

User Manual

PTM-520CDN/PTM-520WDN/PTM-520HDN Mini PTZ Camera



Features

- Camera Specifications**
 - 1/4" Interline Transfer HAD CCD
 - More Than 520 TV Lines (Color)/570 TV Lines (B/W) of Horizontal Resolution
 - High Sensitivity, Minimum Illumination of 0.02 Lux
 - Electronic Day/Night Function
 - Optical Zoom, Digital Zoom Function
 - Digital Noise Reduction for Reducing HDD capacity
 - Built-in OSD (On Screen Display)
- Powerful Pan/Tilt Functions**
 - Max. 360°/sec high speed Pan/Tilt Motion
 - Using Vector Drive Technology, Pan/Tilt motions are accomplished in a shortest path. As a result, time to target view is reduced dramatically and the view on the monitor is very natural to watch.
 - For jog operation using a controller, since ultra slow speed 0.05°/sec can be reached, it is very easy to locate camera to desired target view. Additionally it is easy to move camera to a set point with zoom-proportional pany/tilt movement.
- Preset, Pattern, Swing, Group, Privacy Mask and More...**
 - Max. 127 Presets are assignable and characteristics of each preset can be set up independently, such as White Balance, Auto Exposure, Label and so on.
 - Max. 8 set of swing action can be stored. This enables to move camera repetitively between two preset positions with designated speed.
 - Max. 4 of Patterns can be recorded and played back. This enables to move camera as follow any trajectory operated by joystick as closely as possible.
 - Max. 8 set of Group action can be stored. This enables to move camera repetitively with combination of Preset or Pattern or Swing. A Group is composed of max. 20 entities of Preset/Pattern/Swing.
 - Privacy Masks are assignable, not to intrude on other's privacy. (Max. 4 privacy masks)

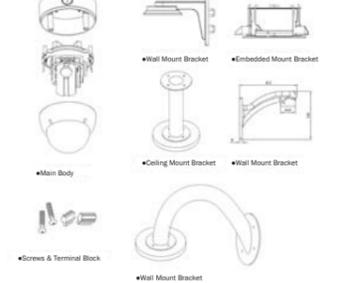
- PTZ (Pan/Tilt/Zoom) Control**
 - With RS-485 communication, max. 255 of cameras can be controlled at the same time.
 - Pelco-D or Pelco-P protocol can be selected as a control protocol in the current version of firmware.

- OSD (On Screen Display) Menu**
 - OSD menu is provided to display the status of camera and to configure the functions interactively.
 - The information such as Camera ID, Pan/Tilt Angle, Alarm Input and Preset can be displayed on screen.

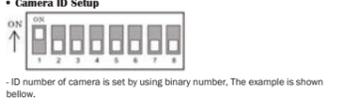
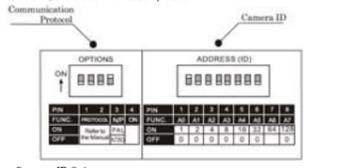
- Alarm I/O Functions**
 - 4 alarm sensor inputs are available.
 - To reject external electric noise and shock perfectly, alarm sensor input is decoupled with photo coupler.
 - The signal range of sensor input is from DC 5.0 to 12.0 volts to adopt various applications
 - If an external sensor is activated, camera can be set to move to the corresponding preset position.

- Reserved Presets for Special Purpose**
 - Most camera characteristics can be set up easily and directly with reserved preset, without entering into OSD menu. For more information, refer to "Reserved Preset" in this manual.

Product & Accessories



DIP Switch Setup



ID number of camera is set by using binary number. The example is shown below.

| Pin | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|------------|----|-----|----|-----|-----|-----|-----|-----|
| ID Value | 1 | 2 | 4 | 8 | 16 | 32 | 64 | 128 |
| e.x) ID=5 | On | Off | On | Off | Off | Off | Off | Off |
| e.x) ID=10 | On | Off | On | Off | On | Off | Off | Off |

- The range of ID is 1-255. Do not use 0 as camera ID. Factory default of Camera ID is 1.
- If you want to control a certain camera, you must match the camera ID with Cam ID setting of DVR or Controller.

