GSD106

10x Optical High Speed PTZ Dome Camera

User Manual

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Chapter 1 - Product Overview

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2. Multiple protocols and auto protocol negotiation

3. Pan 360°continuous rotation

4. Tilt 90°action plus 2°angle adjustment

5. Pan manual operation speed ranging from 0.1°to 300°/S

6. Tilt manual operation speed ranging from 0.1°to 120°/S

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8. Eight programmable sectional display sectors

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Chapter 2 - Wiring and Setup of Dome System

I. Wiring the Dome

1. Basic System Connection

The basic system connections are shown below. When using this product for the first time, please read and carefully follow this electrical wiring schematic as incorrect wiring may lead to permanent damage of the dome or damage of other attached equipment.

BNC Video Output → Display

Red ⎫
Black ⎭ AC24V Input → Power Supply of Dome

Orange   RS485A (+) ⎫ Controller of
Yellow   RS485B (-) ⎭ the Dome

Yellow-Green ⎫ Connected to
Yellow-Green ⎭ Ground

External Connection for Alarm Input/Output
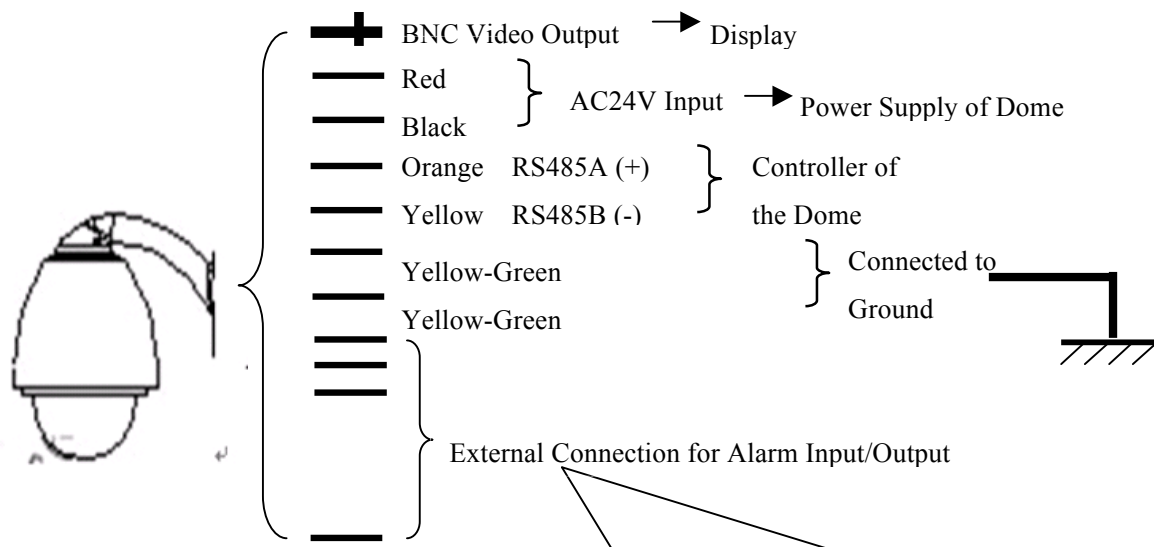
Description for Alarm Function:

No.1 Alarm Input: Red and White

No.2 Alarm Input: Yellow and White

No.3 Alarm Input: Grey and White

No.4 Alarm Input: Orange and White

No.5 Alarm Input: Brown

No.6 Alarm Input: Green and White

No.7 Alarm Input: Brown and White

No.8 Alarm Input: Blue and White

The brown stranded wire with alarm input wire is the alarm system ground

No.8 Alarm Input: Grey and White

   Alarm Input Public Terminal（COM1): Black/White

No.1 Alarm Constant ON Output（NO1): Blue and Green

No.1 Alarm Output Public Terminal（COM1): Blue

No.2 Alarm Constant ON Output（NC2): Brown and Green

No.2 Alarm Output Public Terminal（COM2): Green

2. Multi Dome Connection

When connecting multiple domes together you can embed them in a multi-device system with auxiliary connection to devices, such as surge protectors, video matrixes, DVR's and alarm boxes.

AC24V: Power supply for the dome, which converts 220V/50H$_Z$ input to an AC24V output.

RS-485 Bus: Is for the control signal (RS-485 signal) output of a controller - connected to the communication input terminals of the control cable of each dome.

Video: Is for image signal output of each dome (can be directly output to video equipment, such as a monitor, DVR or video matrix.
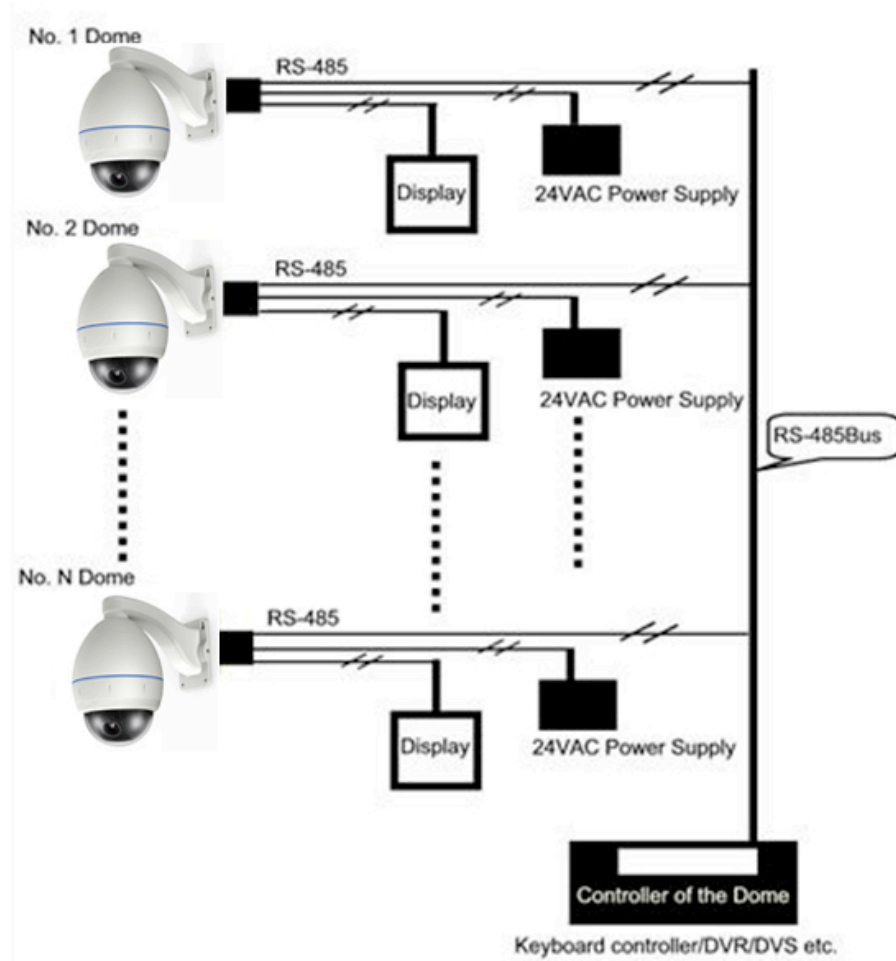
II. Setting the Device Communications

Before installation and use, the settings for the communication protocol and transmission speed (baud rate) should match those used by the control system.

1. Setting the dome's protocol and baud rate.

On/Off

Protocol Setting

Baud Rate Setting
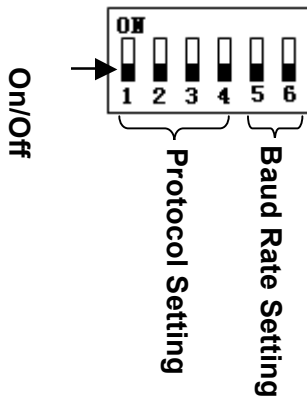
On/Off Protocol	1st digit	2nd digit	3rd digit	4th digit	5th digit	6th digit
PELCO-D	ON	ON	OFF	OFF	**	**
PELCO-P	OFF	ON	OFF	OFF	**	**
DYNACOLOR	ON	OFF	OFF	OFF	**	**
ULTRACK	OFF	OFF	ON	OFF		
VICON	OFF	OFF	OFF	OFF	**	**

Note: The protocol and baud rate of dome should match with those used by the controller. The dome needs to be restarted after revision.

This figure shows the setting PELCO-D protocol and baud rate of 2400bps
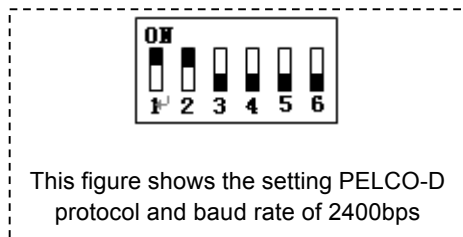
On/Off Baud Rate	5th digit	6th digit
2400	OFF	OFF
4800	OFF	ON
9600	ON	OFF
19200	ON	ON

2. Address setting of dome device

On/Off
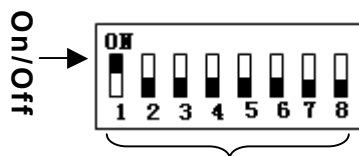
Address setting address for dome (this figure shows the dome address of dome as 1)

Dome device range: 1~255

Setting method: The sum of switch numbers when they are in the ON position is the address of the dome.

