacking4	0.
	2. 2 Part name	
	2. 3 DIP Switch Setting 5	
	2. 4 Cable Connection	ρ.
3.	INSTALLATION	
	3. 1 Installation	ρ.
4.	MAIN SETUP MENU	
	4, 1 Initialize	0.
	4. 2 Motion Setting	ο.
	4. 3 Dome Setting	Ĵρ.
	4. 4 Clear Setting	1p.
	4. 5 Factory set	1p.
	4. 6 PTZ Reset	1p.
	4. 7 Other Quick Opercating Guide 4	1p.
5.	SPECIFICATION	
	5. 1 Mechanism Specification	2p.
6.	DIMENSION	
	6. 1 DIMENSION	3р.
7.	CONFIGURATION	
	7. 1 Connecting to Keyboard with DVR4	âр.

1. PRECAUTIONS





1.1 Important Safety Instruction

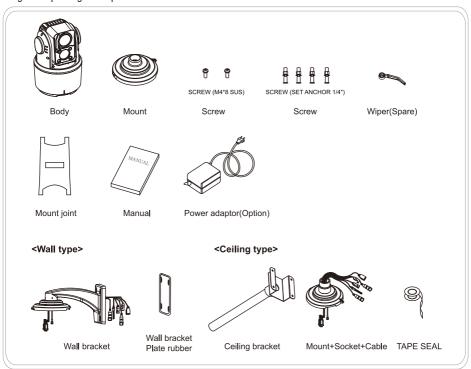
- · Read these instructions.
- Pay attention on all the warnings.
- Follow all instructions.
- Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- Do not dissemble or insert foreign objects.
- Do not install near any heat sources such as radiation, beat 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 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

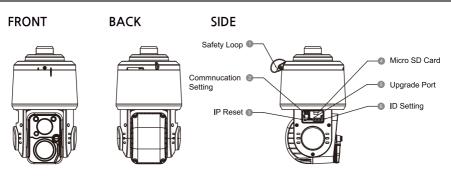
2.1 Unpacking

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

<Figure 1. package Components>



12.2 Part name



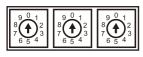
*DIP S/W setting refers page 5.

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.

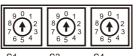
1.Set the camera address (ID)

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



Address switch

* ID setting is 1~255 available



(x1)

S3 (x10) (x100)

S1: 1-digit number of address

S3: 10-digit number of address

S4: 100-digit number of address

Ex) S4 = 1

S3 = 2

S1 = 8

The ID number is 128.

5 6

2. Protocol, Baudrate, Camera setting



- 5	ν	ν	_

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

	OFF	OFF	OFF	2400
	OFF	OFF	ON	4800
	OFF	ON	OFF	9600
ı	OFF	ON	ON	19200
ı	ON	OFF	OFF	38400
ı	ON	OFF	ON	57600
ı	ON	ON	OFF	115200
	ON	ON	ON	NC

7	RSMODE	8	NTSC/PAL
OFF	RS-422	OFF	NTSC
ON	RS-485	ON	PAL

9	RS LOOP	1
OFF	OFF	0
ON	ON	0

10	SDI
OFF	HD-SDI
ON	EX-SDI

BAUDRATE



SW3

3.Set the termination On/Off



ON: Terminated

OFF: Not terminated

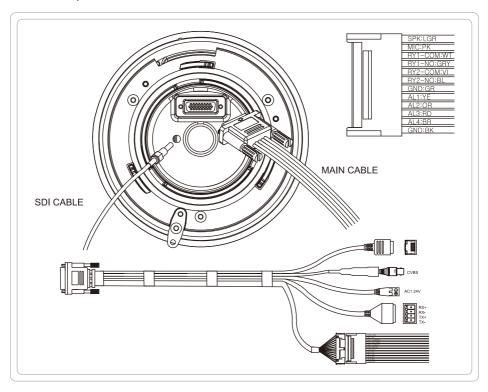
IP SELECT 2 UCC 0FF IP OFF **OFF** OFF ON IP ON ON ON

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.

12.4 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 SDI Output connection

Connect the 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.