Communication Protocol Setup



| Switch State | P1 | P2 | Protocol |
|--------------|-----|-----|-----------------|
| OFF | OFF | OFF | PELCO-D 2400bps |
| ON | OFF | OFF | PELCO-D 9600bps |
| OFF | ON | OFF | PELCO-P 4800bps |
| ON | ON | OFF | PELCO-P 9600bps |

- If you want to control using DVR or P/T controller, their protocol must be identical to camera. Otherwise, you can not control the camera.
- If you changed camera protocol by changing DIP S/W, the change will be effective after you reboot the camera.
- Factory default of protocol is "Pelco-D, 2400 bps"

- Reserved for Supplier**
 - Since Pin 3 - Pin 4 is only for supplier, **DO NOT CHANGE THESE ORIGINAL STATE**. If you change one of these, operation can not be achieved.
 - Pin 3 PAL/NTSC system selection of camera, **DO NOT CHANGE THIS PIN**.
 - Pin 4 Factory default is ON state. This pin is used for system firmware upgrade. **DO NOT CHANGE THIS PIN**.

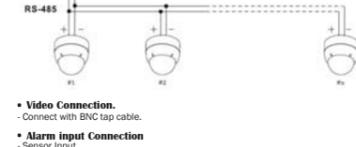
Cable connection



Power Connection

| Supply Power | Input Voltage Range | Power Consumption |
|--------------|---------------------|-------------------|
| DC 12V | DC 11V~18V | 0.8A |

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



Video Connection

- Connect with BNC tap cable.

Alarm Input Connection



Before connecting sensors, check driving voltage and output signal type of the sensor. Since output signal types of the sensors are divided into Open Collector and Voltage Output type in general, the cabling must be done properly after considering these types.

| Signal | Connection | Description |
|-----------------|--|-------------|
| IN COM+ | Connect (+) cable of electric power source for Sensors to this port as shown in the circuit above. | |
| IN1-IN2-IN3-IN4 | Connect output of sensors for each port as shown in the circuit above. | |

If you want use Alarm Input, the types of sensor must be selected in OSD menu. The sensor types are Normal Open and Normal. If sensor type is not selected properly, the alarm can't be activated properly.

- Check points before operation**
 - Before power is applied, please check the cables carefully.
 - The camera ID of the controller must be identical to that of the target camera. The camera ID can be checked by reading DIP switch of the camera.
 - If your controller supports multi-protocols, the protocol must be changed to match to that of the camera.
 - If you changed camera protocol by changing DIP switch, the change will be effective after you reboot the camera.
 - Since the operation method can be different for each controller available, refer to the manual for your controller if camera can be not be controlled properly. The operation of this manual is based on the standard Pelco@ controller.

- Preset and pattern Function Pre-Check**
 - Check how to operate preset and pattern function with controller or DVR in advance to operate the full function of camera when using controller or DVR.
 - Refer to the following table when using standard Pelco@ controller.

- Reserved Preset**
 - Go Preset-[95]: Enters into OSD menu
 - Go Preset-[131-134]: Runs Pattern Function 1-4
 - Go Preset-[141-148]: Runs Swing Function 1-8
 - Go Preset-[151-158]: Run Group Function 1-8
 - Go Preset-[170]: Sets Camera BLC Mode to OFF
 - Go Preset-[171]: Sets Camera BLC Mode to ON
 - Go Preset-[174]: Sets Camera Focus Mode to AUTO
 - Go Preset-[175]: Sets Camera Focus Mode to Manual
 - Go Preset-[176]: Sets Camera Focus Mode to SEMI-AUTO
 - Go Preset-[177]: Sets Day & Night Mode to AUTO
 - Go Preset-[178]: Sets Day & Night Mode to NIGHT
 - Go Preset-[179]: Sets Day & Night Mode to DAY
 - Go Preset-[190]: Sets OSD Display Mode to AUTO (Except Privacy Mask)
 - Go Preset-[191]: Sets OSD Display Mode to OFF (Except Privacy Mask)
 - Go Preset-[192]: Setting OSD Display Mode to NO (Except Privacy Mask)
 - Go Preset-[193]: Sets all Privacy Mask Display to OFF
 - Go Preset-[194]: Sets all Privacy Mask Display to ON