On/Off and matching numbers

Matching numbers

1
2
4
8
128
64
32
16
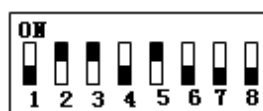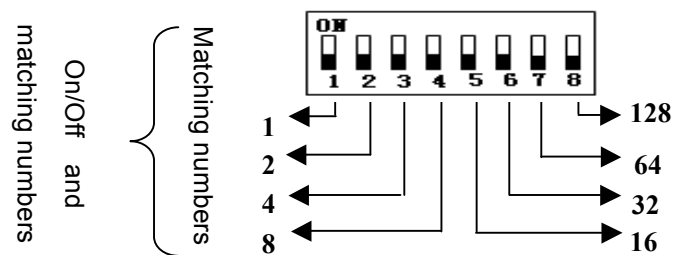
2   4   16

Calculation example of a dome address:
（**2+4+16=22**）the address is **22**.

4

Chapter 3 - Quick Operating Guide

I. Wiring

BNC Video Output → Display

Red ⎫
Black ⎭ AC24V Input → Power Supply of Dome

Orange RS485A (+) ⎫ Controller of
Yellow RS485B (-) ⎭ the Dome

Yellow-Green Interphase Colour ⎫ Connected to
Yellow-Green Interphase Colour ⎭ Ground

External Connection for Alarm Input/Output
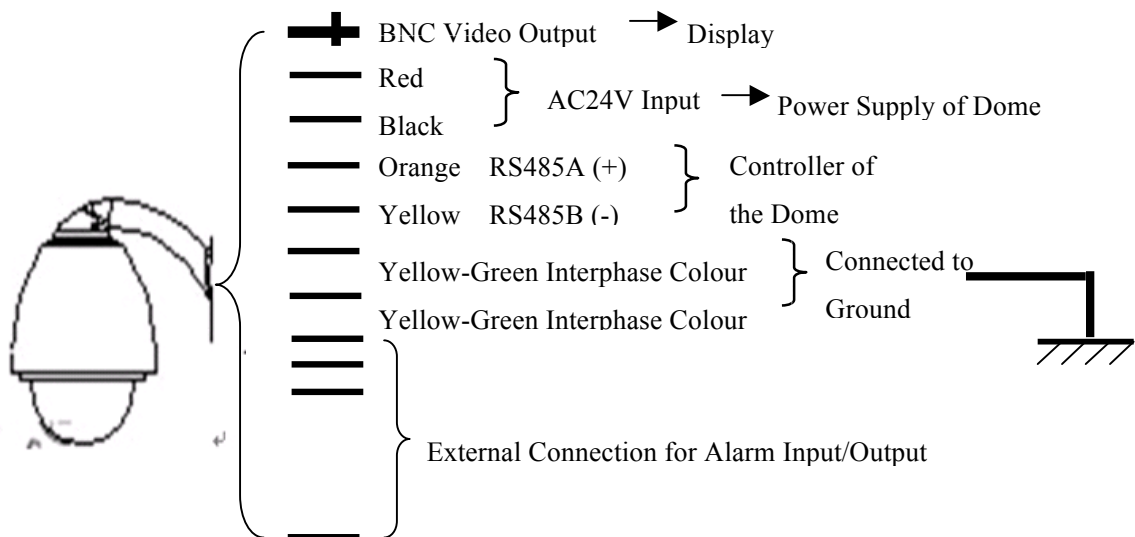
II. Setting Protocol and Baud Rate

Turn the power Off when setting, and restart the dome after revision

Protocol   Baud Rate

Setting   Setting

Protocol   Baud Rate
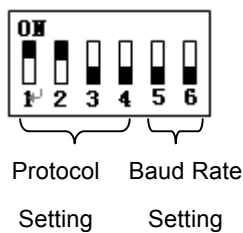
Setting   Setting

The figure shows: Protocol: **PELCO-D**

Baud rate: **2400 bps**
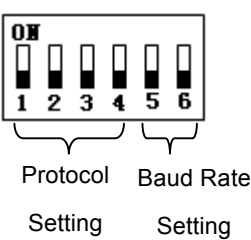
The figure shows: Auto detection protocol.

Baud rate: **2400bps**

(Refer to detailed parameters in the next chapter)

III. Setting Dome Address
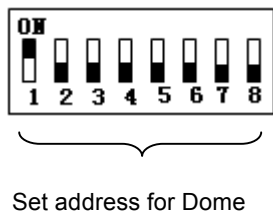
The figure shows: A Dome Address of 1

Set address for Dome

(Refer to detailed parameters in the next chapter)

This dip switch is located on the PCB in the dome

IV. Install Camera

Note: 1. Do not connect the camera and dome with FFC in an incorrect manner.

2.The installation fixing holes of for different camera may differ.

V. Connect the Dome Power

When power is applied to the Dome the product enters a self-test routine which outputs the video image to an attached monitor.

Note: When the dome is self-testing it is normal to hear sounds made by the Dome's pan and tilt motors.

VI. Controller

Set the communication protocol, baud rate and address of the keyboard controller. These must be identical to those used for the Dome. Please refer to the Keyboard Controller instruction manual.

Note: If the protocol for the Dome is set to auto detection, the protocol for the Keyboard Controller can be set arbitrarily, but the baud rate must be set identical with that of the Dome.

VII. Start Testing

When the above are complete, the Dome testing can be started.

1. Direction Control Test	2. Zoom Control Test
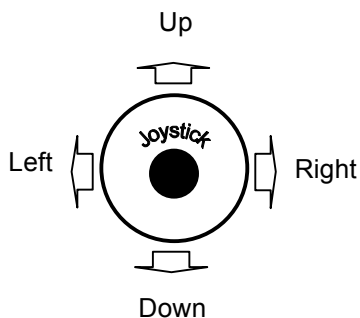
The up, down, left and right directions of the Dome can be controlled by using the Keyboard Controller, as indicated above.
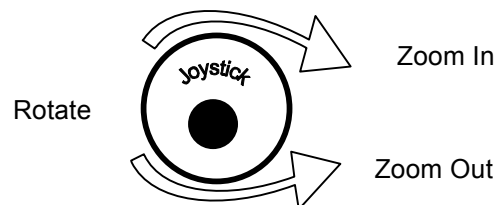
The Camera Zoom can be controlled using the Joystick zoom function, or by the TELE (Zoom in) and WIDE (Zoom out) keyboard buttons.

VIII. Complete the Test

1. If the test performance is normal it indicates the system is operating normally. Please do not make any changes to the wiring and or settings. To do so may cause faults and/or unnecessary damage and loss.

2. If the test performance is abnormal, or only one test is performing normally, please check the wiring (items 1 and IV) and the settings (item II, III and VI).

Menu tree (flowchart):

ROOT
1.LANGUAGE   ENGLISH
2.DISPLAY   OPTIONS
3.CONTROL   OPTIONS
4.SYSTEM   OPTIONS
5.CAMERA   OPTIONS
6.FUNCTION PROGRAMMING
7.USER ADMIN
8.DATE/TIME

DISPLAY OPTIONS
1.PRESET SETUP
2.SECTOR SETUP
3.COORDINATES
4.CROSSHAIRS   ON   OFF
5.START-UP SCR MSG ON
6.OSD STYLE   NORMAL

CONTROL OPTIONS
1.SET PAN AND TILT
2.SET DEFAULT FUNCTION
3.SPEED LIMIT   ON
4.AUTO FLIP   ON
5.AUTO FOCUS   PTZ
6.AUTO AE   PTZ
7.VECTORSCAN AF   OFF
8.VECTORSCAN STILL OFF

SYSTEM OPTIONS
1.CLEAR MEMORY
2.RESTORE DEF SETTING
3.COLOR SYSTEM   PAL
4.RESET DOME
5.DOME INFORMATION
6.COMM SETTINGS
7.CAMERA MEMORY   OFF

CAMERA OPTIONS
1.ZOOM AND FOCUS
2.CAMERA EXPOSURE
3.MASK ZONE
4.MASK COLOR
5.OTHERS

FUNCTION PROGRAMMING
1.PTZ TOUR
2.PROGRAM VECTORSCAN
3.PROGRAM ALARMS
4.MASK ZONE(IVA)
5.TEMPERATURE PROG

USER   ADMIN
1.MASTER SETUP
2.OPERATOR SETUP
3.AUTHORIZATION
4.PASSWORD LOGON   OFF

DATE/TIME
1.DATE/TIME SETUP
2.ASSIGNMENT
3.POWER TIMER

PRESET NAME
1.NUMBER   1
2.NAME
3.CALL PRESET
4.PAN END POS
5.TILT START POS
6.TILT END POS
7.NAME DISPLAY   OFF

SECTOR SETUP
1.NUMBER   1
2.NAME
3.PAN START POS   0.0
4.PAN END POS   0.0
5.TILT START POS   0.0
6.TILT END POS   0.0
7.NAME DISPLAY   OFF

SET PAN AND TILT
1.PAN REVERSE   OFF
2.TILT REVERSE   OFF
3.+/-TILT LIMIT(N/A)
4.FIND HOME ON STA. ON

SET DEFAULT FUNCTION
1.DEFAULT FUNCTION P
2.NUMBER   1
3.DELAY   60
4.OPERATION   OFF

COMM SETTINGS
1.COMM MODE HW
2.DOME ID   1
3.BAUD RATE   2400
4.INPUT SN   53N
                    10000033

ZOOM AND FOCUS
1.ZOOM SPEED   7
2.DIGITAL ZOOM   ON
3.AF SENSITIVITY   HIGH

CAMERA EXPOSURE
1.AE MODE   AUTO
2.SLOW SHUTTER   OFF
3.SHUTTER SPEED   AUTO
4.IRIS LEVEL   AUTO
5.AGC LEVEL   AUTO
6.BRIGHT LEVEL   AUTO
7.SPOT AE   OFF

MASK ZONE
1.NUMBER   1
2.MASK EDIT
3.MASK DISPLAY   OFF

MASK COLOR
1.MASK COLOR   GRAY
2.SEMI-TRANSPARENCY OFF

OTHERS
1.SHARPNESS   5
2.BACK LIGHT   OFF
3.WB MODE   AUTO
4.R GAIN   AUTO
5.B GAIN   AUTO
6.VERTICAL MIRROR   OFF
7.HORIZONTAL MIRROR OFF
8.IR SW MODE   AUTO
9.STABILIZATION   OFF
10.FUNCTION OSD   OFF
11.WDR

