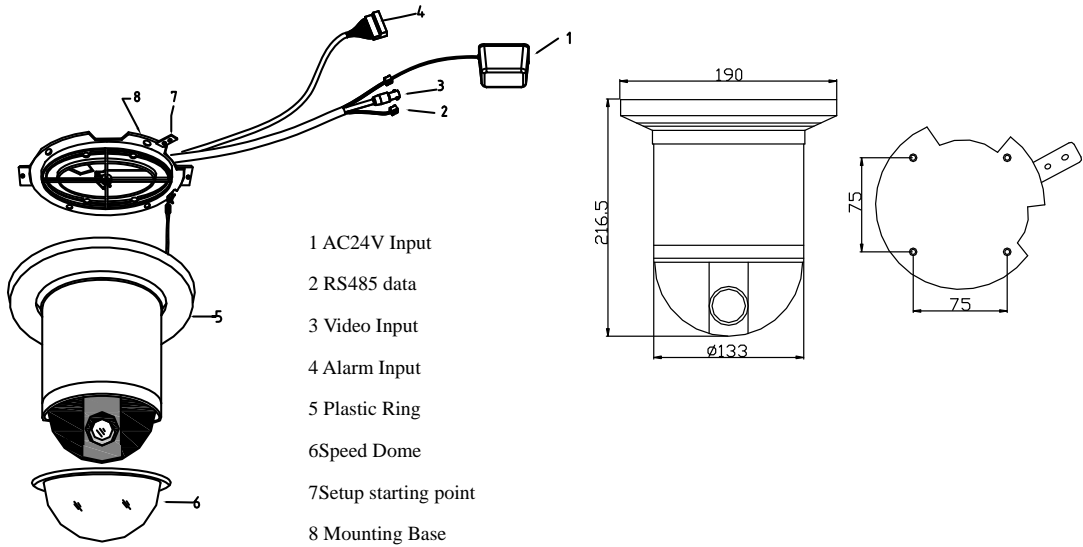


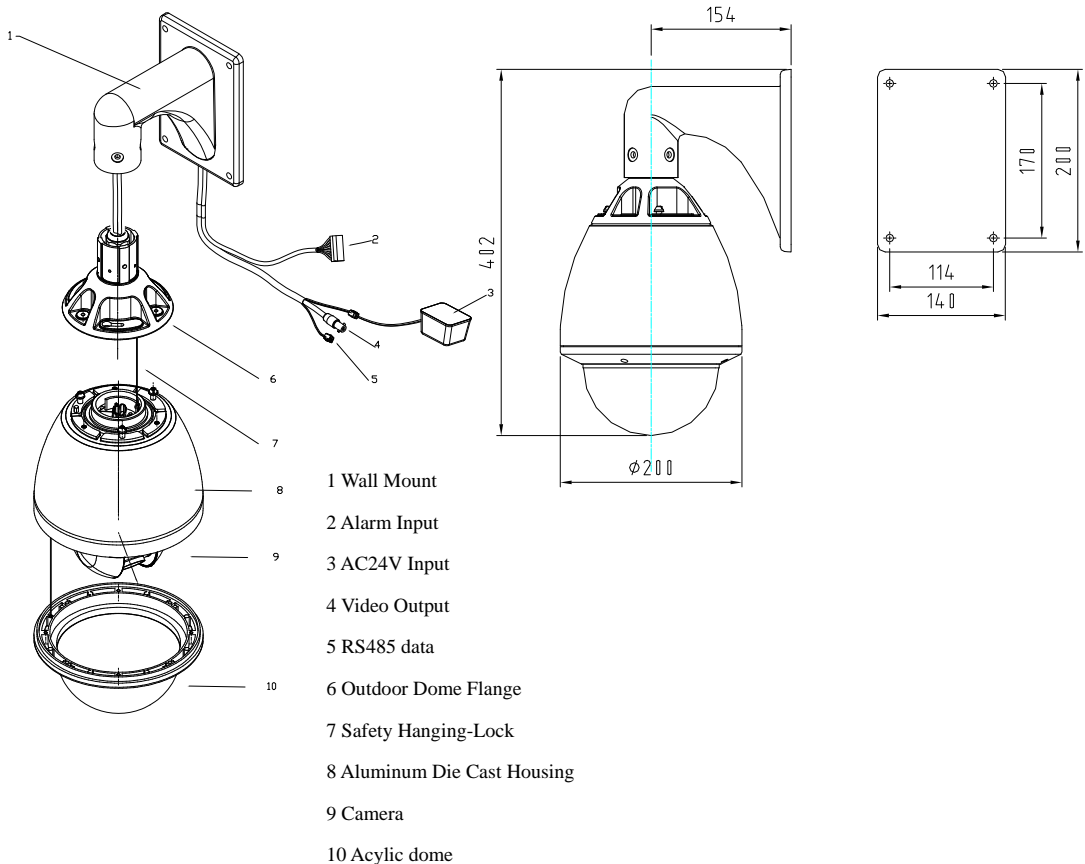
DomePTZ-dn5 www.allthings.com.au

IMPORTANT ignore references to "Camera" functions - see DomePTZ-dn Manual for "Camera" functions !



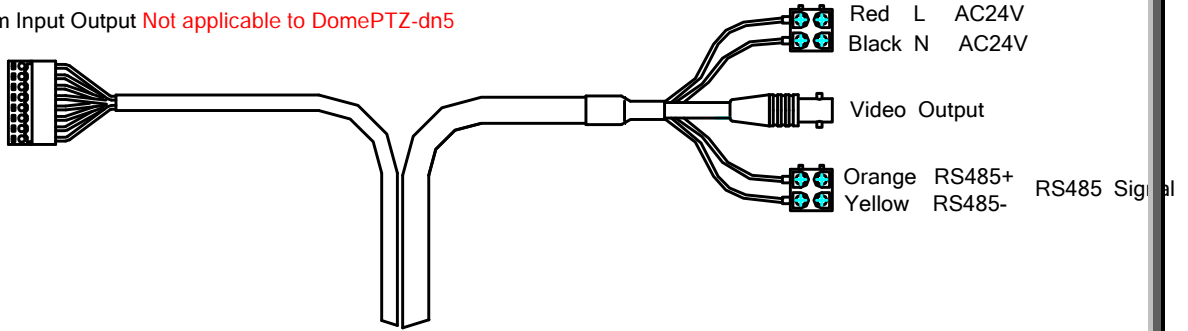
- 1 AC24V Input
- 2 RS485 data
- 3 Video Input
- 4 Alarm Input
- 5 Plastic Ring
- 6 Speed Dome
- 7 Setup starting point
- 8 Mounting Base

