Keyboard controller Operation Manual

Contents

I. Description of performance

1. Brief introduction

The keyboard controller can control high speed dome cameras, slow dome camera ,zoom camera , decoders, etc. The electric outlet between the controlling keyboard and the receiving terminal is EIA/RS – 485, which enables the keyboard to control as many as 128 dome cameras or other terminals within a maximal communication range of 1.5 Km.

2. Technical data

1. Baud rate: 1200bps, 2400bps, 4800bps, 9600bps, 19200pbs, 38400pbs
2. Protocol：Pelco-D, Pelco-P, SAMSUNG, AD, PANASONIC
3. Communication : RS-485
4. Power input :   DC 12V/500mA
5. Communication distance: max 1500m
6. Can control max 128 speed domes
7. Password setup function
8. Ambient Temperature: 0℃~60℃
9. Relative Humidity : 90%RH

10. Dimension: 205mm＊168mm＊48 mm

II. Description of Main Functions

The main functions of the keyboard include:

1. The keyboard output adopts photoelectric insulated 485 control, which
   provides strong anti-jamming and long-range transmission.

2. The range for dome camera or decoder address setup: 1~255.

3. Variable-speed operation can be applied to the built-in dome of the high speed
   dome camera.

4. Pre-set positions can be setup and previewed in the high speed dome camera.

5. Up to four tour routes can be setup and previewed in the high speed dome
   camera, with each tour having a maximum of 16 pre-set positions, dwell time and
   speed for each pre-set positions programmable.

6. The high speed dome camera can be manually / automatically controlled.

7. Lens zoom ratio, focus and iris can be manually controlled.

8. More than one terminals, such as dome cameras and decoders, can be controlled.

# III. Installation and Connection

Attention: Please read the Manual carefully before installation and connection, for any incorrect cable connection may cause permanent damages to the units. Make sure power is switched off before connection and all communication cables are screened twisted pair. All communication cables should avoid high-voltage cables or other jamming sources.

Figure for Keyboard Connection
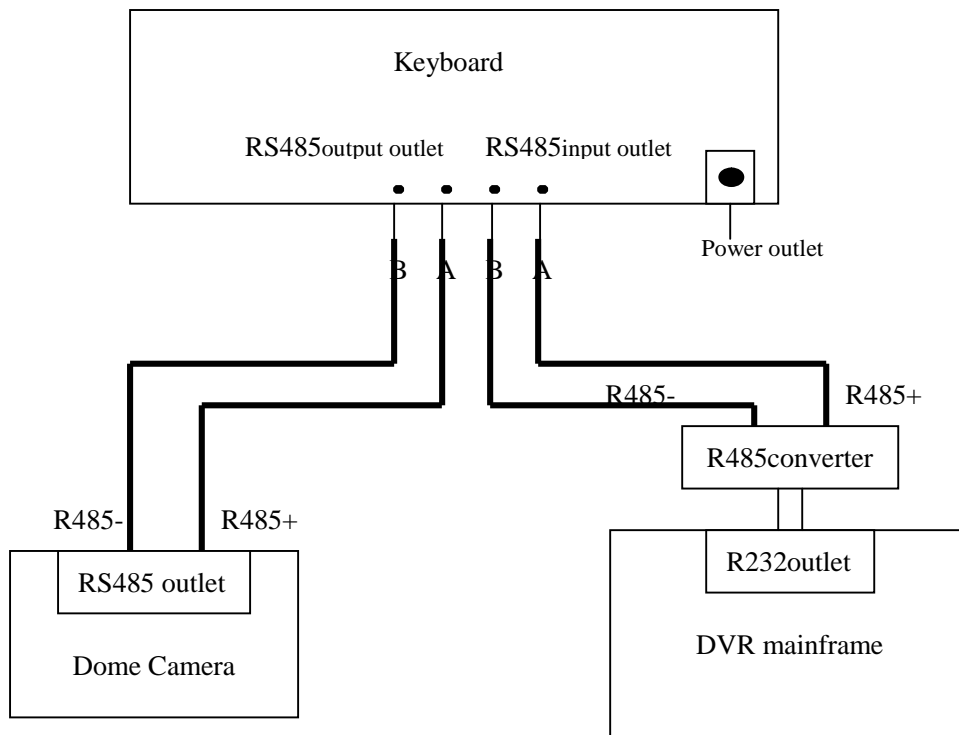
IV. Description of Keyboard Panel