PTZ TOUR
1.NUMBER   1
2.NAME
3.PROGRAM A TOUR
4.RUN A TOUR
5.DELETE A TOUR
6.NAME DISPLAY   OFF

PROGRAM VECTORSCAN
1.NUMBER   1
2.PROGRAM A VECTORSCAN
3.RUN A VECTORSCAN
4.DELETE A VECTORSCAN

ALARM PROGRAMMING
1.ALARM IN PROGRAMMING
2.ALARM OUT PROGRAMMING

TEMPERATURE PROG
1.DISPLAY   OFF
2.POWER OFF TEMP   +65

MASTER SETUP
1.PASSWORD EDIT
2.OPERATION LOCK   OFF
3.WAIT   120

OPERATOR SETUP
1.PASSWORD EDIT
2.OPERATION LOCK   OFF
3.WAIT   120

AUTHORIZATION
1.PROGRAM PRESET   ON
2.CALL PRESET   ON
3.CAMERA SETUP   OFF
4.PROGRAM PTZ TOUR ON
5.RUN PTZ TOUR   ON
6.PROGRAM VECTORSCAN OFF
7.RUN VECTORSCAN   ON
8.PROGRAM DATE/TIME OFF
9.PROGRAM ALARM   OFF
10.OPERATE DOME MENU ON

DATE/TIME SETUP
1.LOCK DISPLAY   ON
2.DATE DISPLAY   ON
3.DISPLAY MODE Y/M/D
4.DATE/TIME MODIFY

ASSIGNMENT
1.NUMBER   1
2.PROGRAM   OFF
3.ENABLE

POWER TIMER
1.MODE   OFF
2.POWER ON SETUP
3.POWER OFF SETUP

DATE/TIME MODIFY
1.YEAR   12
2.MONTH   3
3.DATE   6
4.DAY   TUE
5.HOUR   10
6.MINUTE   9
7.SECOND   43

PROGRAM   PRESET
1.MATTER   PRESET
2.NUMBER   1
3.MODE   EACH DAY
4.START TIME SETUP
5.END TIME SETUP

POWER ON SETUP
1.HOUR   0
2.MINUTE   0
3.SECOND   0

POWER OFF SETUP
1.HOUR   23
2.MINUTE   59
3.SECOND   59

ALARM IN PROGRAMMING
1.CHANNEL NUMBER   1
2.SENSOR TYPE   NO
3.OPERATION TIME
4.LABEL EDIT
5.LABEL DISPLAY   OFF
6.MATTER SETUP
7.PRIORITY   1
8.CHANNEL ENABLE   OFF

ALARM OUT PROGRAMMING
1.CHANNEL NUMBER   1
2.NOTICE LABEL
3.LABEL DISPLAY   OFF
4.TRIGGER   ALARM IN 1
5.ENABLE   OFF
6.DWELL TIME   60

START TIME SETUP
1.HOUR   0
2.MINUTE   0
3.SECOND   0

END TIME SETUP
1.HOUR   23
2.MINUTE   59
3.SECOND   59

MATTER SETUP
1.MATTER PRESET   1
2.NUMBER   1
3.DWELL TIME   60

OPERATION TIME
1.MODE EACH DAY
2.ENABLE TIME SETUP
3.DISABLE TIME SETUP

ENABLE TIME SETUP
1.HOUR   0
2.MINUTE   0
3.SECOND   0

DISABLE TIME SETUP
1.HOUR   23
2.MINUTE   59
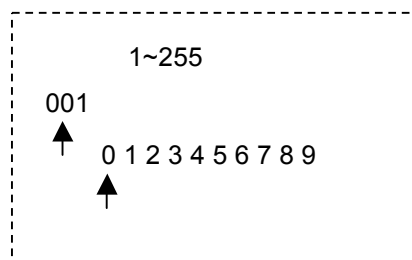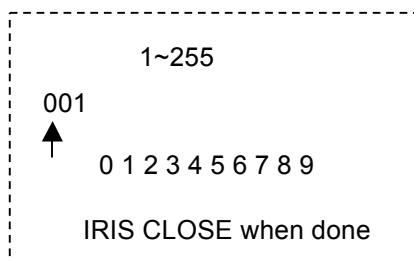3.SECOND   59

Chapter 4 – Operation Menu

I. Operating Instructions

<1>. Menu Operation Instructions

1. Input a Tilt movement command for cursor movement and option selection, namely the controller moves the Joystick up and down; hereinafter called Joystick Up/Down

2. Input a Pan movement command for entering into an option or for changing a setting value, namely the controller moves the Joystick left and right; hereinafter called Joystick Left/Right

3. Input an Iris Open command for confirming setup or for changing value(s), namely the controller initiates an IRIS OPEN command; hereinafter called Press IRIS OPEN

4. Input an Iris Close command to cancel a setting or to Exit, namely the controller initiates an IRIS CLOSE command; hereinafter called Press IRIS CLOSE
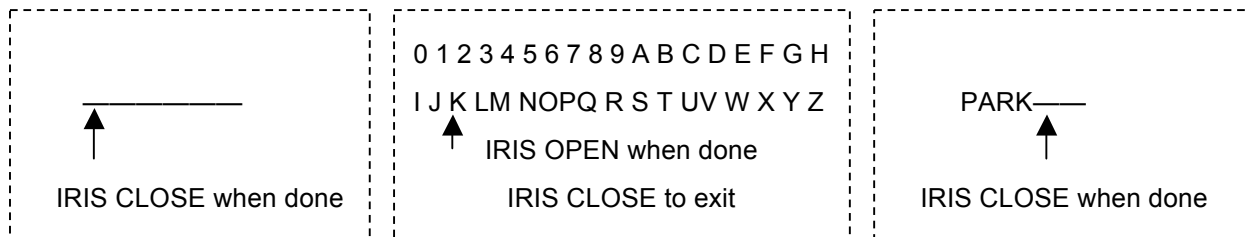
<2>. To Input a Numeric Value

1. Move the Joystick Left/Right for the cursor to select the numeric value to be entered.
2. Press IRIS OPEN to confirm, and the number selected is displayed; as indicated in the pictures below.
3. Move the Joystick Left/Right to select the next number to be entered.
4. Press IRIS OPEN to confirm, the selected number is displayed in the corresponding data bit.
5. Press IRIS CLOSE to confirm and exit when complete.

```
┌ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ┐        ┌ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ┐
           1~255                                  1~255
   001                                    001
    ↑                                      ↑
       0 1 2 3 4 5 6 7 8 9                    0 1 2 3 4 5 6 7 8 9
                                               ↑
     IRIS CLOSE when done
└ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ┘        └ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ┘
```

<3>. To Input a Character

1. Move the Joystick Left/Right for the cursor to select the character to be entered.
2. Press IRIS OPEN to confirm, and the character selected is displayed; as indicted in the pictures below.
3. Move the Joystick Left/Right to select the next character to be entered.
4. Press IRIS OPEN to confirm, the character is displayed in the corresponding data bit.
5. Input other characters, as required by repeating the above procedure.
6. Press IRIS CLOSE to save and exit when complete.

```
0 1 2 3 4 5 6 7 8 9 A B C D E F G H
I J K LM NOPQ R S T UV W X Y Z
        ↑  IRIS OPEN when done
   IRIS CLOSE to exit
```

```
────────
      ↑
IRIS CLOSE when done
```

```
PARK──
      ↑
IRIS CLOSE when done
```

<4>. Logon

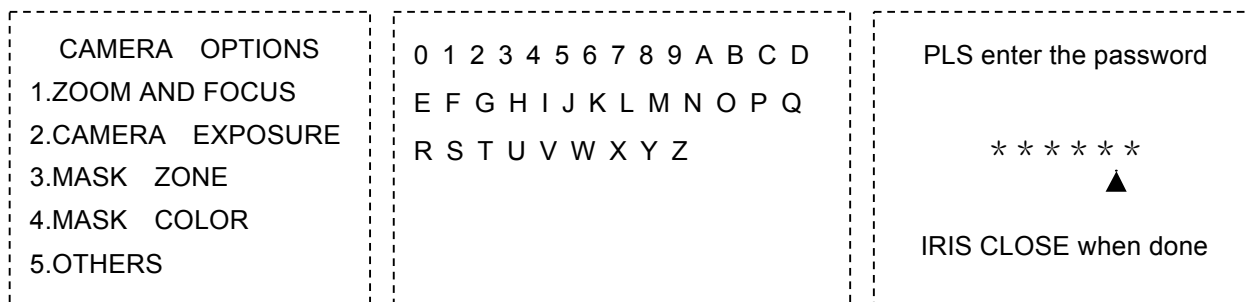**1.** Invoke Preset 92 preset for the Administrator logon.

Invoke Preset 93 preset for the Operator logon.

Factory Set Password: Administrator: 000000   Operator: 111111

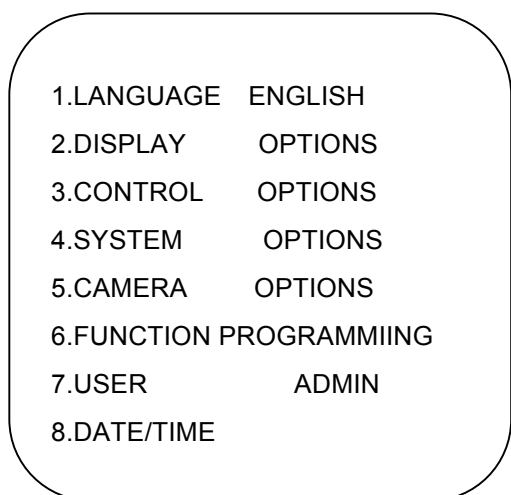**Note**: The Administrator password should be changed and be kept secure.