DomePTZ-dn5 * Indoor/Outdoor Speed Dome Camera, dimensions:



- 1 Wall Mount
- 2 Alarm Input
- 3 AC24V Input
- 4 Video Output
- 5 RS485 data
- 6 Outdoor Dome Flange
- 7 Safety Hanging-Lock
- 8 Aluminum Die Cast Housing
- 9 Camera
- 10 Acylic dome

Alarm Input Output **Not applicable to DomePTZ-dn5**



Alarm Input

Red	Alarm 1
Orange	Alarm 2
Yellow	Alarm 3
Green	Alarm 4
Black	Alarm COM

Alarm Output

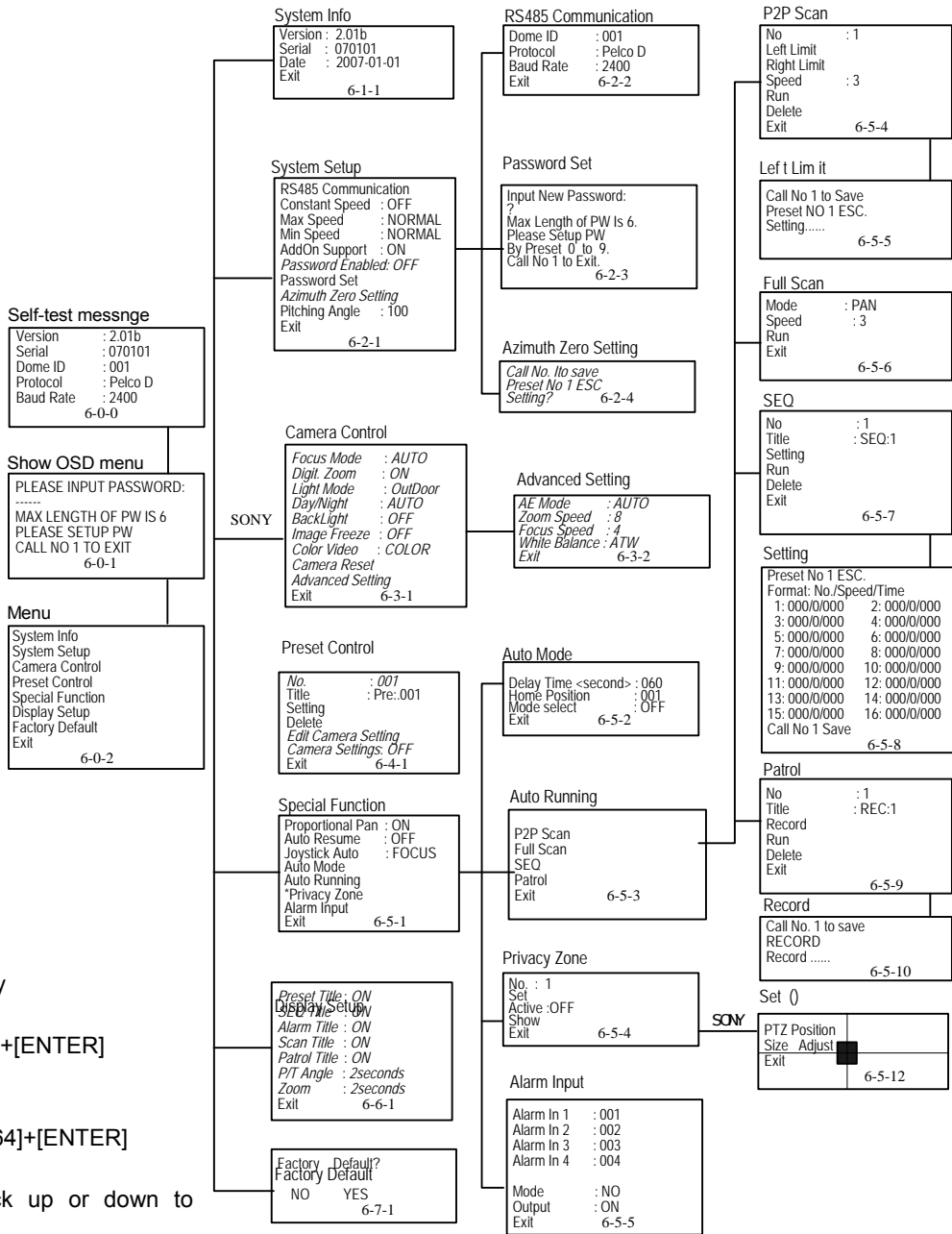
Pink	NC	Normal Close
White	COM	Normal COM
Blue	NO	Normal Open

Note

When powered up, the dome camera will perform a self-check (including one panning, tilting, zooming and focusing operation.)

IMPORTANT

Ignore references to "Camera" functions - see DomePTZ-dn Manual for "Camera" functions !



Note:
 Menu Display
 Press [CALL]+[64]+[ENTER]
 Menu Exit:
 Press [PRESET]+[64]+[ENTER]

Move joystick up or down to select

Ignore references to "Camera" functions - see DomePTZ-dn Manual for "Camera" functions !

After powered up, the speed dome camera will conduct a self-check. The monitor will display as following: (fig. 6-0-0)

Version	:	2.01b	
Serial	:	070101	
Dome ID	:	001	
Protocol	:	Pelco D	
BaudRate	:	2400	6-0-0

Display system version number;
Display system serial number;
Display Dome ID code;
Display Dome protocol code;
Display baudrate;

The information will be disappeared after the self-check is finished.

Enter main menu: [CALL]+[64]+[ENTER], the monitor should display as:

PLEASE INPUT PASSWORD: ▶ ----- MAXLENGHT OF PW IS 6 PLESE SETUP PW BY PRESET 0 TO 9 CALL NO. 1 TO EXIT	6-0-1
---	-------

Description: If the password is set as: (Password Enable: ON), the monitor will display as (fig. 6-0-1).

Otherwise the monitor will display as (fig. 6-0-2). In (fig. 6-0-1), position the cursor to input password. Max length of PW is 6. Please setup PW by preset 0 to 9.

- ※ It provide two levels of passwords to protect menu, first-level password "000000" can not change submenu of the system setting. The two levels of passwords please see last page of this manual. Please clip it out along the broken line and keep it for safe!
- ※ The camera has multilevel menus. If you need to exit from the submenu, you can press [preset]+[64]+[enter]
- ※ No operation in 5 minutes after you enter the main menu, the system will auto exit.