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

- Power Terminal: 2PIN

- Com Terminal: 4PIN

3. Installtion

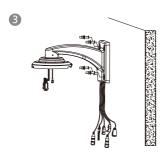
- The following steps of installation and connection work should be done by qualified service personnel or system installers and should conform to all local codes.
- Be sure to switch the camera off before installation is completed.
- Do not install the camera near the air outlet of an air conditioner.
- 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 Installtion

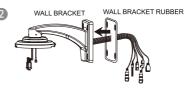
<Wall Mount Type>



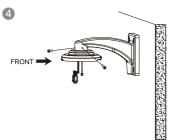
Install calbes into the bracket first.



Install the bracket to the wall using anchor bolt.

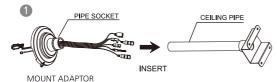


Attach the provided wall bracket rubber to a wall bracket as shown in the below picture.



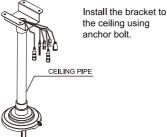
After connecting the cable, set the mount in the proper position and fix the 2 screws (M4*8)

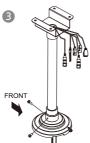
<Ceiling Mount Type>



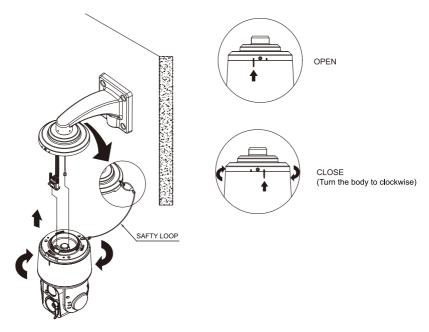
When install the ceiling bracket, screw the ceiling pipe to the pipe socket as figure.



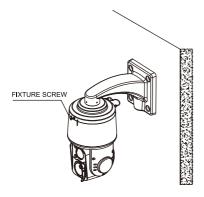




After connecting the cable, set the mount in the proper position and fix the 2 screws (M4*8)



- 1. Connect the safety loop on the body and mount back side.
- 2. Connect MAIN cable and SDI cable onto the main body as figure. (Caution! Fix the main body tightly.)
- 3. Align the arrow mark in the body and mount.
- 4. Fix the body by turn it to clockwise.



Fix the Fixture screw tightly.

4. MAIN SETUP MENU

4. 1 Initialize

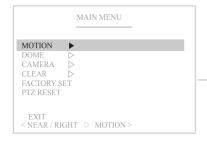
When the device is powered on, you can check the address, version, protocol and video setting values.

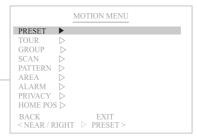
: 001 VERSION : X. XX D-OUTPUT: 1080p30/NTSC IP INFO : IP PROTOCOL 2400 (CU) RS INFO : PELCO D 2400, N, 1/422 : XX XXX..OK VER: XX, XX ▷ PAN INIT OK OK ▷ NORMAL SETTING WAIT .

ΙP

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

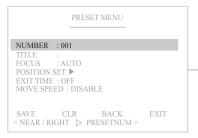
P001: Defined Preset number / 001: Undefined Preset number

Move:

. (

Select :





(2) Set the Preset TITLE

Select:

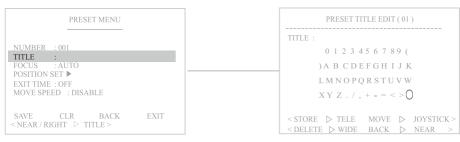




Delete:



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
 - Select the Focus menu

② Move and set the Focus Menu







On focus menu, there are 3 modes

- : AUTO, MANUAL, ONESHT.
- * Focus will be adjusted once after preset moving.

- (4) Define the Preset position
 - Select the Position menu

② Move and set the position















PRESET MENU NUMBER: 001 POSITION SET ▶ EXIT TIME: OFF MOVE SPEED : DISABLE CLR BACK < NEAR / RIGHT ▷ PRESET POSITION >

<EXIT ▷ FOCUS NEAR > SET POSITION P: 000 T: 000 Z: x01

PRESET POSITION

(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: OFF

Select :

NEAR

Set ON:

Set OFF:





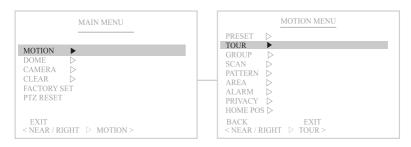
(6) MOVE SPEED

: Set the move speed(1~64)



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

4. 2. 2 Tour



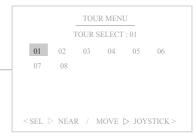
The Tour function consists of several presets run by turn. It is also adjusts the moving speed $(1\sim64 \text{ step})$ and dwell time $(1\sim99\text{secs})$. Maximum of 8 Tour functions are toured in order. (% 1 Tour can be set for 15 presets.)