2. Move the cursor after entering the *Please enter the Password* interface. Select the bit to be entered.Then press IRIS OPEN to enter the alphanumeric and press IRIS OPEN to confirm. Input the correct 6 digit passwords as shown above.

After the input is complete, press IRIS CLOSE. *Error* will be prompted on screen if the input is wrong. The screen goes directly into the window to be operated if the input is correct.

```
  CAMERA   OPTIONS
1.ZOOM AND FOCUS
2.CAMERA   EXPOSURE
3.MASK   ZONE
4.MASK   COLOR
5.OTHERS
```

```
0 1 2 3 4 5 6 7 8 9 A B C D
E F G H I J K L M N O P Q
R S T U V W X Y Z
```

```
PLS enter the password

    * * * * * *
           ▲

IRIS CLOSE when done
```

II. Menu Tree List

<1> Main Menu.   Press 90+PRE to enter the Main Menu.

```
1.LANGUAGE   ENGLISH
2.DISPLAY        OPTIONS
3.CONTROL      OPTIONS
4.SYSTEM         OPTIONS
5.CAMERA       OPTIONS
6.FUNCTION PROGRAMMIING
7.USER              ADMIN
8.DATE/TIME
```

<2> All sub-menus can be seen in this tree list

1.Language Options   (English/Espanol/Polski)

   <<Language Options   Jovstick Left/Right to select

2.Display Options

   <<Display Options   Press IRIS OPEN or Jovstick Left/Right to enter
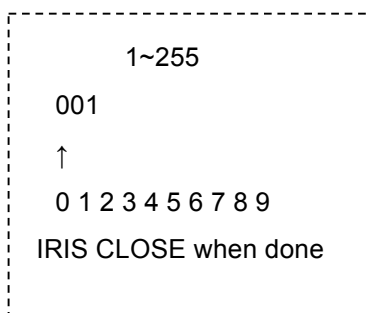
2.1.Preset Setup

  <<Preset Setup Options

  ① Number   1

   <<Preset Number Selection   Press IRIS OPEN or Jovstick Left/Right to enter

```
┌ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ┐
        1~255
   001
   ↑
   0 1 2 3 4 5 6 7 8 9
   IRIS CLOSE when done
└ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ┘
```

   <<The default number after entering is 001 (hundred bit/ten bit/single bit). Joystick Left/Right to select the Preset position and press IRIS OPEN to confirm. Joystick Left/Right again to select numbers (0~~9). Press IRIS OPEN to confirm the selection. Press IRIS CLOSE to exit to the upper level menu when programming is complete.

  ② Set Preset

   <<Set Preset   Press IRIS OPEN or Jovstick Left/Right to enter

```
┌ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ┐
       STORED
└ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ┘
┌ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ┐
   IRIS CLOSE when done
└ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ┘
```
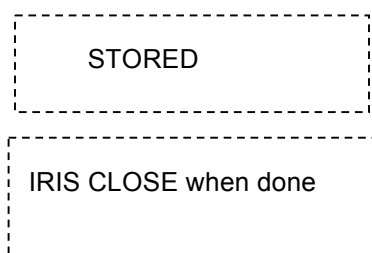
Move the cursor to select the Preset position. Press IRIS CLOSE to finalise your selection. The screen displays STORED and returns to the previous menu.

  ③ Call Preset

   <<Call Preset   Press IRIS OPEN or Joystick Left/Right to enter

    Select the number to be called. Joystick Up/Down to select the Call Preset Menu. Joystick Left/Right or press IRIS OPEN and the camera moves to corresponding Preset number.

④ Delete Preset

  <<Delete Preset   <mark>Press IRIS OPEN or Joystick Left/Right to enter</mark>

    Select the number needed to be deleted from the number options.Move the cursor to Delete Preset.

    Joystick Left/Right or press IRIS OPEN to enter into the Delete Preset menu. Press IRIS OPEN to confirm

    the selection or IRIS CLOSE to cancel the selection and exit.

```
┌ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ┐
│                       │
│  Are you sure to do this?  │      <<Reminder: Are you sure you want to delete the Preset?
│  IRIS OPEN to confirm   │         Press IRIS OPEN to confirm
│                       │         Press IRIS CLOSE to exit to the upper level menu.
│  IRIS CLOSE to cancel   │
│                       │
└ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ┘
```

⑤ Name   _ _ _ _ _ _ _

  <<Edit the Preset Name   <mark>Press IRIS OPEN or Joystick Left/Right to enter</mark>

```
┌ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ┐
│                       │
│    _ _ _ _ _ _ _      │
│      ↑                │      Press IRIS OPEN to enter
│   IRIS CLOSE when done │
│                       │
└ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ┘
```

```
┌ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ┐
│                       │      <<Joystick Left/Right when programming to select the Preset and
│  0 1 2 3 4 5 6 7 8 9 A B C D E │       press IRIS OPEN to confirm.
│  F G H IJ K L M N O P Q R S │       Joystick Left/Right to select (0~~9 or A~~Z). Press IRIS OPEN to
│  TU V W X Y Z _        │       confirm selection.
│     IRIS OPEN when done │       Press IRIS CLOSE to exit to the upper level menu when
│     IRIS CLOSE to exit │       programming is complete.
│                       │
└ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ┘
```

⑥ Name Display   ON

  <<Name Display ON/OFF   <mark>Joystick Left/Right to select</mark>

                                    <mark>IRIS CLOSE to exit</mark>

2.2.Sector Setup

  <<Sector Setup   <mark>Press IRIS OPEN or Joystick Left/Right to enter</mark>

① Number   1

<<Number Selection (1 ~ 8)   Joystick Left/Right to select

② Name   _ _ _ _ _ _ _

  <<Name Editing   Press IRIS OPEN or Joystick Left/Right to enter

```
    _ _ _ _ _ _ _
    ↑
   IRIS CLOSE when done
```

Press IRIS OPEN to enter

```
0 1 2 3 4 5 6 7 8 9 A B C D E
F G H I J K L M N
       ↑
O P Q R S T U V W X Y Z _
    IRIS OPEN when done
```

<< Joystick Left/Right when programming to select the
Preset and press IRIS OPEN to confirm.
Joystick Left/Right to select (0~9 or A~Z). Press IRIS OPEN
to confirm selection.
Press IRIS CLOSE to exit to upper level menu when
programming is complete.

③ Pan Start Pos   0.0

```
   IRIS CLOSE when done
```

<< Setup Pan start point. Press IRIS OPEN or Joystick
Left/Right to enter. Use joystick to capture Pan start point.
Press IRIS CLOSE to confirm and exit to upper level menu.

④ Pan End Pos   0.0

```
   IRIS CLOSE when done
```

<< Setup Pan end point. Press IRIS OPEN or Joystick
Left/Right to enter. Use joystick to capture Pan end point.
Press IRIS CLOSE to confirm and exit to upper level menu.

⑤ Tilt Start Pos   0.0

```
   IRIS CLOSE when done
```

<< Setup Tilt start point. Press IRIS OPEN or Joystick Left/Right to
enter. Use joystick to capture Tilt start point. Press IRIS CLOSE to
confirm and exit to upper level menu.

⑥ Tilt End Pos   0.0

```
   IRIS CLOSE when done
```

<< Setup Tilt end point. Press IRIS OPEN or Joystick Left/Right to
enter. Use joystick to capture Tilt end point. Press IRIS CLOSE to
confirm and exit to upper level menu.

⑦ Name Display   ON   <<Sector Name Display   ON/OFF

Joystick Left/Right to select

IRIS CLOSE to exit

2.3. Co-ordinates   ON

<<Co-ordinates display On/Off   Joystick Left/R ight to select

2.4. Crosshairs   OFF

<<Crosshairs   On/Off   Joystick Left/Right to select

2.5.Start-Up Scr Msg   ON

<<Start-Up screen message display On/Off   Joystick Left/Right to select

2.6. OSD Style   NORMAL

<<The style of the OSD menu is Nomal   Joystick Left/Right to select

2.7．Dome Name Setup

<<Setup the Name of the Dome   Joystick Left/Right to select

```
--------------------------------
  1.DOME NAME
  2.NAME DISPLAY     OFF
--------------------------------
      _ _ _ _ _ _ _

      ↑                              Press IRIS OPEN to enter
    IRIS CLOSE when done

--------------------------------
```

Press IRIS CLOSE to exit

3.Control Options

3.1.Set Pan and Tilt

⊖	Pan Reverse	OFF	<< Pan Reverse	ON/OFF	Joystick Left/Right to select
⊜	Tilt Reverse	OFF	<< Tilt Reverse	ON/OFF	Joystick Left/Right to select
⊛	+2 Tilt Limit	OFF	<<+2 Tilt Limit	ON/OFF	Joystick Left/Right to select
④	Find Home On Sta.	ON	<< Find Home on Start	ON/OFF	Joystick Left/Right to select
					IRIS CLOSE to exit

3.2.Set Default Function

⊖ Default Function   P/V/T

⊜ Number   1

```
1~255

001
     ↑
  0123456789
IRIS CLOSE when done
```
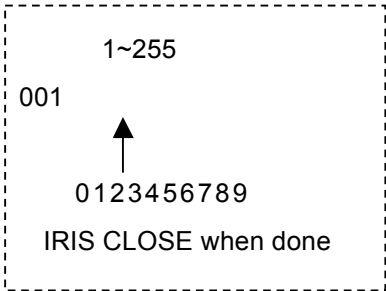
<< Joystick Left/Right when programming to select the Preset. Press IRIS OPEN to confirm. Joystick Left/Right to select (0~~9). Press IRIS OPEN to confirm selection. Press IRIS CLOSE to exit to upper level menu when programming is complete.