Step: Move the joystick and position the cursor to the password input. (PW may be the any number from 0 to 9). Input password by setting preset position (NO. 0-9 preset positions in password input stand for numbers from 0 to 9) For instance: if you want to input "456789", you can move joystick right and make the first "*" of input area coruscate, then set NO. 4 preset position, which stands for 4. Move joystick right and input other passwords; after finishing the input, move joystick right to enter the menu; call NO. 1 preset position will exit the menu.

Note ①: It doesn't influence preset positions setting until entering the menu; "0" can be leaped over and move joystick to next input position while some systems can not set NO. 0 preset position.

②: Move joystick to right continuously and system will recognize original first level password as default value to enter the main menu; the monitor will display as following: (fig. 6-0-2):

③: In the menu, only options of System Setup limit the operation of first level passwords.

System Info
System Setup
Camera Control
Preset Control
Special Function
Display Setup
Factory Default
▶ Exit
6-0-2

- System Information→(fig. 6-1-1)
- System Setup→(fig. 6-2-1)
- Camera Control→(fig. 6-3-1)
- Preset Control→(fig. 6-4-1)
- Special Function→(fig. 6-5-1)
- Display Setup→(fig. 6-6-1)
- Factory Default (cautious operation)→(fig. 6-6-1)

◆ **System Information**

Move the joystick up or down, position the cursor to system info and move joystick right to enter the submenu:

Version : 2.01b
Serial : 070101
Date : 2007-01-01
▶ Exit 6-1-1

- Display system version number
- Display system serial number
- Display date

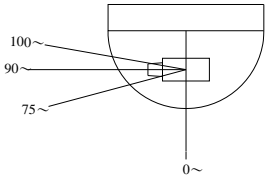
◆ **System Setup**

Move joystick up or down, position the cursor to system setup, and move joystick right to enter the submenu:

Note: It need high-level password to enter into the submenu and change the setting.

Rs485 Communication
Constant Speed : OFF
Max Speed : NORMAL
Min Speed : NORMAL
AddOn Support : ON
Password Enabled : ON
Password Set
Azimuth Zero Setting
Pitching Angle : 100
▶ Exit 6-2-1

- Enter the communication submenu (fig. 6-2-2)
- OFF/1/2/3/4/5/6/7/8
- NORMAL/HIGH
- NORMAL/LOW
- ON/OFF“realize auxiliary functions by setting preset positions”;
- Set menu password. ON/OFF.
- Alter password (fig. 6-2-3)
- Set azimuth zero (fig. 6-2-4); Cursor turns to “Pitching Angle’ after setup, Set pitching angle (It can be set from 75° to 100°).



- 1) Position the cursor to RS485 Communication. Move the joystick right to enter a submenu. It is shown as: (fig. 6-2-2):

Dome ID : 001	Display dome ID code ;
Protocol : Pelco D	Display protocol code;
BaudRate : 2400	Display baudrate;
▶ Exit 6-2-2	

- 2) Move the joystick up or down and position the cursor to Constant Speed, move joystick right to enter input area. Move joystick up or down to select and move right to confirm. Move joystick left to exit.
- 3) Same setting to Max Speed、Min Speed、AddOn Support、Password Enabled、Pitching Angle according to the description of point 2.
 Note: Password Enabled can be set “ON” or “OFF”. When it is set “OFF”, it does not need to input password to enter menu and can enter with high-level password; when it is set “ON”, it need input password to enter menu. “OFF” is factory default.
- 4) Move joystick up or down and position the cursor to Password Set, move joystick right to enter the submenu (password alter menu). The monitor will display as following: (fig. 6-2-3):

INPUT NEW PASSWORD :	
▶ -----	
MAX LENGTH OF PW IS 6.	
PLEASE SETUP PW	
BY PRESET 0 TO 9.	
CALL No.1 TO EXIT. 6-2-3	

INPUT NEW PASSWORD :	
□□□□□□	
□□□□□□	
PW HAS BEEN MODIFIED	
CALL No.1 TO EXIT. 6-2-3a	

Description: In fig. 6-2-3, system information requests to input new password. The max length of password is 6. Password may be 0-9.

New password altered with high level password keeps the right of high level password; password could be altered with first level password, but the new password only keep the right of common password

Setting Steps:

- ① Input new password in the block where the cursor flashes, (detailed input mode sees the input mode of “login password” please) , and the system will require to input new password again to confirm; if the two inputs are same , the system will display successful information of new password modification as fig. 6-2-3a, otherwise it will require to input new password over again.
 - ② Call NO. 1preset position to return previous menu;
- 5) Move joystick up or down and position the cursor to Azimuth Zero Setting , move right to enter the submenu. The monitor should display as (fig. 6-2-4):

Call No 1 to Save	
Preset No 1 ESC	
Setting..... 6-2-4	

The monitor will display as (fig. 6-2-4); adjust pan unit of camera and aim at datum mark of horizontal Azimuth by controlling keyboard; call No. 1 preset position to confirm and exit, other orders are unavailable.

Azimuth Zero Setting Description:

When advanced code enters the menu of Azimuth Zero Setting, the operation is set as origin of azimuth angle of pan unit, which will be set by user when installation and commissioning;

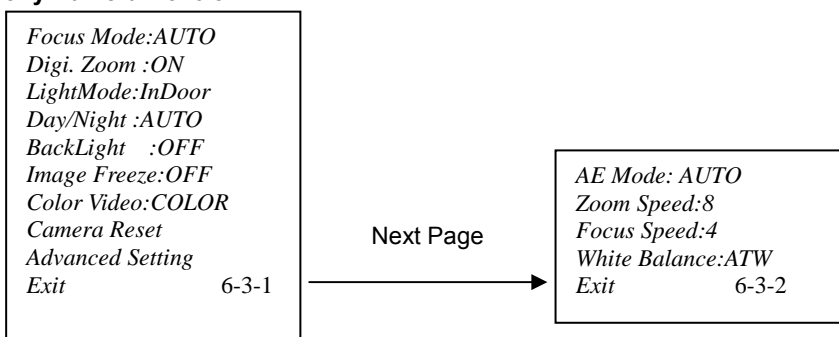
When elementary code enters the menu of Azimuth Zero Setting, the operation drives pan unit to return current origin, the magnification of camera maintains constant; azimuth angle will display as the position as datum mark and with degree as unit.

For example: The character of "200/-40" shown on the lower left of screen presents the horizontal azimuth angle of pan unit is 200 degree away from origin, and vertical angle is -40 degree away from the origin; display control shall be set in the submenu of Display Setup.