Starting OSD Menu

Function: using the OSD menu, Preset, Pattern, Swing, Group and Alarm Input function can be configured for each application. Enter Menu: <Go Preset-[95]

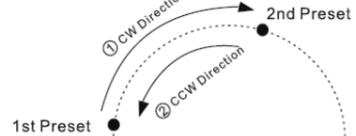
- Reserved Preset**
 - Description: Some Preset number are reserved to special functions.
 - Function :
 - Go Preset-[95]: Enters into OSD menu
 - Go Preset-[131-134]: Runs Pattern Function 1-4
 - Go Preset-[141-148]: Runs Swing Function 1-8
 - Go Preset-[151-158]: Run Group Function 1-8
 - Go Preset-[170]: Sets Camera BLC Mode to OFF
 - Go Preset-[171]: Sets Camera BLC Mode to ON
 - Go Preset-[174]: Sets Camera Focus Mode to AUTO
 - Go Preset-[175]: Sets Camera Focus Mode to Manual
 - Go Preset-[176]: Sets Camera Focus Mode to SEMI-AUTO
 - Go Preset-[177]: Sets Day & Night Mode to AUTO
 - Go Preset-[178]: Sets Day & Night Mode to NIGHT
 - Go Preset-[179]: Sets Day & Night Mode to DAY
 - Go Preset-[190]: Sets OSD Display Mode to AUTO (Except Privacy Mask)
 - Go Preset-[191]: Sets OSD Display Mode to OFF (Except Privacy Mask)
 - Go Preset-[192]: Setting OSD Display Mode to NO (Except Privacy Mask)
 - Go Preset-[193]: Sets all Privacy Mask Display to OFF
 - Go Preset-[194]: Sets all Privacy Mask Display to ON

Preset

Function: Max 127 positions can be stored as Preset position. The Preset number can be assigned from 1 to 128, but 95 is reserved for starting OSD menu. Camera characteristics (White Balance, Auto Exposure) can be set up independently for each preset. Label should be blank and "Camera Adjust" should be set to "GLOBAL" as default. All characteristics can be set up in OSD menu. Set Preset: <Set Preset-[1-128]
-Run Preset: <Go Preset-[1-128]
-Delete Preset: To delete Preset, use OSD menu.

Swing

Function: By using swing function, you can make camera to move between 2 preset positions repeatedly. When swing function runs, camera moves from the 1st preset point to the 2nd preset point in CW (Clockwise) direction. Then camera moves from the 2nd preset point to the 1st preset point in CCW (Counter clockwise) direction.



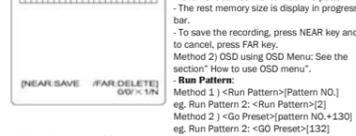
- In case that the preset assigned as the 1st point is same as the preset assigned as the 2nd point, camera turns on its axis by 360° in CW (Clockwise) direction and then it turns on its axis by 360° in CCW (Counter-clockwise) direction. Speed can be set up from 1°/sec to 180°/sec.
Set Swing: To set Swing, use OSD menu
Run Swing: Method 1) <Run Pattern-[Swing NO.]+10
eg. Run Swing 3: <Run Pattern-[2]
Method 2) <Go Preset-[Swing NO.]-140
eg. Run Swing 3: <Go Preset-[143]

Delete Swing:

To delete Swing, use OSD menu.

Pattern

Function: Pattern Function is a camera memorizes the path (mostly curve path) by joystick of controller for assigned time and retrieve the path exactly as it memorized. 4 Patterns are available and maximum 1200 communication commands can be stored in a pattern.
-Set Pattern: Pattern can be created by one of following two methods. Method 1) <Set Pattern> [Pattern NO.]
-Pattern editing screen is displayed as below.