⊛ Delay   60

```
1~999

060
     ↑
  0123456789
IRIS CLOSE when done
```
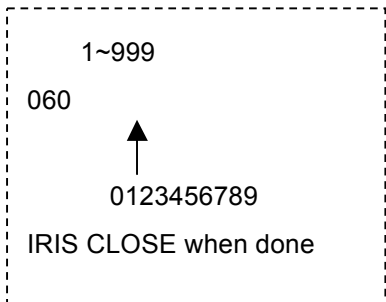
<< Joystick Left/Right when programming to select the Preset. Press IRIS OPEN to confirm. Joystick Left/Right to select (0~9). Press IRIS OPEN to confirm. Press IRIS CLOSE to exit to upper level menu when programming is complete.

④ Operation   OFF

    <<Default function   ON/OFF   Joystick Left/Right to select

                                    IRIS CLOSE to exit

3.3. Speed Limit   ON

  <<Operation speed limit   ON/OFF   Joystick Left/Right to select

3.4. Auto Flip   ON

  <<Auto flip   ON/OFF   Joystick Left/Right to select

3.5. Auto Focus   PTZ

  <<Auto focus options PTZ/OFF/Z   Joystick Left/Right to select

3.6. Auto AE   PTZ

  <<Auto AE option PTZ/OFF/Z   Joystick Left/Right to select

3.7. VectorScan AF   OFF

  <<VectorScan auto focus control ON/OFF   Joystick Left/Right to select

3.8. VectorScan Still   OFF

  << VectorScan Still   ON/OFF   Joystick Left/Right to select

                                    IRIS CLOSE to exit

4. System Options

<< System Options   Press IRIS OPEN or Joystick Left/Right to enter

Function Description: This option is used for data information management of the dome. The operating
                authority on this option is limited to the Administrator (with the correct password).

4.1. Clear Memory

<<Clear data in the memory   Press IRIS OPEN or Joystick Left/Right to enter

```
Are you sure to do this?
IRIS OPEN to confirm
IRIS CLOSE to cancel
```

  <<Reminder: Are you sure you want to do this?
Press IRIS OPEN to confirm.
Press IRIS CLOSE to exit and return to upper level menu.

4.2. Restore Default Settings

<<Restore default settings   Press IRIS OPEN or Joystick Left/Right to enter

```
Are you sure to do this?
IRIS OPEN to confirm
IRIS CLOSE to cancel
```

<< Reminder: Are you sure you want to do this?
Press IRIS OPEN to confirm.
Press IRIS CLOSE to exit and return to upper level menu.

4.3. Colour System   PAL/NTSC

<< PAL/NTSC switch   Joystick Left/Right to select

4.4. Restart the Dome

<< Restart the Dome

```
Are you sure to do this?
IRIS OPEN to confirm
IRIS CLOSE to cancel
```

<<Reminder: Are you sure you want to do this?
Press IRIS OPEN to confirm.
Press IRIS CLOSE to exit and return to upper level menu.

4.5. Dome Information

<<Dome Information   Press IRIS OPEN or Joystick Left/Right to enter

```
┌ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ┐
│                          │
   Camera: FCB-EX1020P            <<Type of Camera module
│                          │
   Protocol: Pelco-D              <<Control Protocol
│                          │
   Baud Rate: 2400                <<Baud Rate
│                          │
   Dome No.:1                     <<Dome Number
│                          │
   COMM MODE: HW                  <<Communication Mode
│                          │
   SN: 10000084                   <<Serial Number
│                          │
   IRIS CLOSE to exit             <<Press IRIS CLOSE to exit and return to upper level
│                          │
└ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ┘          menu.
```

                                            Press IRIS CLOSE to exit

4.6.Communications Settings

<< Comm Settings   Joystick Left/Right to select

① COMM MODE   HW/SW
<< Hardware Address/Software Address   Joystick Left/Right to select

② Dome ID   1
<< ID Adress of the Dome   Joystick Left/Right to select. Can only be set by the R/W mode
                                            of the comm setting

③ Baud Rate   1
<< Baud Rate of the Dome   Joystick Left/Right to select. Can only be set by the R/W mode
                                            of the comm setting

④ INPUT SN   Joystick Left/Right to select

⑤ SN
 <<Serial Number   N/A

4.7 Camera Memory   OFF/ON

<< Automatic defaults to the last model   Joystick Left/Right to select
   of the Camera module

5.Camera Options

<< Camera Options   Press IRIS OPEN or Joystick Left/Right to enter

5.1. Zoom and Focus

<< Zoom and Focus   Press IRIS OPEN or Joystick Left/Right to enter

⊖   Zoom Speed   7
   << Zoom Speed   1~8   Joystick Left/Right to select

⊖   Digital Zoom   OFF
   <<Digital Zoom   ON/OFF   Joystick Left/Right to select

⊛   AF Sensitivity   High
   << AF Sensitivity   High/Low   Joystick Left/Right to select

                             Press IRIS CLOSE to exit

5.2. Camera Exposure

<< Camera Exposure   Press IRIS OPEN or Joystick Left/Right to enter

① AE Mode   AUTO
<<AE Mode   AUTO/Manual/Shutter/Iris/Bright   Joystick Left/Right to select

② Slow Shutter   ON
   << Slow Shutter   ON/OFF   Joystick Left/Right to select

③ Shutter Speed   AUTO
<< Shutter Speed   AUTO   Joystick Left/Right to select
   Is adjustable under AE mode Manual or Shutter.

④ Iris Level   AUTO
<< Iris Level   AUTO   Joystick Left/Right to select
   Is adjustable under AE mode Manual or Iris.

⑤ AGC Level   AUTO
<< AGC Level   AUTO   Joystick Left/Right to select
   Is adjustable under AE mode Manual.

⑥ Brightness Level   AUTO
<< Brightness Level   AUTO   Joystick Left/Right to select
   Is adjustable under AE mode Bright.

⑦ Spot AE   OFF
   << Spot AE   ON/OFF   Joystick Left/Right to select

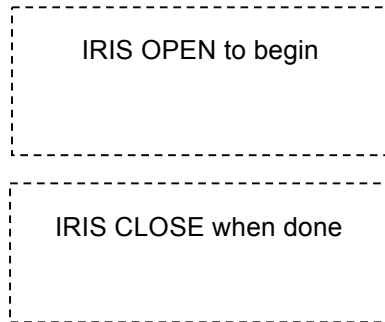   Press IRIS CLOSE to exit

5.3. Mask Zone

<< Mask Zone   Press IRIS OPEN or Joystick Left/Right to enter

①Number   1
   << Number 1~24   Joystick Left/Right to select

②Mask Edit
 << Mask Edit   Press IRIS OPEN or Joystick Left/Right to enter

```
IRIS OPEN to begin
```
<<Press IRIS OPEN to begin，use FAR/NEAR，WIDE/TELE to set the mask zone.

```
IRIS CLOSE when done
```
<<Press IRIS CLOSE to save

③Mask Display   ON
<< Mask Display   ON/OFF   Joystick Left/Right to select

Press IRIS CLOSE to exit

5.4. Mask Colour

<< Mask Colour   Press IRIS OPEN or Joystick Left/Right to enter

Mask Colour   White
<< Mask Colour (Grey1~6, White, Red, Green, Blue, Cyan, Yellow, Magenta, Black)
                           Joystick Left/Right to select

②Semi-Transparency   ON
<< Semi-Transparency   ON/OFF   Joystick Left/Right to select

Press IRIS CLOSE to exit

5.5 Others

<< Others   Press IRIS OPEN or Joystick left/right to enter

①Sharpness   5
 << Sharpness   (0~15)   Joystick Left/Right to select

②Backlight   OFF
 << Backlight   ON/OFF   Joystick Left/Right to select

③WB Mode   AUTO
<< WB Mode Auto/Manual/Indoor/Outdoor/OnePush/ATW   Joystick Left/Right to select

④ R Gain   AUTO
 <<R Gain   Is adjustable under WB mode manual   Joystick Left/Right to select

⑤ B Gain   AUTO
 <<B Gain   Is adjustable under WB mode manual   Joystick Left/Right to select

⑥ Vertical Mirror   OFF
 << Vertical Mirror   ON/OFF   Joystick Left/Right to select

⑦ Horizontal Mirror   OFF
 << Horizontal Mirror   ON/OFF   Joystick Left/Right to select

⑧ IR SW Mode   AUTO
 << IR SW Mode   AUTO/Colour/B/W   Joystick Left/Right to select

⑨ Stabilisation   OFF
<< Stabilisation   ON/OFF   Joystick Left/Right to select

⑩ Function OSD   ON
 << Function OSD   ON/OFF   Joystick Left/Right to select

                                                            Press IRIS CLOSE to exit

6.Camera Options

 << Camera Options   Press IRIS OPEN or Joystick Left/Right to enter

6.1 CAM TITLE

 << The Title of the Camera   Press IRIS OPEN or Joystick Left/Right to enter

```
        CAM TITLE SETUP
A B C D E F G H I J K L M N O
P Q S T U V W X Y Z  a  b  c  d
e f g h l j k l m n o p q r s
t u v w x y z 0 1 2 3 4 5 6 7
8 9 ( ) < > - / # * ! ? , .


← → CLR   POS   END
```

Move the joystick to select the characters for the Camera name. Press IRIS OPEN to confirm each selection. Repeat the procees until all charactres have been entered.

Press IRIS CLOSE to exit

6.2 WHITE BAL

<< White Balance   <mark>Press IRIS OPEN or Joystick Left/Right to enter</mark>

① ATW   <<Auto Trace White Balance adjusts the colour automatically, depending on the source of light.

```
----------------------------
    WHITE BAL MODE
 ATW MODE
 OUTDOOR
 END
----------------------------
```

ATW-OUTDOOR: Use this mode for a broad range of colour temperatures.
ATW-INDOOR: Use this mode for a limited range of colour temperatures.