◆ Camera Control

Position the cursor to Camera Control. Move the joystick right to enter a submenu. It is shown as:

Sony Camera Control:



Ignore references to "Camera" functions - see DomePTZ-dn Manual for "Camera" functions !

- ◇ **Focus Mode:** set focus mode, AUTO (default), MANU/Trigger (optional). When pan unit is operated in AUTO mode or MANU mode, the focus will be controlled by one option of "Special Function", Joystick Auto: FOCUS / IRIS / NONE / BOTH.
- ◇ **Digi.zoom:** set digital zoom, ON (default), OFF (optional)
- ◇ **LightMode:** OutDoor (default), InDoor (optional)
- ◇ **Day/Night:** set day/night function, AUTO (default), MANU/ON/OFF (optional). When it is set "AUTO", AE Mode must be set "AUTO". If it is changed to "MANU", "ON" or "OFF", AE Mode can not recover.
- ◇ **BackLight:** set backlight, OFF (default), ON (optional).
- ◇ **Image Freeze:** set image freeze, OFF (default), ON (optional).
- ◇ **Color Video:** set color video, COLOR (default), NEG.ART and B/W (optional).
- ◇ **Camera Reset:** reset to factory default
- ◇ **Advanced Setting:** enter the next page of the menu
- ◇ **Exit:** exit the menu

Description of next page menu:

- ◇ **AE Mode:** AUTO (default), MANU/Bringt/IRIS/Shutter (optional).

When AE Mode is set “MANU”, these adjustable parameters will be supplied: Shutter Speed、 IRIS Adjust、 AGC Adjust. Range of choice is shown below.

When AE Mode is set ‘Bringt’, these adjustable parameters will be supplied: BringtNess, brightness default is “09”. Range of choice is shown below.

When AE Mode is set “IRIS”, these adjustable parameters will be supplied: IRIS Adjust, F5.6 (default), Range of choice is shown below.

When AE Mode is set “Shutter”, these adjustable parameters will be supplied: Shutter Speed, 50 is default. Range of choice is shown below.

Parameter Item	Adjust Range of Parameter
Shutter peed	3/6/12/25/50*/75/100/120/150/215/300/425/600/1000/1250/1750/2500/3500/6000/10000。
IRIS Adjs	MANU/F1.4/F1.6/F2.0/F2.4/F2.8/F3.4/F4.0/F4.8/F5.6*/F6.8/F8.0/F9.6/F11/F14/F16/F19/F22/CLOSE。
AGC Adjust	-3 dB/0*/2/4/6/8/10/12/14/16/18/20/22/24/26/28 。
Bringtness	0-9*-31

Note: The number marked with“*”are defaults.

When AE Mode is not set “AUTO’, Day/Night only can be set “MENU/ON/OFF”.

- ◇ **Zoom Speed:** 8 (default), range:1-8。
- ◇ **Focus Speed:** 4(default), range: 1-8。
- ◇ **White Balance:** ATW(default), AUTO / MANU / Indoor / Outdoor / Trigger / OnePush (optional).

When MANU is set, these adjustable parameters will be supplied:

R Gain: 209 (default), 0-255 (optional);

B Gain: 145 (default), 0-255 (optional);

Note of Manual Control:

Note 1 When IRIS Adjust is set Manu, iris can be set by the key of “OPEN” and “CLOSE” on the keyboard. Adjustment result fails to be memorized.

Note 2 When Day/Night is set Manu, you can keep Minimum illumination on or Minimum illumination off by setting auxiliary functions with keyboard. The result of manual adjustment is not memorized; if you need to memorize assigned mode, you can set “ON” or “OFF” in the menu directly.

Note 3 When Focus Mode is set Manu, zoom can be set by the keys of NEAR and FAR on the keyboard.

◆ Preset Control

In fig. 6-0-2, move joystick up or down and position the cursor to Preset Control; then move joystick right to enter the submenu: (fig. 6-4-1):

No.	: 001
Title	: Pre:.001
Setting	
Delete	
Edit Camera Setting	
Camera Settings	: OFF
▶ Exit	6-4-1

Description: the menu is used to set preset positions (fig. 6-4-1):

- ◇ **No.:** set current preset position or call the preset position that has been set; preset positions are capable of going to 001-128;
- ◇ **Title:** set preset position title; Pre:.nnn title is default; max length of characters is 8;
- ◇ **Setting:** set preset position;
- ◇ **Delete:** delete preset position ;
- ◇ **Edit Camera Setting:** set camera information of current preset position;
- ◇ **Camera Settings:** set camera function of current preset position, OFF is default, ON is optional; Users can adjust and set the image function of every preset position to achieve best image effects according to the different situation of each preset position.

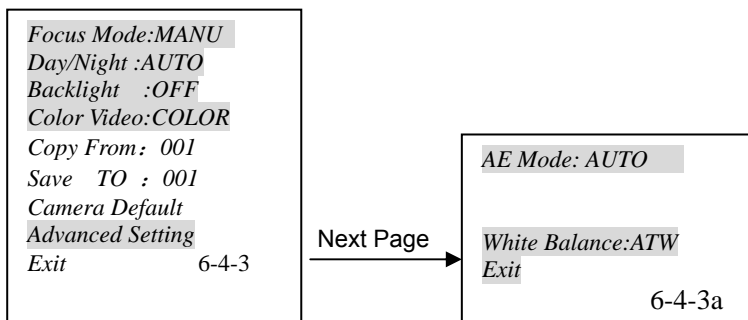
Setting Steps:

- 1) In fig. 6-4-1, position the cursor to No. and move joystick right to enter the input area; move joystick up or down to select input value and move joystick to confirm; range of input value is 1-128 ;
- 2) Title is use to set and call title information of the current preset position; max length of characters is 8; it can choose 0-9, 26 English characters, "-"and blank space, and the blank space will display as "."; the arrangement order of title characters is as below: 0-9, a~z, A~Z, "-", blank space: all 64 characters appear circularly.
- 3) Move joystick and position the cursor to Setting; move joystick right to enter setting area, the monitor will display the setting state (fig. 6-4-2); adjust the camera by controlling the keyboard to aim at the position you want to preset and set preset position; call preset position 1 to save position information and exit; set preset position 1 will not be saved;

Call No. 1 To Save	
Preset No. 1 ESC.	
Setting.....	6-4-2

- 4) Move joystick up or down and position the cursor to Edit Camera Setting. move joystick right to enter setting area. The monitor should display setting state.

Ignore references to "Camera" functions - see DomePTZ-dn Manual for "Camera" functions !