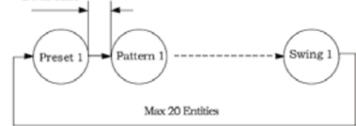
- Movement by joystick and preset movement can be memorized in a pattern. - The rest memory size is display in progress bar.
- To save the recording, press NEAR key and to cancel, press FAR key.
Method 2) OSD using OSD Menu: See the section "How to use OSD menu".
-Run Pattern: Method 1) <Run Pattern>[Pattern NO.]
eg. Run Pattern 2: <Run Pattern-[2]
Method 2) <Go Preset>[pattern NO.]+130
eg. Run Pattern 2: <Go Preset-[132]

Delete Pattern:

Use OSD menu to delete a Pattern

Group

Function: The group function allows running sequence of Presets, Pattern and/or Swing Max. 8 group can be stored. Each group can have Max. 20 action entities which can be preset, pattern or swing preset speed can be set up and the repeat number of pattern & swing can be up in group setup. Dwell time between entities can be set up also.



-Set Group: Use OSD Menu to create a Group
Run Group: Method 1) <Run pattern>[Group NO.]+20
eg. Run Group 7: <Run Pattern>[27]
Method 2) <Go Preset> [Group NO.]+150
eg. Run Group 7: <Go Preset>[157]

Delete Group:

Use OSD Menu to delete a Group

Power Up Action:

This function enables to resume the last action executed before power down. Most of actions such as Preset, Pattern, Swing and Group are available for this function but joy actions are not available to resume.

Auto Flip:

In case that tilt angle arrives at the top of tilt orbit (90°), Zoom module camera keep moving to opposite tilt direction (180°) to keep tracing targets. As soon as zoom module camera passes through the top of tilt direction (90°), images should be reversed automatically and appears in screen. If this function is set to OFF, tilt movement range is 0°-95°.

Parking Action:

This function enables to locate the camera to specific position automatically if operator doesn't operate the controller for a while. The Park time can be defined as an interval from 1 minute to 4 hours.

Alarm Input:

4 Alarm Inputs are used. If an external sensor is activated, camera can be set to move to corresponding preset position. It is noted that the latest alarm input is effective if multiple sensors are activated.

Global/Local: WB (White Balance) and AE (Auto Exposure)

Global/Local: WB (White Balance) and AE (Auto Exposure) can be set up independently for each preset. There are 2 modes, "Global" mode & "Local" mode. The Global mode means that WB or AE can be set up totally and simultaneously for all presets in "ZOOM CAMERA SETUP" menu. The Local mode means that WB or AE can be set up independently or separately for each preset in each preset setup menu. Each Local WB/AE value should activate correspondingly when camera arrives at each preset location.

Semauto Focus:

This mode exchanges focus mode automatically between manual focus mode and auto focus mode by operation. Manual Focus mode activates in preset operation and Auto Focus mode activates during jog operation with manual mode at presets. Focus data is memorized in each preset in advance and camera calls focus data in correspondence with presets as soon as camera arrives at preset. It should shorten time to get focuses focus mode change to Auto Focus mode automatically when jog operation starts.

OSD Display of Main Screen



P/T/Z Information: Current Pan/Tilt angle in degree, zoom magnification and a compass direction.
-Camera ID: Current Camera ID (Address)
-Action Title: Following are possible Action - Titles and their meaning
"SET PRESET XXX" When Preset xxx is stored
"PRESET XXX" When camera reach to Preset xxx
"PATTERN X" When Pattern x is in action
"SWING/PRESET XXX" When Swing x is in action
"UNDEFINED" When undefined function is called to run
-Preset Label: The Label stored for specific preset.
-Alarm Input: This information shows current state of Alarm Input. If an input point is ON state it will show a number corresponding to that point if an input points OFF state, "-" will be displayed. Eg. point 2&3 of inputs are ON, OSD will show as below.