<mark>Choose "END", or Press IRIS CLOSE to Exit</mark>

② MANUAL   << Manual White Balance   <mark>Joystick Left/Right to select</mark>

```
----------------------------
WHITE BAL MANUAL SETUP

   RED     29 - — - ┬ -
 ►
   BLUE    41 - - - ┬ -

   END
----------------------------
```

<mark>Choose "END", or Press IRIS CLOSE to Exit</mark>

③ AWC→SET << Auto White Correct   <mark>Joystick Left/Right to select</mark>

Set up the lighting for the objects under surveillance with the colour temperature of a white object; such as a piece of paper. If the lighting source changes AWC will need to be carried out again.

6.3 BACKLIGHT   Off/Low/Middle/High

<< Backlight Compensation   <mark>Joystick Left/Right to select</mark>

①HIGH: Gain increased from 6dB up to 34dB

②MIDDLE: Gain increased from 6dB up to 30dB

③LOW: Gain increased from 6dB up to 18dB

④OFF: BLC function is disabled

6.4. MOTION DET   OFF/ON

<< Mask Colour   Joystick Left/Right to select. Press IRIS OPEN to enter

```
┌ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ┐
│           MD SETUP                        │
├─▶ DISP  ALARM           OFF               │
│    AREA  SEL            AREA1              │
│    AREA  MODE            ON               │
│    TOP          5 – – – – – –│– – –        │
│    BOTTOM    25 – – – – – – – –│– –        │
│    LEFT        20 – – – – – – –│– – –      │
│    RIGHT       40 – – – – – –│– – –        │
│    END                       │            │
└ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ┘
```

① DISP ALARM   ON/OFF   Joystick Left/Right to select

② AREA SEL   AREA1/ AREA2/ AREA3/ AREA4   Joystick Left/Right to select

③ AREA MODE   ON/OFF   Joystick Left/Right to select

④ TOP   0~255   Joystick Left/Right to select

⑤ TOP   0~255   Joystick Left/Right to select

⑥ TOP   0~255   Joystick Left/Right to select

⑦ TOP   0~255   Joystick Left/Right to select

                                                       Select "END", Press IRIS OPEN to Exit

6.5. FOCUS   Press IRIS OPEN or Joystick Left/Right to enter

① MODE   AUTO/ONE-PUSH/MANUAL   Joystick Left/Right to select

AUTO   The Camera focus is adjusted automatically while continuously monitoring the scene.

ONE-PUSH   Only if the camera is not moving, it turns into manual mode. Same controls as manual.

MANUAL   The user can manually adjust the focus.

② ZOOM TRK   The Focus function is executed when the Zoom function is ON. The Zoom-In follows the zoom

   speed.

③ Zoom Speed   FAST/SLOW   Joystick Left/right to select

④ D-ZOOM   OFF/2X/10X   Joystick Left/Right to select

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⑤ DISP ZOOM MAG   OFF/ON   Display the Zoom In/Out magnification level.

⑥ ZOOM POS INIT   OFF/ON   Initiate the Zoom position   Joystick Left/Right to select

⑦ LENS INIT   Initiate the Lens to the default setting Press IRIS OPEN to confirm

6.6. EXPOSURE   Press IRIS OPEN or Joystick Left/Right to enter

① BRIGHTNESS   0~100   Joystick Left/Right to select

② IRIS   Auto/Manual   Joystick Left/Right to select

③ SHUTTER   Manual/A.FLK   Joystick Left/Right to select

Manual**:** Shutter speed can be adjusted manually from 1/50 to 1/120000 of a second

A.FLK**:** Use this mode when the screen flickers because of inconsistent lighting frequencies.

④ AGC   NORMAL/HIGH/OFF   Joystick Left/Right to select

⑤ SSNR   OFF/LOW/MIDDLE/HIGH   Joystick Left/Right to select

⑥ SENS-UP   OFF/AUTO   Joystick Left/Right to select

Manually adjustable, from x2-x128, when in AUTO mode

6.7. SPECIAL SETTING   Press IRIS OPEN or Joystick Left/Right to enter

```
    SPECIAL SETUP

USER PRESET     ON
PRIVACY         ON
DAY/NIGHT
AUTO1
SYNC            INT
COMM ADJ
IMAGE ADJ
```

Joystick Left/Right to select

6.8. RESET

Press IRIS OPEN to initiate the Camera reset.

6.9. EXIT

Press IRIS CLOSE to EXIT the Camera Menu

7.Function Programming

<<Special Function Programming   Press IRIS OPEN or Joystick Left/Right to enter

7.1.PTZ Tour (Pattern)

<<Pan/Tilt/Zoom Tour programming   Press IRIS OPEN or Joystick Left/Right to enter

① Number   (1 ~3)
  <<PTZ Tour number   Joystick Left/Right to select

② Name   _ _ _ _ _ _ _
  <<Edit PTZ name   Press IRIS OPEN or Joystick Left/Right to enter

```
    _ _ _ _ _ _ _
    ↑
    IRIS CLOSE when done
```
Press IRIS OPEN to enter

```
0 1 2 3 4 5 6 7 8 9 A B C D E F G H I J
K L M N
    ↑
   O P Q R S T U V W X Y Z  _

IRIS OPEN when done
IRIS CLOSE to exit
```
<<Move Joystick Left/Right, when programming,
to select Preset and press IRIS OPEN to confirm.
Joystick Left/Right to select (0~~9 or A~~Z). Press
IRIS OPEN to confirm. Press IRIS CLOSE to exit
to upper level menu when programming is
complete.

③ Program a Tour

<<Enter PTZ Tour programming   Press IRIS OPEN or Joystick Left/Right to enter

```
    IRIS OPEN to begin
```
<<Press IRIS OPEN to confirm and start programming.

```
    IRIS CLOSE when done
```
<<Press IRIS CLOSE to exit programming and return to upper
level menu.

④ Run a Tour

<<Run Pan/Tilt/Zoom Tour (Pattern)   Press IRIS OPEN or Joystick Left/Right to enter

Joystick Left/Right to select an already programmed tour; from the options. Joystick Up/Down to select the
Run a Tour menu. Press IRIS OPEN or Joystick Left/Right to run the selected tour. Move the Joystick in any
direction to cancel the tour and return to the previous menu.

⑤ Delete a Tour

<<Delete PTZ Tour   Press IRIS OPEN or Joystick Left/Right to enter

Joystick Left/Right to select a tour from the options.Joystick Up/Down to select the Delete a Tour menu.

                                                          Press IRIS OPEN or Joystick Left/Right to enter

```
┌─────────────────────────────────┐
│                                 │
│   Are you sure you want to do this?      << Reminder: Are you sure you want to do this?
│         IRIS OPEN to confirm             Press IRIS OPEN to confirm.
│         IRIS CLOSE to cancel             Press IRIS CLOSE to EXIT and return to upper level menu.
│                                 │
└─────────────────────────────────┘
```

⑥Name Display   ON/OFF
    <<PTZ Tour name display   ON/OFF   Joystick Left/Right to select

                                              Press IRIS CLOSE to EXIT

7.2.Program Vector Scan

<< Program Vector Scan   Press IRIS OPEN or Joystick Left/Right to enter

① Number   1
<<Vector Scan Number (1 ~ 6)   Joystick Left/Right to select

② Program a Vector Scan
    <<Vector Scan programming   Press IRIS OPEN or Joystick Left/Right to enter

```
┌─────────────────────────────────┐
│       Program Vector Scan 1     │
│                                 │
│    name    num    v    dwell    │       <<Move the Joystick arbitrarily, to move the
│  1                              │       cursor, and stop the cursor at the point of
│     –      –      –     –       │       programming. Press IRIS OPEN to enter the
│  2                              │       selection.
│     –      –      –     –       │
│  3                              │
│     –      –      –     –       │
│  ┊                              │
│  16                             │
│       IRIS CLOSE when done      │
│                                 │
└─────────────────────────────────┘
```

```
Function name    name  ──►  ┌──────────────┐
                            │     P/V/T    │
                            │              │
                            └──────────────┘
```

Function number **num** ➔

```
          1~255
          255
      ↑
          0123456789
      IRIS CLOSE when done
```

<<Joystick Left/Right when programming to select a Preset, and then press IRIS OPEN to confirm. Joystick Left/Right to select (0~9). Press IRIS OPEN to confirm. Press IRIS CLOSE to EXIT, or return to upper level menu when programming is complete.

Velocity selection **v** ➔

```
          1~9
```

<< Press IRIS OPEN continuously to select

Dwell time **dwell** ➔

```
          1~99
      55
      ↑
          0123456789
      IRIS CLOSE when done
```

<<Joystick Left/Right when programming to select a Preset and press IRIS OPEN to confirm. Joystick Left/Right to select (0~9). Press IRIS OPEN to confirm. Press IRIS CLOSE to exit or return to upper level menu when programming is complete.

③ Run a Vector Scan

<<Run Vector Scan   Press IRIS OPEN or Joystick Left/Right to enter

Joystick Left/Right to select an existing Vector Scan from the menu. Joystick Up/Down to select the Run a Vector Scan. Press IRIS OPEN or Joystick Left/Right to run selected Vector Scan track. Move the Joystick in any direction to cancel it and display the Program Vector Scan menu again.

④ Delete a Vector Scan

<<Delete Vector Scan   Press IRIS OPEN or Joystick Left/Right to enter

Joystick Left/Right to select an existing Vector Scan track from the menu. Joystick Up/Down to select the Delete a Vector Scan menu. Press IRIS OPEN or Joystick Left/Right to make your selection. Press IRIS OPEN to confirm or IRIS CLOSE to cancel your selection and return to previous menu.

```
Are you sure you want to do
this?
IRIS OPEN to confirm
IRIS CLOSE to cancel
```

<< Reminder: Are you sure you want to do this?
Press IRIS OPEN to confirm.
Press IRIS CLOSE to exit and return to upper level menu.