Description:

- ◇ **Copy From:** copy “No. nnn” preset position data, range: 1-128, CAM; CAM is the parameter set for the camera.
- ◇ **Save To:** Camera data will be saved to “ nnn” preset position.
- ◇ **Camera Default :** Reset of factory default

Note: The functions shadowed in the menu are the same with aforementioned function of same type camera, and unnecessary to be explained here.

- 5) Move joystick up or down and position the cursor to **Camera Settings**, move joystick right to enter setting area and select ON or OFF of the camera function in this preset position.
- 6) Move joystick up or down and position the cursor to Exit after the setting is finished. Move joystick right to exit.

◆ Special Function

In fig. 6-0-2 menu, move joystick up or down and position the cursor to Special Function, then move joystick right to enter the menu below: (fig. 6-5-1):

Proportional Pan	: ON
Auto Resume	: OFF
Joystick Auto	: FOCUS
Auto Mode	
Auto Running	
*Privacy Zone	
Alarm Input	
▶ Exit	6-5-1

- Go to submenu→(fig. 6-5-2)
- Go to submenu→(fig. 6-5-3)
- Go to submenu→(fig. 6-5-11)
- Go to submenu→(fig. 6-5-13)

Description:

- ◇ **Proportional Pan:** ON (default), OFF (optional);
- ◇ **Auto Resume:** OFF (default), ON (optional), corresponding setting in the Auto Mode menu;
- ◇ **Joystick Auto:** Focus (default), IRIS/BOTH/NONE (optional);

Setting steps are as above; menu description is as below.

1. Auto Mode

In fig. 6-5-1, position the cursor to Auto Mode (implement after setting vacant time) , move joystick right to enter setting area, the monitor will display as: (fig. 6-5-2):

Delay Timer<Second> : 060
Home Position : 001
Mode Select : OFF
▶ Exit 6-5-2

- ◇ **Delay Timer<Second>:** when delay time reach setting value, implement the selected mode (Note: delay timer is 5 second at least while 300 second at most; default value is 60 second); the monitor will display different titles after entering timer setting because of different scan modes
- ◇ **Home Position:** any preset position is available; auto home position function will be implemented when effective preset position has been selected and set, as well as Mode Select is set "HOME";
- ◇ **Mode Select:** OFF (default), no any operation at this time;
(Optional: PTZ: the camera scan by horizontal and vertical directions alternatively
HOME: operate to HOME POSITION
P2P SCAN: to scan between the two positions of the first line of camera
AUTO PAN: operate 360°horizontal scan
AUTO TILT: vertical scan
SEQ: implement first SEQ
PATROL: implement first PATROL)

△ The camera will display the unset information and don't have action when preset position, No. 1 P2P SCAN, No. 1 SEQ or No. 1 PATROL is not set.

2. Auto Running

In fig. 6-5-1, position the cursor to Auto Running, and move joystick right to Auto Running menu (fig. 6-5-3):

P2P Scan
Full Scan
SEQ
Patrol
▶Exit 6-5-3

1) P2P scan function allows the camera move back and forth automatically, at a preset speed between 2 preset positions; move joystick right to enter the submenu. The monitor will display as (fig. 6-5-4):

No	:	1
Left Limit		
Right Limit		
Speed	:	3
Run		
Delete		
▶ Exit		6-5-4

Setting Steps:

- ① Move joystick up or down and position the cursor to No. (scan number; it is used to support multi-line scan; 1-4 are optional) ; move joystick right to enter input area where cursor flashes; move joystick up or down to alter;
- ② In fig. 6-5-4, move joystick up or down and position the cursor to Left Limit (to scan pan unit against the clockwise); move joystick right to enter the submenu; the monitor will display as: (fig. 6-5-5):

Call No.1 To Save
Preset No.1 ESC.
Setting.....6-5-5

Description: Fig. 6-5-5 displays the state of left limit and flashing “Setting.....”promotes left limit is in set state; call No. 1 preset position to confirm and save information, then exit after setting left limit; No. 1 preset setting will not be saved;

- ③ Same setting to Right Limit according to step 2;
- ④ Move joystick up or down and position the cursor to Speed (1 default, 1 min, 8 max); move joystick right to enter input area where cursor flashes; move joystick up or down to alter the value and move right to confirm; move joystick left to exit;
- ⑤ Move joystick up or down and position the cursor to Run; move joystick right to select Run and enter auto scan mode (only action when left limit and right limit have been set, otherwise the camera will not implement scan order);
The operation may be ended by NO.52 preset position and controlling joystick when the system operates the P2P; other orders are unavailable.
- ⑥ Delete means to delete the original setting; Exit means to exit the setting area.

2) In fig. 6-5-3, move joystick up or down and position the cursor to Full Scan; move joystick right to enter the submenu. The monitor will display as: (fig. 6-5-6):

Mode	:	PAN
Speed	:	3
Run		
▶ Exit		6-5-6

Setting Steps:

- ① Move joystick up or down and position the cursor to Mode(Pan (default), Titl (optional); Both(namely is to scan in horizontal and counterclockwise direction with 360°; and to scan up and down, and combined with horizontal and vertical directions.)), and move joystick right to enter input area where cursor flashes; move joystick up or down to alter the value and move right to confirm; move joystick left to exit;
 - ② same setting to Speed (3 default, 1 min, 8 max) according to step 1;
 - ③ Move joystick up or down and position the cursor to Run; move joystick right to select Run and enter auto run mode;
- 3) In fig. 6-5-3, position the cursor to SEQ; move joystick right to enter the submenu. The monitor will display as: (fig. 6-5-7):

No.	:	1
Title	:	SEQ:1
Setting		
Run		
Delete		
▷ Exit		6-5-7

Setting Steps:

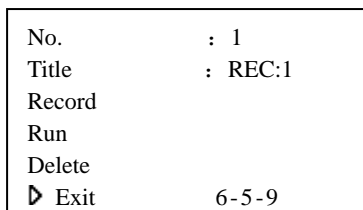
- ① Move joystick up or down and position the cursor to No., move right to enter input area where cursor flashes; move joystick up or down to alter the value (1-4 are available); move joystick right to confirm and move left to exit;
- ② Same setting to Title (SEQ:n title is default) according to step 1;
- ③ Move joystick up or down and position the cursor to Setting; move joystick right to select and enter the MAP that can display 16 positions including No. Speed, Delay Timer; operation method sees step 1. The monitor will display as (如图 6-5-8):
- ④ Move joystick up or down and position the cursor to Run; move joystick right to select Run and enter scan state (only action when track and preset position included are set; otherwise the camera will not implement the patrol order)

Preset	No. 1 ESC.
Format:	No./Speed/Time
1:	000/0/000
2:	000/0/000
3:	000/0/000
4:	000/0/000
5:	000/0/000
6:	000/0/000
7:	000/0/000
8:	000/0/000
9:	000/0/000
10:	000/0/000
11:	000/0/000
12:	000/0/000
13:	000/0/000
14:	000/0/000
15:	000/0/000
16:	000/0/000
Call No.1 To Save	6-5-8

Note: In fig.6-5-8, 'No.' means preset position number; the system will reset automatically when No. is set bigger than biggest preset position number and TIME is set bigger than 255 seconds; SPEED can be set from 1 to 8 (if any option is 0, the preset positions from this one will not be called while operation) .