Main Menu

-Image Flip: Shows that images are currently reversed by nip flip.
-General Rules of Key Operation for Menu
-The menu items surrounded with "-" always has sub menu.
-For all menu level, press NEAR key, to go into sub menu.
-To go to up-one-level menu, press FAR key.
-To move from item to item in the menu, use joystick in the Up-Down or Left/Right
-To change a value of an item, use Up/Down of the joystick in the controller.
-Press NEAR key to save values and Press FAR key to cancel Values.
-Main Menu



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: [1 minute - 4 hour]
The time is displayed with "hh:mm:ss" format and you can change this by 1 min unit.
-Park Action: [HOME/PRESET/PATTERN/SWING/GROUP]
HOME: Camera moves to home position if there is no PTZ command during assigned "Wait Time".

Display Setup

This system defines Enable/Disable of OSD display on main screen, if an item is set to be AUTO, the item is displayed only when the value of it is changed.

Camera ID: [ON/OFF]
-PTZ Information: [ON/OFF/AUTO]
-Action Title: [ON/OFF/AUTO]
-Preset Label: [ON/OFF/AUTO]
-Alarm Input: [ON/OFF/AUTO]

Compass Direction Setup
Set North to assign compass direction as criteria, Move camera and press NEAR button to save.

Privacy Zone Mask Setup
Select area in image to mask
-Mask NO [1-4]
Select Mask number. If the selected mask has already data, camera moves as it was set. Otherwise, "UNDEFINED" will be displayed under "Mask NO."
-Display [ON/OFF]
Sets if camera makes mask shows or not on images.
-Clear Mask [CANCEL/OK]
Deletes data in the selected mask NO. Privacy Zone Area Setup.

Privacy Zone Size Adjustment
-Adjust mask size, Use joystick or arrow buttons to adjust mask size.
-Use LEFT or (RIGHT) Adjusts mask width, Use (UP) or (DOWN) Adjusts mask height.

Camera Setup
Setup the general functions of zoom camera module
-ZOOM CAMERA SETUP
Sets camera focus mode.
-FOCUS MODE [SEMI/AUTO]
SEMI/AUTO Mode
This mode exchanges focus mode automatically between manual focus mode and Auto Focus mode manual focus mode activates in preset operation and auto focus mode activates when jog operation starts. With manual mode at presets, focus data is memorized in each preset in advance and camera calls focus data in correspondence with presets as soon as camera arrives at a preset

Digital Zoom [ON/OFF]
Sets digital zoom function to ON/OFF, if this is set to OFF, optical zoom function runs but zoom function stops at the end of optical zoom magnification.
Line Lock [ON/OFF]
If Line Lock Sync is ON, video signal is synchronized with AC power, Video can be fluctuated after setting is changed.

White Balance Setup
WB SETUP - GLOBAL
-WB MODE [AUTO/MANUAL]
In manual mode, Red and blue level can be set up manually.
-Red Adjust: [10-60]
-Blue Adjust: [10-60]

Auto Exposure Setup
AE SETUP - GLOBAL
-BACKLIGHT OFF
-DAY/NIGHT 25
-IRIS SHUTTER 25
-AGC NORMAL
-S/NR AUTO
-S/NSP AUTO
-BACK EXIT

Backlight [ON/OFF] Sets Backlight Compensation
-Day/Night: [AUTO 1/AUTO 2 DAY/NIGHT]
AUTO 1 exchanges Day/Night mode faster than AUTO 2.
-Brightness: [0-100]
Adjusts brightness of images. Iris, Shutter Speed and SNR are adjusted automatically in correspondence with this value
-IRIS: [AUTO/MANUAL 0-500]
If Iris is set to Auto, Iris should have highest priority in adjusting AE and shutter speed will be fixed.
If Iris is set to manual, Iris should be fixed and Iris has lower priority in adjusting AE in comparison with others.
-Shutter Speed: [ESC/Fischer/Manual (x128-1/120000 sec)]
If Iris is set to manual and shutter speed is set to ESC, Shutter speed should have highest priority, if shutter speed is set to a Flicker, shutter speed should be set to 1/100 necessary for NTSC and 1/120 for PAL.
-AGC: [OFF/NORMAL/HIGH]
Enhances image brightness automatically in case that luminance level of image signal is too low.
-S/NR [OFF/LOW/MIDDLE/HIGH]
Enhances images by deducting noises when gain level of images is too high.
-S/NS - LP: [AUTO (2.128)/OFF 1]
Activates slower shutter function when luminance of image (signal) is too dark. It is possible to set up the maximum number of frames piled up one on another by slow shutter function.