Press IRIS CLOSE to EXIT

7.3. Alarm Program

<< Alarm Programming <mark>Press IRIS OPEN or Joystick Left/Right to enter</mark>

Functional Description: The Dome has a total of 8 alarm input channels and 2 alarm output channels, with a flexible programming structure.

① Alarm In Programming <mark>Press IRIS OPEN or Joystick Left/Right to enter</mark>

A) Channel Number 1
  <<Channel number (1～8) <mark>Joystick Left/Right to select</mark>

B) Sensor Type NO
  << Sensor Type NO/NC <mark>Joystick Left/Right to select</mark>

C) Operation Time
  << Operation Time <mark>Press IRIS OPEN or Joystick Left/Right to enter</mark>

  a) Mode Eachday
    << Mode <mark>Joystick Left/Right to select</mark>
      Eachday / Workday / Weekend / Mon / Tue / Wed / Thurs / Fri/Sat / Sun

  b) Enable Time Setup
    << Enable Time Setup <mark>Press IRIS OPEN or Joystick Left/Right to enter</mark>
      Default Time: 00:00:00 Refer to *Numeric Input Steps Instructions* for details.

```
┌──────────────────────────┐     ┌──────────────────────────┐
│    Enable Time Setup      │     │    Disable Time Setup     │
│ ►1 Hour         0         │     │ ►1 Hour         23        │
│  2 Minute       0         │     │  2 Minute       59        │
│  3 Second       0         │     │  3 Second       59        │
│    IRIS CLOSE to exit     │     │    IRIS CLOSE to exit     │
└──────────────────────────┘     └──────────────────────────┘
```

  c) Disable Time Setup
    << Disable Time Setup <mark>Press IRIS OPEN or Joystick Left/Right to enter</mark>
      Default time: 23:59:59 Refer to *Numeric Input Steps Instructions* for details.
                                  <mark>Press IRIS CLOSE to EXIT</mark>

D) Label Edit —————
  << Edit Label <mark>Press IRIS OPEN or Joystick Left/Right to enter</mark>
      Refer to *Character Input Steps Instructions* for details

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E) Label Display   OFF

<< Label Display   ON/OFF   Joystick Left/Right to select

F) Properties Setup

<< Properties Setup   Press IRIS OPEN or Joystick Left/Right to enter

 a) Property   Preset

   << Property   Joystick Left/Right to select

   Preset / Vector / Tour / PanScan / DayNight / PicStill

 b) Number   1

   << Number   (Default:1)   Joystick Left/Right to select

   Refer to *Numeric Input Steps Instructions* for details.

    Note：Effective only for Preset / Vector Scan / PTZ Tour

 c) Dwell Time   60

   <<Dwell time   Default: 60   Press IRIS OPEN or Joystick Left/Right to enter

   Refer to *Numeric Input Steps Instructions* for details.

          Press IRIS CLOSE to EXIT

 G) Priority   1

   << Priority   (1～8)   Joystick Left/Right to select

 H) Channel Enable   OFF

   << Channel Enable   ON/OFF   Joystick Left/Right to select

  ※ If set to ON, the dome will take the actions corresponding to the user settings of this channel when an

   alarm situation occurs.

  ※ If set to OFF, this channel will make no response no matter if there's an alarm situation or not.

  Note:

  ※ Alarm has the top priority from all the non-functional setting status'.

    (Including manual and automatically executed cruising or scanning functions)

  ※ User who have the operation authority can disable the alarm.

  Situation 1. If an alarm occurs when user is manually scanning, the manual scan is stopped for

          the alarm execution. It enters the next alarmround only when the alarm is disabled.

  Situation 2. It disables the alarm during non-operation time.

  Situation 3. When alarm inputs of the same level of priority occur, the lowest numbered channel is

          executed first.

          Press IRIS CLOSE to EXIT

② Alarm Out Programming   Press IRIS OPEN or Joystick Left/Right to enter

 A) Channel Number   1

 << Channel Number   (1～2)   Joystick Left/Right to select

B) Edit Label ————

    << Label Edit   `Press IRIS OPEN or Joystick Left/Right to enter`

      Refer to *Character Input Steps Instructions* for details

C) Label Display   OFF

    << Label Display   ON/OFF   `Joystick Left/Right to select`

D) Trigger   Alarm in 1

    << Trigger   Alarm in 1-8   `Joystick Left/Right to select`

E) Enable   OFF

    << Enable   ON/OFF   `Joystick Left/Right to select`

F) Dwell Time   60

    << Dwell time   Default: 60   `Press OPEN or Joystick Left/Right to enter`

        Refer to *Numeric Input Steps Instructions* for details.

                             `Press IRIS CLOSE to EXIT`

7.4.Mask Zone

    <<Mask Setting   `Reserved`
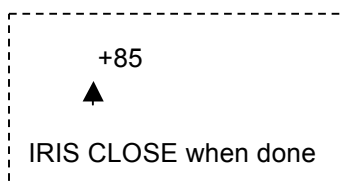
7.5. Temperature Programming   `Press IRIS OPEN or Joystick Left/Right to enter`

    ①   << Display   ON/OFF   `Joystick Left/Right to select`

    ②   << Power Off Temperature   `Press IRIS OPEN or Joystick Left/Right to enter`

```
+85
▲

IRIS CLOSE when done
```

`Press IRIS OPEN continuously to choose "+"or "-"`

```
0～99

85
▲

0123456789
```
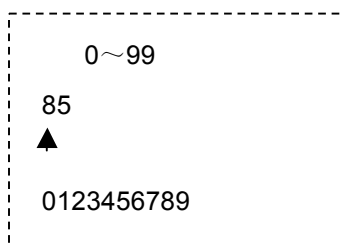
`Refer to Numeric Input Steps Instructions for details`

                             `Press IRIS CLOSE to exit`

7.6.   << Mask Setting   `Reserved`

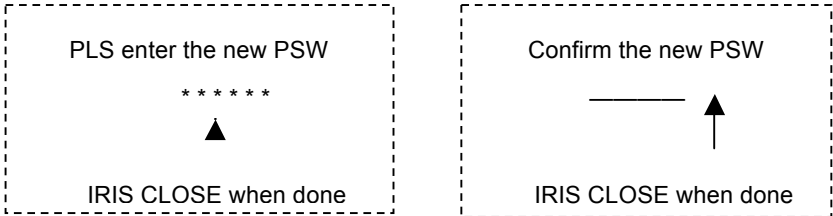## 8. User Management   Press IRIS OPEN or Joystick Left/Right to enter

Note: This authority only belongs to the Administrator.

8.1 Master Setup

<<Master Setup   Press IRIS OPEN or Joystick Left/Right to enter

① <<Edit Password   Press IRIS OPEN or Joystick Left/Right to enter

Refer to *Numeric Input Steps Instructions* to set a new password. If the setup is correct, the screen displays the message *Done!*. Otherwise, the message *Error!* is displayed.

```
┌ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ┐      ┌ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ┐
│   PLS enter the new PSW   │      │    Confirm the new PSW    │
│                           │      │                           │
│         * * * * * *       │      │        ───────   ↑        │
│             ▲             │      │                           │
│                           │      │                           │
│   IRIS CLOSE when done    │      │    IRIS CLOSE when done    │
└ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ┘      └ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ┘
```

② << Operation Lock   ON/OFF   Joystick Left/Right to select

③ << Wait   Press IRIS OPEN or Joystick Left/Right to enter

Refer to *Numeric Input Steps Instructions* to set up time.

Note：a) If the operation Lock function is enabled and no control command is received within the specified waiting time, the dome will lock up the operation until a successful re-login.

b) Operational Lock of all-level users is only effective to its own level.

Press IRIS CLOSE to EXIT

8.2 Operator Setup

<<Operator Setup   Press IRIS OPEN or Joystick Left/Right to enter

Refer to *Master Setup* section for details.

8.3 Authorisation

<<Authorisation   Press IRIS OPEN or Joystick Left/Right to enter

Note：This option is for the configuring of general users' operating authorities by the administrator. If any functions are set as ON, it indicates the function is open to general users. Otherwise the screen shows "No Authorisation"

① Program Preset   OFF   << Program Preset   ON/OFF   Joystick Left/Right to select

② Call Preset	ON	<< Call Preset	ON/OFF	Joystick Left/Right to select
③ Camera Setup	OFF	<< Camera Setup	ON/OFF	Joystick Left/Right to select
④ Program PTZ Tour	OFF	<< Program PTZ Tour	ON/OFF	Joystick Left/Right to select
⑤ Run PTZ Tour	ON	<< Run PTZ Tour	ON/OFF	Joystick Left/right to select
⑥ Program VectorScan	OFF	<< Program VectorScan	ON/OFF	Joystick Left/Right to select
⑦ Run VectorScan	ON	<< Run VectorScan	ON/OFF	Joystick Left/Right to select
⑧ Program Date/Time	OFF	<< Program Date/Time	ON/OFF	Joystick Left/Right to select
⑨ Program Alarm	OFF	<< Program Alarm	ON/OFF	Joystick Left/Right to select
⑩ Operate Dome Menu	ON	<< Operate Dome Menu	ON/OFF	Joystick Left/Right to select
				Press IRIS CLOSE to EXIT

8.4 Password Logon

<<Password Logon ON/OFF　　　　　　　　Joystick Left/Right to select

9. Date/Time

<<Date/Time Setup　　　　　　　　Press IRIS OPEN or Joystick Left/Right to enter

　　Note：This is used for management of the system date&time. You can program the assignment of the operating time of the dome via this option.