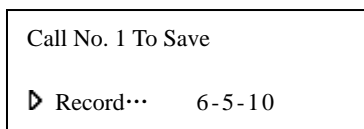
Description: To call No. 1 preset position means to save setting and exit; to set NO. 1 preset position means not to save setting and exit;

4) In fig. 6-5-3, move joystick up or down and position the cursor to Patrol; move joystick right to enter the submenu. The monitor will display as: (fig. 6-5-9):



Setting Steps:

- ① Move joystick up or down and position the cursor to No., move joystick right to enter input area where cursor flashes; move joystick up or down to alter the value (1- 4 are available) ; move joystick right to confirm and move left to exit;
- ② Same setting to Title according to step 1 (REC:n title is default) ;
- ③ Move joystick up or down and position the cursor to Record; move joystick right to enter study function and implement the record order. The monitor will display as: (fig. 6-5-10):

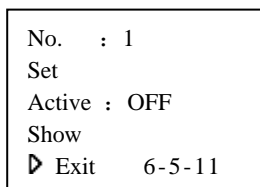


Move joystick to enter Record, and the process of operation will be recorded; call No. 1 preset position to confirm and exit after the action is over; it will be exit automatically when record time exceeds 2 minutes;

- ④ Move joystick up or down and position the cursor to Run; move joystick right to select Run and enter Patrol; (only action when track and preset position included are set ; otherwise the camera will not implement the scan order);

3. Privacy Zone (V2.30 version does not support display)

In fig. 6-5-1, move joystick up or down and position the cursor to Privacy Zone, move joystick right to enter the submenu; (fig. 6-5-11)




Display the privacy zone number; display 1, (from 1 to 8);
 Set the masking area; position and size are optional→(fig. 6-5-12)
 Set "ON" or "OFF" of the privacy zone ;
 Show the N masking area;

Setting Steps:

- ① Move joystick up or down and position the cursor to No., move joystick right to enter input area; move joystick up or down to alert the input value (1-8); move joystick right to confirm and move left to exit.
- ② Position the cursor to Set and enter the submenu; the monitor will display as below: (fig. 6-5-12):

SONY Camera Display

PTZ Position	
Size Adjust	
EXI	6-5-12a

Setting Steps:

- A In fig. 6-5-12b, Move joystick up or down and position the cursor to PTZ Position; move joystick right to enter input area where "PTZ Position" flashes; use keyboard to adjust the area where should be covered and make it displayed in the center of the screen; call No. 1 preset position to exit;
- B Move joystick up or down and position the cursor to Screen Position; move joystick right to enter setting area where "Screen Position" flashes; set privacy position by keyboard or joystick and exit;
- C Move joystick up or down and position the cursor to Size Adjust; move joystick right to enter setting area where "Size Adjust" flashes; adjust the size of privacy zone by keyboard and joystick and call No. 1 to exit;
- D The setting will be saved after selecting EXIT to exit, and system will adjust the size of privacy zone according to setting position to ensure full shield of areas that should be covered in any situation;
- ③ Same setting to Active OFF according to step 1 (set privacy zone "ON" or "OFF") ;
- ④ Move joystick up or down and position the cursor to Show; move joystick right to select Show and display the image of privacy zone assigned by privacy number (only action after setting privacy number and privacy zone, otherwise unit span will not implement the order)

Description: Black area in fig. 6-5-12 is privacy zone

In order to make privacy target in privacy zone, the three points below should be followed:

·Magnification of picture lens shall be no more than 2 times.

1 / 9 Shielding target area shall be no bigger than 1/9 of picture.

Size of privacy block shall be bigger than 2.5 times of shielding target area.

4. Alarm Input

In fig. 6-5-1, move joystick up or down and position the cursor to Alarm Input, move right to enter the submenu: (fig. 6-5-13):

Alarm In 1	: 001
Alarm In 2	: 002
Alarm In 3	: 003
Alarm In 4	: 004
Mode	: NO
Output	: ON
EXIT	6-5-13

Note: In fig. 6-5-13, Mode and Output are not available. Normal open is default; alarm output will be produced when alarm signal is received.

Setting Steps:

- ① In fig. 6-5-13, position the cursor to Alarm In 1 and move joystick right to enter input area; move joystick up or down to alter the input value and move joystick right to confirm (range of input value is from 001 to 128). (OFF is to close alarm, NO. 1-128 are preset positions)
- ② Same setting to Alarm In 2, Alarm In 3, Alarm In 4 according to step 1.

◆ Display Setup

In fig. 6-0-2, move joystick up or down and position the cursor to Display Setup, move right to enter the menu: (fig. 6-6-1):

<i>Preset Title</i>	: ON
<i>SEQ Title</i>	: ON
<i>Alarm Title</i>	: ON
<i>Scan Title</i>	: ON
<i>Patrol Title</i>	: ON
<i>P/T Angle</i>	: 2seconds
<i>Zoom</i>	: 2seconds
<i>Exit</i>	6-6-1

Description:

- ◇ **Preset Title:** ON (default), OFF (optional);
- ◇ **SEQ Title:** ON (default), OFF (optional);
- ◇ **Alarm Title:** ON (default), OFF (optional);
- ◇ **Scan Title:** ON (default), OFF (optional);
- ◇ **Patrol Title:** ON (default), OFF (optional);
- ◇ **P/Z Angle:** Constant (default), OFF/2seconds/5seconds (optional);
- ◇ **Zoom:** Constant (default), OFF/2seconds/5seconds (optional).

◆ Factory Default

In fig. 6-0-2, position the cursor to Factory Default, move joystick right to enter submenu: (fig. 6-7-1):

Factory Default?		
No	Yes	6-7-1

Description: In fig. 6-7-1, it will ask that whether factory default should be set or not, and NO is default; if factory default need to be set, move joystick right to select YES and confirm. The system will reset factory default and exit to main menu in 5 second.