(1) Select the Tour number

T01: Defined Tour number / 01: Undefined Tour number







(2) Set the Tour TITLE

Move : Joystick

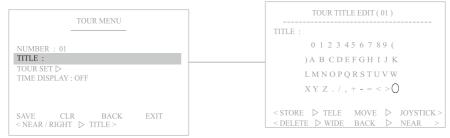
Select:



Delete :



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

Move to the set-up window





② Move and set the position





③ Set & Back



		TO	UR M		_
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

(4) Time Display



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

Select:

NEAR

Set ON:



Set OFF:





- (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

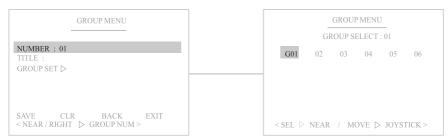


GROUP: You can make Max. 6 groups and call the saved tour by turn.

(1) Select the Group number

 ${\sf G01}$: Defined Group number / ${\sf O1}$: Undefined Group number Set from 1to 6 groups.

Move: Select: NEAR



(2) Set the Group TITLE

Move: Select: TELE or O Delete: WIDE or O JOYSTICK

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

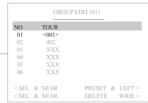
1 Move to the set-up window





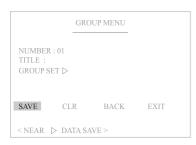






② Move and set the position

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



- (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

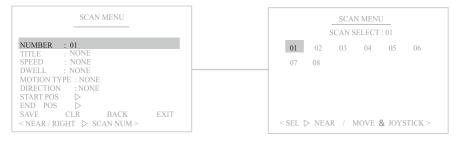


The Scan function means that the camera keeps panning between two programmed pan positions. It is also adjusts the moving speed($1 \sim 64$ step). Maximum 8 Scan functions are toured in order.

(1) Select the Scan number

S01: Defined Scan number / 01: Undefined Scan number

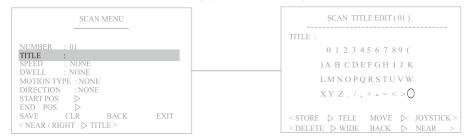
Move: Select: NEAR



(2) Set the Scan TITLE

Move: Select: TELE or Operation Delete: WIDE or Operation

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:



• IDASTICK

Decrease:



Or O

It adjusts the moving speed from 1~64 steps.

(4) Set the Dwell Time

Increase :





Decrease:





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: <







Set OFF: NEA

SCAN MENU

NUMBER: 01
TITLE:
SPEED: NONE

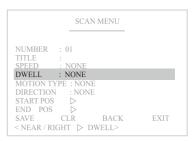
DWELL: NONE

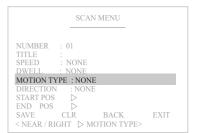
MOTION TYPE: NONE

DIRECTION: NONE

START POS >
END POS >
SAVE CLR BACK EXIT

< NEAR/RIGHT > MOVE SPEED>







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.

Set ON:

Set OFF:



(7) Define the Start position

- Select Start Pos menu



② Move and set the position



3 Go back





(8) Define the End position

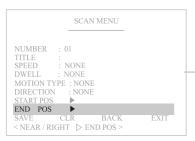
- Select End Pos menu
- ② Move and set the position
- 3 Go back









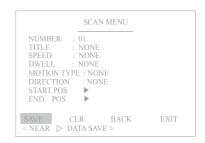


SET POSITION P: 000 T: 000 Z: x01

SCAN END POSITION

- 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.