9.1 Date/Time Setup

<< Date/Time Setup　　　　　　　　Press IRIS OPEN or Joystick Left/Right to enter

　　Note：This option is used by users to modify date and time, as well as to set the date and time displayed.

① Clock Display	ON	<< Clock Display	ON/OFF	Joystick Left/Right to select
② Date Display	ON	<< Date Display	ON/OFF	Joystick Left/Right to select
③ Display Mode	Y/M/D	<< Display Mode Y/M/D D/M/Y		Joystick Left/Right to select
④ Date/Time Modify		<< Date/Time Modify		Press IRIS OPEN or Joystick Left/Right to enter

Refer to *Numeric Input Steps Instructions* to set date/time.

```
  ┌ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ┐
  |    Date/Time Modify    |
  | ▶ 1 Year        11     |
  |   2 Month       3      |
  |   3 Date        5      |
  |   4 Day         Sat    |
  |   5 Hour        17     |
  |   6 Minute      53     |
  |   7 Second      43     |
  |   IRIS CLOSE to exit   |
  └ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ┘
```

Note：　Year：2000～2099 (00～99)

Month：1～12

Date：1～(28/29/30/31)

Day：Mon/Tue/Wed/Thurs/Fri/Sat/Sun

Hour：0～23

Minute：0～59

Second：0～59

　　Press IRIS CLOSE to EXIT

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9.2 Assignment

<< Assignment   Press IRIS OPEN or Joystick Left/Right to enter
   Note：You can perform 8 Assignment options, to be executed automatically for the dome system.Namely, to execute the dome or camera functions automatically at the programmed designated time.
If an executing task is terminated by manual operation, it restarts if a manual operation is not performed within 10 seconds after stopping.

① << Number   1～8   Joystick Left/Right to select
   Note：Assignment Priority: 1-8 (High-Low)

② << Program   Press IRIS OPEN or Joystick Left/Right to enter

    A)   << Property Preset/Vector/Tour/PanScan/DayNight   Joystick Left/Right to select

    B)   << Number   Press IRIS OPEN or Joystick Left/Right to enter
     Refer to *Numeric Input Steps Instructions* to set number
    Note：Number is invalid for the PanScan and DayNight optional functions. It's used to select certain specific preset points and the track when the Preset/Vector/Tour is being selected by a specific assignment.

    C)   << Mode   Eachday   Joystick Left/Right to select
     Eachday / Workday / Weekend / Mon / Tue / Wed / Thurs / Fri / Sat / Sun

    D)   << Start Time Setup   Press IRIS OPEN or Joystick Left/Right to enter
     Refer to *Numeric Input Steps Instructions* to set start time

```
┌──────────────────────────┐        ┌──────────────────────────┐
│    Start Time Setup       │        │    End Time Setup         │
│ ▶                         │        │ ▶                         │
│  1 Hour         0         │        │  1 Hour         23        │
│                           │        │                           │
│  2 Minutes      0         │        │  2 Minute       59        │
│                           │        │                           │
│  3 Seconds      0         │        │  3 Second       59        │
└──────────────────────────┘        └──────────────────────────┘
```

    E)   << End time Setup   Press IRIS OPEN or Joystick Left/Right to enter
     Refer to *Numeric Input Steps Instructions* to set end time
    Note：If the execution time for the assignment from start to end is less than 3 seconds, this task will always be executed.   Press IRIS CLOSE to EXIT

③   << Enable   ON/OFF   Joystick Left/Right to select
   Note: If set to ON, the assignment is executed at the designated time. Otherwise,this assignment is not executed, but all data is stored.   Press IRIS CLOSE to EXIT

9.3 Power Timer

<< Power Timer Setup   Press IRIS OPEN or Joystick Left/Right to enter

Note: A.You can perform a timed startup and shutdown for the dome.

       B.The interval period between startup and shutdown time is the System Startup Operating Status. While the shutdown time to startup time is the System Shutdown Status.

      C.Make sure that startup time is earlier than shutdown time, otherwise the system will remain in the System Shutdown status.

    D.The system will wake for startup once a control command is received. If no control command is received within 60 seconds (in non-menu status), it re-enters shutdown status.

    E.The priority of Assignment is higher than that of the Power Timer. Namely, assignment will be executed first no matter it is under startup or shutdown status, and the Power Timer can only be entered after the execution of Assignment has been completed, while other non-Assignment functional operations or executions will be automatically discontinued before Power Timer is executed.

①   << Mode Off   Joystick Left/Right to select

      Off / Eachday / Workday / Weekend / Mon / Tue / Wed / Thurs / Fri / Sat / Sun

②   << Power On Setup   Press IRIS OPEN or Joystick Left/Right to enter

     Refer to *Numeric Input Steps Instructions* to set power on time.

```
    +----------------------------+        +----------------------------+
    |      Power On Setup        |        |      Power Off Setup       |
    | ▶ 1 Hour            0      |        | ▶ 1 Hour            23     |
    |   2 Minute          0      |        |   2 Minute          59     |
    |   3 Second          0      |        |   3 Second          59     |
    |      IRIS CLOSE to exit    |        |      IRIS CLOSE to exit    |
    +----------------------------+        +----------------------------+
```

③   << Power Off Setup   Press IRIS OPEN or Joystick Left/Right to enter

     Refer to *Numeric Input Steps Instructions* to set power off time.

Press IRIS CLOSE to exit

Chapter 5 Shortcut Operation Table

1. System Preset Operation Table

System Preset Operation Table	
Preset 80 (Call 80)	Run PTZ Tour 1
Preset 81 (Call 81)	Run PTZ Tour 2
Preset 82 (Call 82)	Run PTZ Tour 3
Preset 83 (Call 83)	Start VectorScan 1
Preset 84 (Call 84)	Start VectorScan 2
Preset 85 (Call 85)	Start VectorScan 3
Preset 86 (Call 86)	Start VectorScan 4
Preset 87 (Call 87)	Start VectorScan 5
Preset 88 (Call 88)	Start VectorScan 6
Preset 89 (Call 89)	Joystick Freeze and Unfreeze Video
Preset 90/95 (Call 90/95)	Setup the Menus and Camera
Preset 91 (Call 91)	Invokes the Flashback Function
Preset 92 (Call 92)	Administrator Logon
Preset 93 (Call 93)	Operator Logon
Preset 94 (Call 94)	Restart Dome Power Supply (Set Preset 94 as the power supply for shutting down the dome)

Preset point setting: Method 1: First input "PRESET", and then input the number of the preset point. Press "ENTER" to complete (PRESET + No. + ENTER).
Method 2: First input the number of preset point. Then press "SHOT".
Press "ON" to complete (Preset No. + Shot + ON).

Call Preset point: Method 1: First input "CALL". Then Input the number of the preset point.
Press "ENTER" to complete (Call + Preset No. + ENTER).
Method 2: First input the number of preset point. Then press "SHOT".
Press "ACK" to complete (Preset No. + Shot + ACK).

Clear Preset point: Method 1: First input "PRESET". Then input the number of preset point.
Press "OFF" in the end (PRESET + Preset No. +OFF)
Method 2: First input the preset No. Then press "SHOT".
Press "OFF" to complete (Preset No. + SHOT + OFF).

2. User Logon Operation

Invoke Preset 92 for the Administrator logon.

Invoke Preset 93 for the Operator logon.

Factory Set Password: Administrator: 000000   Operator: 111111

Note: If the dome needs to be returned to the factory the Administrator password will be reset to default.

3. OSD Menu: Enter **"**90+PRE+Enter" to access the PTZ's OSD Menu.

4. Description of the Tour Function:

a) When entering "**PRESET+51+Enter**" the device enables the system default Tour. The device automatically scans, point by point, from Preset No 1 to Preset No.16. If any of the positions have not been preset or been cleared Tour does not scan them.

b) Dwell time at each preset position is 2 seconds.

5. Description of the Swing Function:

a) The Dome automatically Swings between two specified Preset positions.

b) Users can set the start point with "PRESET+52+Enter" and the end point with "PRESET+53+Enter".

c) Swing speed set: The above sets a swing speed of three seconds, then "CALL+51+Enter" saves the Swing speed. Use"CALL+52+Enter" to enable the Swing.

d) Dwell time of the swing at the "start" and "end point" is 2 seconds.

6. Intelligent Manually Pan Continuous Scan:

If you use the joystick to manually pan, for a minimum of 3 seconds, then press "CALL+101+Enter" the dome remembers the direction of the manual pan and automatically pans continuously 360-degrees in the same direction.

Chapter 6 Main Technical Parameters

Dome Address	1-255
Pan Rotate Range	360 degree continous rotation
Tilt Rotate Range	0-90 degrees continous rotation
Pan Manual Speed	0-300 degrees/second
Tilt Manual Speed	0-120 degrees/second
Call Preset Position	400 degrees/second
Accuracy	±0.1 degree
Preset Positions	255
Languages	English/Spanish etc.
Function Information Display	Dome Name, Preset Name, PTZ Name, Sector Name Camera Orientation, Alarm Note, Time / Temperature Display
Intelligent Magnification Scanning Speed Match	Manual scanning speed changes along with automatic regulation of change in magnification (by inverse ratio)
Automatic Flip	10-degree forward tracking after 180-degree automatic flip when the dome reaches vertical 90-degree point.
Intelligent 3D Curise	Adjustable speed; vertical track can be changed immediately
Vector Scan	8 groups
PTZ Tour	6 tours; each 120 seconds
Sector Operation Dispay	8 areas
Privacy Zones	8 zones (dependent on camera module)
Alarms	8 input channels and 2 output channels
Assignment Programming	8 options
User Account Management	Strong user management mechanism
Timed Startup / Shutdown	Random programming
Control Mode	RS-485 Bus
Communciation Baudrate	2400 / 4800 / 9600 / 19200bps
Power Supply	AC24V (+/-4V) @ 50Hz, 50W

MEMO