When user enters the menu by elementary code, only the function item set by the code can be resumed to factory setting state (except privacy);

When user enters the menu by advanced code, all function items shall be resumed to factory setting state except the code. Please be cautious with the function!

★Password Protection for Menu Options

1. First-level default password: 000000 (the password can not change options of system setting menu)
2. High-level default password: 222222

5.2 Auxiliary Function List

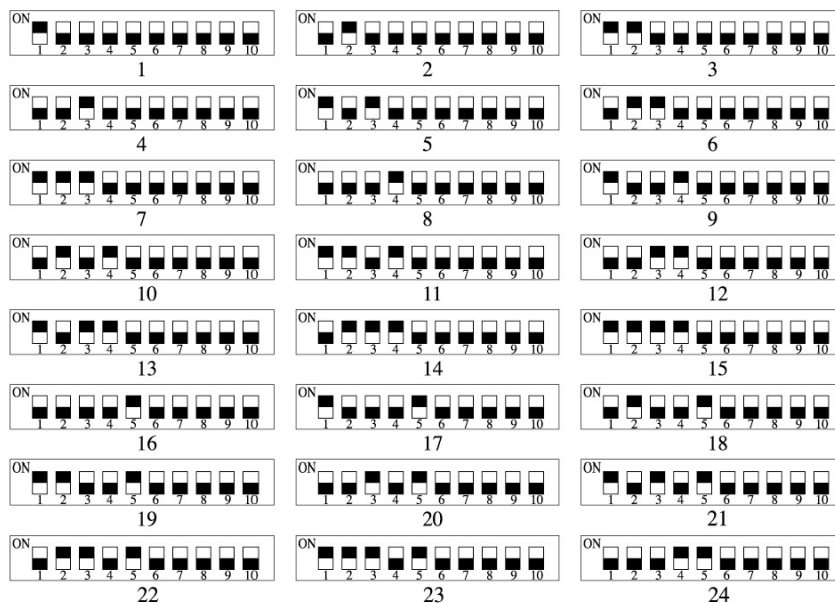
Operation	Function
F1 + 0 + On	No function
F1 + 0 + Off	Camera reset
F1 + 1 + On	Backlight compensation ON
F1 + 1 + Off	Backlight compensation OFF
F1 + 2 + On	LOW illumination ON
F1 + 2 + Off	LOW illumination OFF
F1 + 3 + On	Menu / Display ON
F1 + 3 + Off	Menu / Display OFF
F1 + 4 + On	Digital zoom ON
F1 + 4 + Off	Digital zoom OFF
F1 + 5 + On	Keyboard LCD display ON
F1 + 5 + OFF	Keyboard LCD display OFF
F1 + 6 + On	Auto FOCUS
F1 + 6+ Off	Manual FOCUS
F1 + 7 + On	Auto IRIS
F1 + 7+ Off	Manual IRIS
F1 + 8 + On	Auto White balance
F1 + 8+ Off	Manual White balance
F1 + 9 + On	White balance Indoor model
F1 + 9+ Off	White balance Outdoor model
F1 + 10 + On	White balance OnePush model
F1 + 10+ Off	White balance Auto follow model
F1 + 11 + On	Color picture
F1 + 11+ Off	B/W picture
F1 + 12 + On/ Off	Scan speed: running in lowest
F1 + 13 + On/ Off	Scan speed: running in medium
F1 + 14 + On/ Off	Scan speed: running in high

Operation	Function
Call + 51+ Enter	Scan start
Preset + 51+ Enter	Set the start position of scan
Call + 52+ Enter	Scan stop
Preset + 52+ Enter	Set the end position of scan
Call + 53 + Enter	Auto cruise from No.1 preset position to NO.16 preset position
Preset + 53+ Enter	Do self-test
Preset + 54+ Enter	Camera reset
Call + 55+ Enter	Backlight compensation ON
Preset + 55+ Enter	Backlight compensation OFF
Call + 56+ Enter	LOW illumination ON
Preset + 56+ Enter	LOW illumination OFF
Call + 57+ Enter	Menu / Display ON
Preset + 57+ Enter	Menu / Display OFF
Call + 58+ Enter	Digital zoom ON
Preset + 58+ Enter	Digital zoom OFF
Call + 59+ Enter	Auto FOCUS
Preset + 59+ Enter	Manual FOCUS
Call + 60+ Enter	Auto IRIS
Preset + 60+ Enter	Manual IRIS
Call + 61+ Enter	Auto White balance
Preset + 61+ Enter	Manual White balance
Call + 62+ Enter	Image Freeze ON
Preset + 62+ Enter	Image Freeze OFF
Call + 63+ Enter	Image Mirror ON
Preset + 63+ Enter	Image Mirror OFF
Call + 64+ Enter	Enter menu
Preset + 64+ Enter	No show of operation
Call + 66+ Enter	Outdoor model
Preset + 66+ Enter	Indoor model
Call + 67+ Enter	Color video
Preset + 67+ Enter	B/W video

Operation	Function
Call + n + Enter	To call the number N preset position
Preset + n + Enter	To set the number N preset position
Preset + n + Off	Delete the number N preset position
Cam + n + Enter	Set the dome address “n”
Shot + n + On	To set the cruise tracks
Shot + n + Enter	To call the cruise tracks
Shot + n + Off	Stop the cruise tracks
Shot + n + Off [long press]	Delete the cruise tracks
Auto + On	Set the start position of auto pan
Auto + Off	Set the end position of auto pan
Auto + Enter	The camera will move from the auto pan start position to the auto pan end position
Auto + P1 + On + P2 + Off	The camera will move back from P1 to P2
Wide	ZOOM wide
Tele	ZOOM tele
Far	FOCUS far
Near	FOCUS near
Open	IRIS open
Close	IRIS close

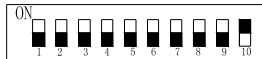
5.3 ID SETTING

ID of this speed dome can be set through the switch with 10 codes. Below is the detail of setting ID code:





Note: Control cables can connect multiple speed dome cameras in parallel provided that No. 10 ID code of the farthest camera is set to “ON”. It will put through a 120 Ω impedance offset resistance. So the operation is also required when the control distance is quite far.