4. 2. 5 Pattern

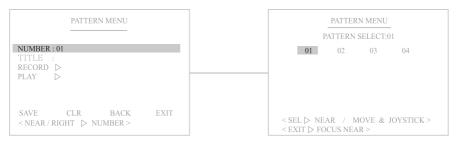


The Pattern function memorizes User's random moving path and zoom ratio. Total recording time limit is 65secs and maximum 4 Pattern functions are toured in order.

(1) Select the Pattern number

PATO1: Defined Pattern number / 01: Undefined Pattern number

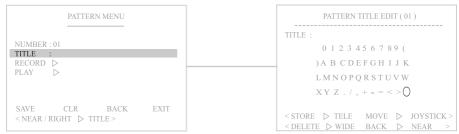
Move: Select: NEAR



(2) Set the Pattern TITLE

Move : Select : TELE or ODelete : WIDE or ODE

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

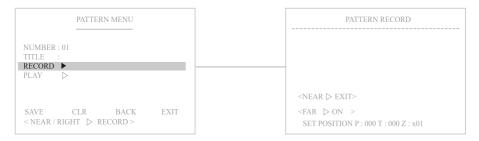


After the TITLE set, push NEAR button to go out.

- (3) Record and Save the User's random Pattern data
 - Select the "Record" Menu
- 2 Move and record the pattern
 3 NEAR -> EXIT
 - ③ NEAR -> EXIT FAR -> RECORD ON



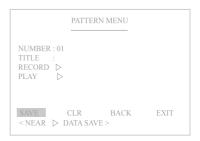




(4) Play back the recorded Pattern data



- (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.



4.2.6 Area

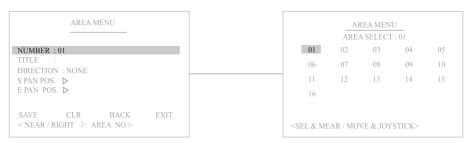


The Area function means that it displays the Area name between two programmed pan positions. Maximun 16 Area functions are toured in order.

(1) Select the Area number

AR 01: Defined Area number / 01: Undefined Area number

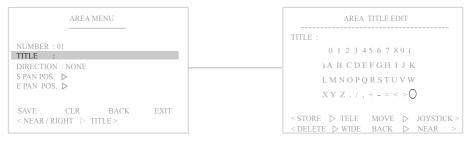




(2) Set the Area TITLE



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







Set ON: Set OFF:





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



(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 DIRECTION: NONE S PAN POS. **•** E PAN POS. > CLR BACK < MOVE & NEAR / START POS >

SET POSITION P: 000 T: 000 Z: x01

(5) Define the END pan position

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

AREA STOP PAN POSITION









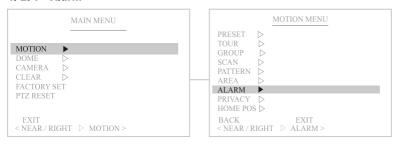
AREA MENU NUMBER: 01 DIRECTION: NONE S PAN POS. D E PAN POS. D CLR BACK < MOVE & NEAR / END POS >

SET POSITION P: 000 T: 000 Z: x01

- (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



4. 2. 7 Alarm

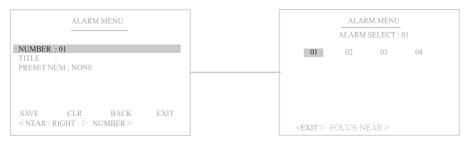


The Alarm function means that the camera moves to the programmed Preset position by the Alarm trigger. Maximum 4 Alarm functions are toured in order.

(1) Select the Alarm number

E01: Defined Alarm number / 01: Undefined Alarm number

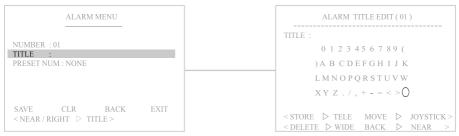
Move: Select: NEAR



(2) Set the Alarm TITLE



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



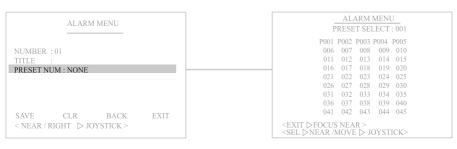
After the TITLE is set, push the NEAR button to exit.