Motion Setup
Setup the general functions of Pan/Tilt motions.
-Motion Lock: [ON/OFF]
If motion lock is set to ON, it is impossible to set up and delete preset, Swing, Pattern and group. It is possible only to run those functions. To set up and delete those functions, enter into OSD menu.
-Power Up Action: [ON/OFF]
Refer to "Other Functions" section.
-Auto Flip: [ON/OFF]
Refer to "Other Functions" section.
-Jog Max Speed: [1°/sec - 360°/sec]
Sets maximum jog speed. Jog speed is inversely proportional to zoom magnification. As zoom magnification goes down, pany/tilt speed goes down.
-Jog Direction: [INVERSE/NORMAL]
If you set this to "Inverse", the view in the screen is moving same direction with jog tilting. If "Normal" is selected, the view in the screen is moving reverse.

Edit Pattern
EDIT PATTERN 1
MOVE TO TARGET POSITION [NEAR:START /FAR:CANCEL]

Group Setup
GROUP SETUP
-GROUP NO. [1-8]
-CLIP PATTERN: UNDEFINED
-EDIT GROUP

Alarm Input Setup
ALARM INPUT SETUP
-ALARM1 TYPE N OPEN
-ALARM2 TYPE N OPEN
-ALARM3 TYPE N OPEN
-ALARM4 TYPE N OPEN
-ALARM1 ACT NOT USED
-ALARM2 ACT NOT USED
-ALARM3 ACT NOT USED
-ALARM4 ACT NOT USED
-BACK EXIT

Display Setup
-SYSTEM INFORMATION: Display system information and configuration.
-Display Setup: Enable/Disable of OSD display on main screen.
-Dome Camera Setup: Configure various functions of this camera.
-System Initialize: Initialize system configuration and sets all data to factory default configuration.

Alarm Input Setup
Match the Alarm sensor input to one of preset positions. If an external sensor is activated, camera will move to corresponding preset position when this item is predefined.

Alarm Type: [Normal Open/Normal CLOSE] Sets sensor input type.
-Alarm Action: [NOT USED/PRESET 1-128] Assign counteraction Preset position to each Alarm input.

Preset Setup
PRESET SETUP
-PRESET NO. 1
-CLIP PRESET: CANCEL
-EDIT SCENE: UNDEFINED
-EDIT LABEL: LABEL123
-CAM ADJUST: GLOBAL
-BACK EXIT

Edit Preset Label
EDIT LABEL - PRESET 1
-EDIT LABEL: UNDEFINED
-CAM ADJUST: GLOBAL/LOCAL
WB (White Balance) and AE (Auto Exposure) can be set up independently for each preset. There are 2 modes, "Global" mode & "Local" mode. The Global mode means that WB or AE can be set up totally and simultaneously for all presets in "ZOOM CAMERA SETUP" menu. The Local mode means that WB or AE can be set up independently or separately for each preset in each preset setup menu. Each local WB/AE value should activate correspondingly when camera arrives at each preset location. During jog operation, Global WB/AE value should be applied. All Local WB/AE value should not change although Global WB/AE value changes. If "Local" is selected, Menu to set WB/AE shows on Monitor.