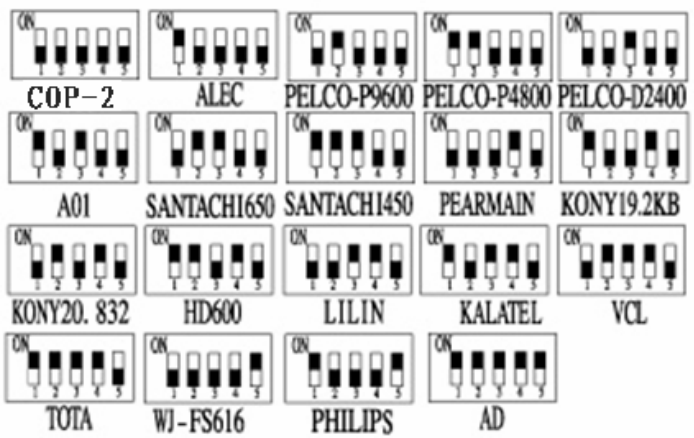
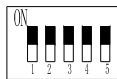
The No. 10 ID code should be set to “ON” for the last camera connected to the daisy chain.

5.4 PROTOCOL SETTING

Protocol of this speed dome can be set through a switch with 5 protocol codes. Below is the detail of setting protocol code:

Note: All setting must be operated after power off.
Power on until it is completed.!

Protocol Setting



5.5 INDICATOR LIGHT DESCRIPTION

There is each green light and red light besides protocol switch and ID switch. Below is the function:

Red Light: on----power on

Green Light: Be light after powered up; if it flashes, it means it has received right order, otherwise it means the order is not right or not received.

6. TROUBLESHOOTING

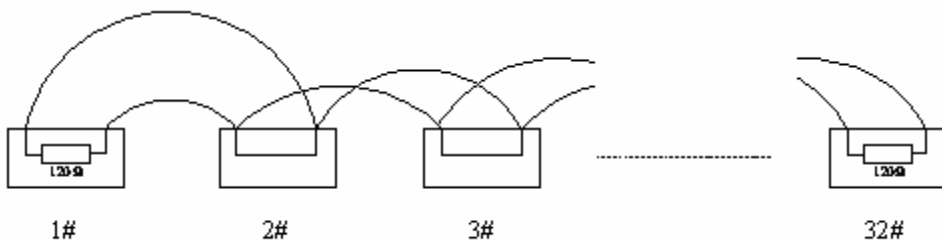
Trouble	Possible Causes	Solution
No action, no video after powered up	Power supply is not well connected	Replace
	Engineering cable failure	Eliminate
	The power supply is not well connected	Correct
Self-check isn't normal, but image is normal and obstacle found in operation.	Machine failure	Repair
	The camera is declining	Put straight
	Voltage is low	Change power and place it near the camera The distance between AC24V power supply to dome camera must be less 50 meters
Self-check is normal but no image	The contact of video cables is incorrect	Correct
	The contact of video cables is loose	Eliminate
	Camera is damaged	Replace
Self-check is normal but it is uncontrollable	The connection of control signal is incorrect	Correct
	Camera number is not set correctly.	Reinstall
	Protocol setting is incorrect	Correct
	RS485 cable A+&B- connection is not correct	Correct
	RS485 cable is too long	The maximum cable for RS485 communication is 1.2km
	RS485 signal network is star configuration	Star distributor is used at junction of connection
Instable image	The contact of video cables is loose	Eliminate
	Voltage is low	Replace
The camera is uncontrollable and running unceasingly	Dropout occurs due to low voltage	Check ID address settings
	Self-check is abnormal	Power up again
	The operation of mainframe is not correct	Power up again
	RS485 bus line isn't equipped with matched resistance, or the resistance is not matched.	Correct
Abnormal video	Extremely bright video	No termination or high resistance

7. CONNECTION OF RS485 BUS AND TERMINATION RESISTOR

1. Characteristics of RS485 Bus

As specified by RS485 standards. RS485 Bus is of half duplexed data transmission cables with characteristic impedance as 12. The maximum load is 32 unit loads (including main controller and controlled equipment.)

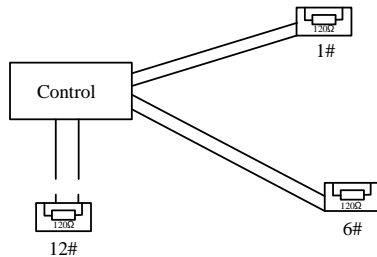
2. The RS485standarda require a daisy-chain connection between the equipment. There must be termination resistor with 120 ohms impedance at both ends of the connection (refer to the following FIGURE)



When No. 10 bit of the Dip is set to “ON”, the 120 ohms termination resistor is connected.

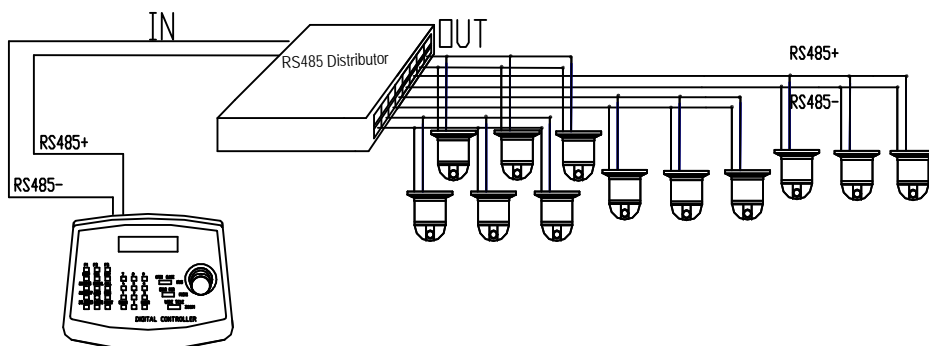
3. Problem in Practical Connection

In some circumstances user adopts a star configuration in practical connection. The termination resistors must be connected to the two equipments (No. 6 and No. 10) that are farthest away from each other. But the connection does not meet the RS485 standards.



When the cable distance of equipments are far away, some problems, such as signal reflection, anti-jamming ability decrease are easily occur and result in the reliability decline of control signal. The resulted phenomena represent that the camera is out of control completely or interruptedly or operates automatically and fails to stop, etc. In such circumstances the factory recommends the RS485 Signal Distributor. The distributor can change the star configuration connection to the mode of connection stipulated in the RS485 standards. The new connection achieves reliable data transmission.

RS485 Distributor



Each connection can connect 32 terminations, and practical connections must be considered.

★ Password Protection for Menu Options

1. First-level default password: 000000 (the password can not change the option of the system setting menu.)
2. High-level default password: 222222

★ Whereas the safety of password, users should clip it out along the broken line and keep it appropriately. It suggests changing the high level password when it is in use.