- (3) Define the Preset position with Alarm trigger
 - Select the "Preset Num"
- ② Move and set the position
- 3 Set & Back









- (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



4. 2. 8 Privacy Zone Masking

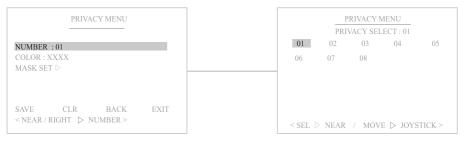


The Privacy Zone Masking function means that it sets the blocking territories to prevent camera functions for the privacy of personal reasons. Maximum of 8 Privacy Zone Masking functions are toured in order.

(1) Select the Privacy Zone number

R01: Defined Alarm number / 01: Undefined Alarm number





(2) Color Setting Select BLACK/WHITE



You can change the color of the privacy mask. Choose the color you want from the menu.

Default color: WHITE

(3) Mask set

Move: Select: TELE or Operation Delete: WIDE 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.

- (4) "Save" above settings of Privacy Zone data to the memory.
- (5) "CLR" means above setting of Privacy Zone 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. 9 Home Position



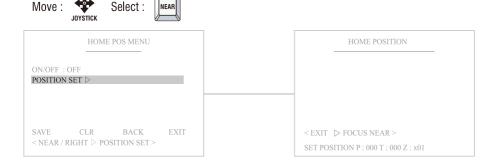
Home Postion: Move to selected home position. (255+PRESET)

(1) Home Position ON/OFF setting



(2) Home Position SET

Move:



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 :



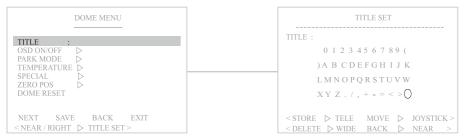


Delete:





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:



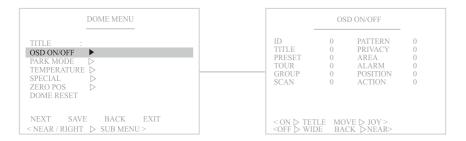


NEAR Set ON:



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 / HOMEPOS

- NUMBER

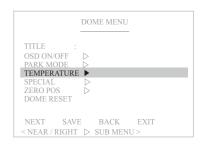
PRESET: 1~255

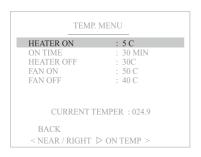
TOUR: 1~8
GROUP: 1~6
SCAN: 1~8
PATTERN: 1~4



4. 3. 4 TEMP MODE

It shows you the current temperature and you can also set the value manually. The compulsory Fan & Heater operation is a useful function to remove humidity.





(1) HEATER ON

Set the operating temperature of the heater $(0 \sim 70^{\circ})$

Select:

Set ON:

Set OFF:



HEATER ON	: 5 C
ON TIME	: 30 MIN
HEATER OFF	: 30 C
FAN ON	: 50 C
FAN OFF	: 40 C
CURRENT T	EMPER : 024.9

(2) ON TIME

Set the operating time of the heater.

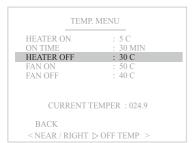
- By 10min. (10~60 min.)

Select:

Set ON



Set OFF:



(3) HEATER OFF

Set the temerature of heater OFF. $(0\sim70^{\circ}\text{C})$

Select:

Set ON:

JOYSTICK

Set OFF:

TEMP. MENU

HEATER ON : 5 C ON TIME : 30 MIN HEATER OFF : 30 C FAN ON : 50 C

FAN ON : 50 C FAN OFF : 40 C

CURRENT TEMPER: 024.9

TEMP. MENU

BACK

HEATER ON

ON TIME HEATER OFF

FAN OFF

< NEAR / RIGHT > FAN ON >

(4) FAN ON

Set the operating temperature of the Fan. $(0\sim70\,^{\circ}\text{C})$

Select: or



Set ON: <



Set OFF:



(5) FAN OFF

Set the temperature of Fan OFF. $(0\sim70^{\circ}\text{C})$

Select :

Set OFF:



NEAR Set ON:

: SOYSTICK

CURRENT TEMPER: 024.9

30 MIN

30 C

50 C

: 40 C

BACK

< NEAR / RIGHT > FAN OFF >

4.3.5 Special



SI	PECIAL MENU
SDI FORMAT	: 1080p30
SPD BY ZOOM	: ON
POWER UP	: OFF
FLIP TYPE	: OFF
SCROLL TYPE	: STEP
RESPONSE	: OFF
P-FREEZE	: OFF
D . 077	
BACK	
< NEAR / RIGHT	→ FORMAT CHG >

SPECIAL MENU SDI FORMAT : 1080p30 SPD BY ZOOM : ON POWER UP : OFF FLIP TYPE : OFF SCROLL TYPE : STEP RESPONSE : OFF P-FREEZE : OFF BACK <NEAR/RIGHT > SPD MODE >

080р30 N FF FF ГЕР
FF FF FEP
FF FEP
ΓEP
FF
FF

(1) SDI FORMAT

- 1080p/30(25)fps / 1080p/60(50)fps / 720p/30(25)fps / 720p/60(50)fps
- * Video format setting depends upon the models.
- * Video format is not applied for analogue models.



Set OFF:

(2) Speed by Zoom

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

elect: 👯 o

NEAR

Set ON:



(3) POWER UP

Set OFF:

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

Select:



NEAR

Set ON:



Set OFF:



SDI FORMAT : 1080p30 : ON POWER LIP OFF FLIP TYPE : OFF RESPONSE · OFF P-FREEZE : OFF BACK < NEAR / RIGHT > TYPE >

: 1080p30 POWER UP : OFF SCROLL TYPE : STEP : OFF BACK < NEAR / RIGHT > TYPE >





(4) FLIP TYPE

- OFF: TILT movement ranges from 0 ~90°

- FILP: When TILT move to 90°, PAN 180° automatically reversed moved

- DFLIP : TILT movement ranges from $0 \sim 180^{\circ}$ (Reversal of Image with 90° degree angle.)

Select:

Set ON:

Set OFF: NEAR

(5) SCROLL TYPE

Set the cursor progress STEP: by 1 STEP

AUTO: Continuous scroll

Set ON:

Set OFF:

(6) RESPONSE TXD

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

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

Set ON:

Set OFF:



(7) P-FREEZE

The screen is stopped while the camera is operating presetfuntion.

Select:

NEAR

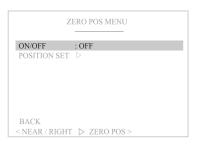
Set ON:

Set OFF:



4. 3. 6 ZERO POS





When select ON, the zero position is changeable.

POSITION change 000.0 / 000.0 value.

Select :



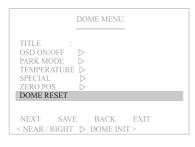
NEAR

Set ON:

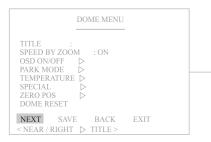
Set OFF:



4.3.7 DOME RESET



DOME MENU initialization function.

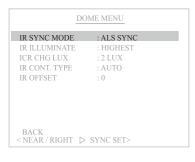




4. 3. 8 EXTERNAL IR SET

DOM	ME MENU
EXTERNAL IR SET	>
WIPER SETTING	
INIT. SETTING	
NEXT SAVE < NEAR / RIGHT >	

Set the IR function.



DOME MENU

: ALS SYNC

: HIGHEST

: AUTO

: 0

< NEAR / RIGHT ▷ ILLUMINATE >

IR SYNC MODE

IR ILLUMINATE

ICR CHG LUX

IR CONT. TYPE

IR OFFSET

BACK

(1) IR SYNC MODE

ALS SYNC : Synchronized in visible light.

ALL ON: IR always on. ALL OFF: IR always off.

ICR SYNC : Operate External IR connected Camera ICR

Factory default is ALS SYNC .

Select: JOYSTICK



Set ON:

Set OFF:



(2) IR ILLUMINATE

HIGHEST: Output the Max.IR light
HIGH: Output the hight level of IR light
LOWEST: Out put the Min. IR light
LOW: Output the low level of IR light

Factory default is HIGHEST.

Select :



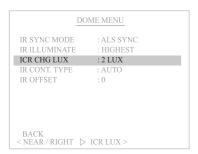


Set ON:



Set OFF :





(3) ICR CHG LUX

Set the Day / Night ICR illumination. (0.5 \sim 20)

* Factory default is 2 LUX.