Edit Preset Menu
EDIT SCENE - PRESET 1
MOVE TO TARGET POSITION [NEAR:SAVE /FAR:CANCEL]

Swing Setup
SWING SETUP
-1ST POS: NOT USED
-2ND POS: NOT USED
-SWING SPEED 20°/SEC
-CLEAR SWING: CANCEL
-BACK EXIT

Swing Number [1-8]
Selects swing number to edit. If a selected swing is not defined, "NOT USED" is displayed in 1st position and 2nd position.
-1st Position [PRESET 1 - 128]
2nd Position: Set up the 2 position for swing function if a selected preset is not defined, "UNDEFINED" will be displayed as shown below.

Pattern Setup
PATTERN SETUP
-PATTERN NO. UNDEFINED
-CLIP PATTERN: CANCEL
-EDIT PATTERN:
-BACK EXIT

Edit Pattern
EDIT PATTERN 1
MOVE TO TARGET POSITION [NEAR:SAVE /FAR:DELETE] 010°/1°N

Group Setup
GROUP SETUP
-GROUP NO. [1-8] Selects Group number to edit. If a selected Group number is not defined, "UNDEFINED" will be displayed under selected Group number.
-Clear Group: [CANCEL/OK] Deletes data in current Group.
-Edit Group: Starts editing Group.

Clear All Data: Deletes all configuration data such as display, camera, motion setup and so on.
-Clear Display Set: Initializes Display Configuration
-Clear Edit Data: Deletes Preset Data, Swing Data, Pattern Data and Group Data
-Reboot Camera: Reboots Zoom Camera module
-Reboot System: Reboots Speed Dome Camera

System Initialize
SYSTEM INITIAL SET
-CLEAR ALL DATA: NO
-CLEAR DISPLAY SET: NO
-CLEAR EDIT DATA: NO
-REBOOT CAMERA: NO
-REBOOT SYSTEM: NO
-SAVE: CANCEL

Clear All Data: Deletes all configuration data such as display, camera, motion setup and so on.
-Clear Display Set: Initializes Display Configuration
-Clear Edit Data: Deletes Preset Data, Swing Data, Pattern Data and Group Data
-Reboot Camera: Reboots Zoom Camera module
-Reboot System: Reboots Speed Dome Camera

Clear All Data: Deletes all configuration data such as display, camera, motion setup and so on.
-Clear Display Set: Initializes Display Configuration
-Clear Edit Data: Deletes Preset Data, Swing Data, Pattern Data and Group Data
-Reboot Camera: Reboots Zoom Camera module
-Reboot System: Reboots Speed Dome Camera

Edit Group
EDIT GROUP 1
-NO ACTION ## DWELL OPT
-1 NONE
-2 NONE
-3 NONE
-4 NONE
-5 NONE
-SAVE [NEAR:EDIT] [FAR:EDIT/END]

Edit Group
EDIT GROUP 1
-NO ACTION ## DWELL OPT
-1 NONE
-2 NONE
-3 NONE
-4 NONE
-5 NONE
-SAVE [NEAR:EDIT/END] [FAR:EDIT/END]

Edit Group
EDIT GROUP 1
-NO ACTION ## DWELL OPT
-1 NONE
-2 NONE
-3 NONE
-4 NONE
-5 NONE
-SAVE [NEAR:EDIT/END] [FAR:EDIT/END]

Edit Group
EDIT GROUP 1
-NO ACTION ## DWELL OPT
-1 NONE
-2 NONE
-3 NONE
-4 NONE
-5 NONE
-SAVE [NEAR:EDIT/END] [FAR:EDIT/END]

Display Configuration
Camera ID ON
PTZ Information AUTO
Action Title AUTO
Preset Label AUTO
Alarm Input AUTO
North Direction Pan 0°
Privacy Zone Undefined

Camera Configuration
Focus Mode SemiAuto
Digital Zoom ON
Line Lock OFF
White Balance AUTO
Backlight OFF
Day&Night AUTO1
Brightness 25
Iris AUTO
Shutter ESC
AGC NORMAL
SNRR MIDDLE
SENS-UP AUTO (4 Frame)