Select : JOYSTICK

NEAR

Set ON:

♦>

Set OFF:

NEAR

DOME MENU IR SYNC MODE : ALS SYNC IR ILLUMINATE : HIGHEST ICR CHG LUX : 2 LUX IR CONT. TYPE : AUTO IR OFFSET : 0 BACK <NEAR/RIGHT ▷ IR CONT. TYPE>

(4) IR CONT. TYPE

Select AUTO or USER mode in IR Zoom function.

* factory default is AUTO.

ct: <

)r NE

NEAR Set ON:

INVSTIC

Set OFF:





(5) IR OFFSET

Set the IR sensitivity. (-4~4) * Factory default is 0

select : 🤲 or

NEAR

Set ON:



Set OFF:



4.3.9 WIPER SETTING



Set the wiper function.

WIPER SETTING WIPER MODE : OFF MODE WIPER POSITION : BOTTOM WIPER INT. TIME WIPER ON TIME BACK < NEAR / RIGHT ▷ MODE >

(1) WIPER MODE

Select ON MODE / OFF MODE / TIME SET to use the wiper function.

(Default : OFF MODE)

TIME SET: Wiper operates once at regular interval which is set in this menu.

Select:

Set ON:

Set OFF:

WIPER SETTING

WIPER MODE OFF MODE WIPER POSITION : BOTTOM WIPER INT. TIME : XXXXX : XXXXX WIPER ON TIME

BACK < NEAR / RIGHT > WIPER POS>

(2) WIPER POS.

Set wiper position function. (RIGHT, BOTTOM)

Set ON:

Set OFF:



WIPER SETTING

WIPER MODE : OFF MODE WIPER POSITION BOTTOM WIPER INT, TIME : XXXXX WIPER ON TIME · XXXXX

BACK

< NEAR / RIGHT ▷ WIPER TIME>

(3) WIPER INTERVAL TIME

10SEC / 20SEC / 30SEC / 1MIN / 2MIN / 4MIN / 6MIN / 8MIN / 10MIN / 20MIN / 30MIN / 1HOUR / 2HOUR / 4HOUR

The wiper will be operated on as the time set on the interval.

* The wiper will be operated during the time set on the Wiper On Time.

Select:

NEAR

Set OFF:



WIPER SETTING

WIPER MODE : OFF MODE WIPER POSITION : BOTTOM WIPER INT. TIME WIPER ON TIME : XXXXX

BACK

< NEAR / RIGHT > WIPER TIME>

(4) WIPER ON TIME

1MIN / 10MIN / 30MIN / 1HOUR / 2HOUR / 4HOUR / 6HOUR / 8HOUR / ALWAYS

The wiper will be operated during the time set on the Wiper On Time.





Set OFF:



4. 3. 10 INIT. SETTING



This function performs re-energization of the product and the initialization operation continuously after the specified time has elapsed.



INIT. MODE: OFF. ON

(1) INIT. Setting

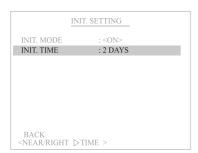
Set whether to use the initialization operation function when the specified time has elapsed.

Factory default value is OFF

Select: Or NEA

Set ON:

Set OFF:



(2) INIT. TIME

Set the cycle to perform the initial operation.

After the product is turned off, initialization is performed at each startup time.

12 hours / 1 day / 2 days / 3 days / 5 days It can be selected when INIT.MODE is ON.

Select:

Or NEAR

Set ON:

IDASLICK

Set OFF:

NEAR

■ 4.4 Clear Setting

Clears the PTZ position and function value. Select:





Set ON:

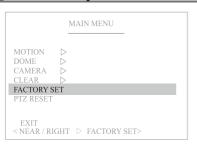
Set OFF:







4.5 Factory set

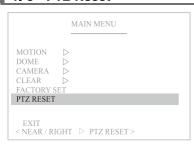


Clear the DOME, CAMERA and MOTION setting value.



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

4.6 PTZ Reset



It is a reset function.

4.7 Other Quick Opercating Guide

ICR AUTO (ON) = 240 + F1 Long Preset ICR DAY (ON) = 241 + F1 Long Preset ICR NIGHT (ON) = 242 + F1 Long Preset WIPER (ON / OFF) = 244 + F1 Long Preset HEATER (ON / OFF) = 245 + F1 Long Preset IR ZOOM (AUTO / MANUAL) = 248 + F1 Long Preset LIGHT (ON / OFF) = 252 + F1 Long Preset INFO (ON / OFF) = 255 + F1 Long Preset

* The keyboard shortcut of IR ZOOM (DOME SUB MENU -> 1) IR CONT. TYPE->MANUAL 2) ICR NIGHT->ON)

Select :





5. SPECIFICATION

Mechanism Specification 5.1

5. 1. 1 MECHANICAL

- Pan : 360° Continuous Pan, 0.1° to 120°/sec.

- Pan Preset Speed : $360^{\circ}/\text{sec}$, $\pm 0.1^{\circ}$ Accuracy

- Tilt

: -8°(352°) to 188° movement, 0.1°~80°/sec (proportional to zoom)

- Tilt Preset Speed : 250°/sec, ± 0.05° Accuracy

- Weight : 4.18Kg

- Dimensions Set : 180 (Ø) x 322(mm)

5. 1. 2 ENVIRONMENTAL

: Aluminum - Construction

: IP66 (Outdoor Housing) - Ingress Protection

- Operating Temp : Outdoor -40°C to 60°C (-40° F to 140° F)/ with 5W Heater

- Humidity : 0% to 90% (non-condensing)

: 50°C on , 40°C off - Fan operate : 5°C on , 30°C off - Heater operate

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/UCC(Only PELCO D / Baud 9600)

: Multiple Protocol(PELCO D/P, WTX, EZP) Protocol

- Baud rate : 2400, 4800, 9600, 19200, 38400, 57600, 115200 bps selectable

- Alarm : 4 alarm : 16 Area title Display

- Auto Flip : OFF / AUTO / DIGITAL

5. 1. 4 ELECTRICAL

- Power : AC21~26V 60Hz / 50Hz(Power adaptor not included)

- Power Consumption : 2A Operation / MAX 3A

- Camera Power Consumption: 18.0W - Heater Power Consumption: 5W

- RS-422, 485 : Dip Switch setting

5. 1. 5 USER CONNECTIONS

- Data communication connection: RS-422, 485 + / - Optional Control Data

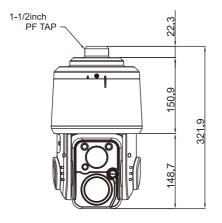
- SDI connection : BNC

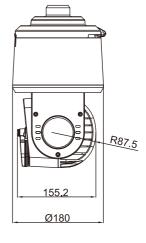
- Alarm Inputs : 4 Programmable

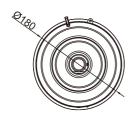
: 2 Dry Contact Output Rating: 2A @30VAC - Relay

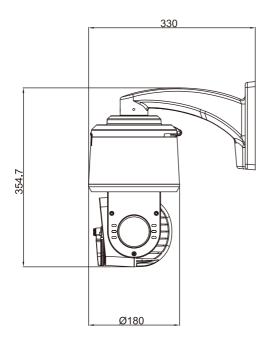
6. DIMENSION

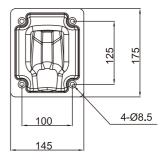
6.1 DIMENSION

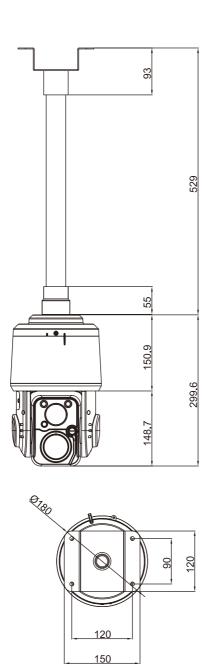


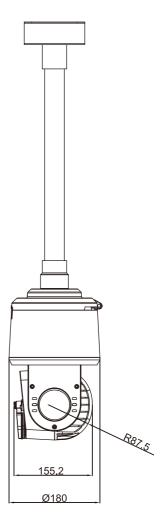












7. CONFIGURATION

7.1 Connecting to Keyboard with DVR