1. Front Panel
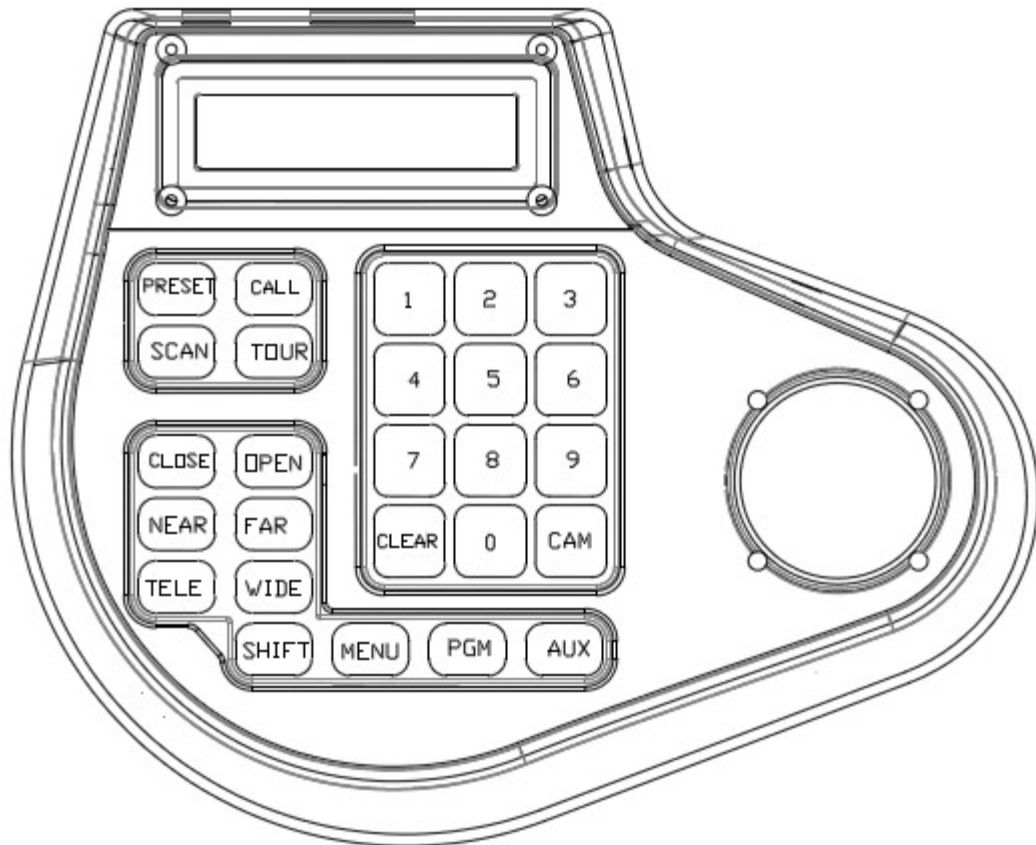
On the front panel of the keyboard are variable-speed controlling joystick, keys and LED digital displayer. The LED digital displayer shows system and operation information. The controlling joystick controls the variable-velocity movement of the dome, and manually setup positions.

2. Back Panel Figure

RS485 OUTPUT   POWER

B A B A   -极   +极
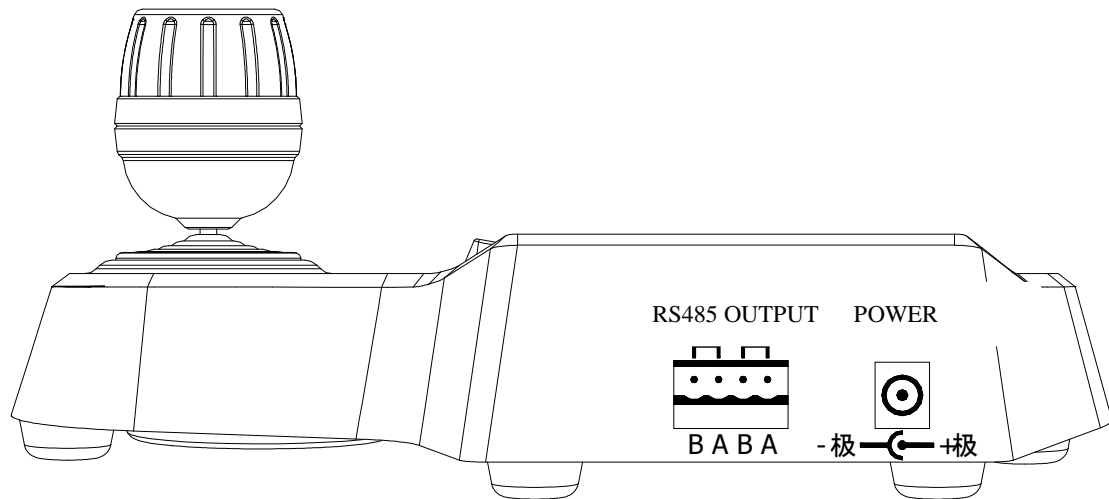
Power supply outlet: connecting external DC12V power.
Communication output: RS-485 output output connecting .

V. LCD display and key mean

1.This display is the camera ID, Protocol ,Baud Rate status

```
┌─────────────────────────────────┐
│  PELCO  D              CAM=001   │
│  BR: 2400                 000    │
└─────────────────────────────────┘
```

- ☐ CAM=001   :   camera address

- ☐ PROTOCOL:PELCO-D :   protocol is pelco D

- ☐ BAUD：2400   :   baud rate is 2400bps
- ☐ INPUTS：000   :   input number

2. 0~9 Number

Used for setting the camera ID, Preset No. and   modify the keyboard parameters.
When SHIFT button is in effect, it will be light. 2,4,6,8 can also be used to move the
PT unit UP (2), DOWN(8), LEFT(4) and RIGHT(6).

3.CAM
Enter the ID (0-255) by the number key then press CAM key : | Number | +
| CAM | , The number will be displayed after item CAM on the LCD.
change DVR number when control DVR state .

4. CLEAR
Press key CLEAR, the Number input area will reset.

5.CLOSE/OPEN
Under Manual mode, pressing key CLOSE and OPEN can control the IRIS.

6. NEAR/FAR
Under Manual mode, pressing key NEAR and FAR can control the Focus.

7.TELE/WIDE
Lens zoom for close-up image or lens zoom for panoramic image.

8. JOYSTICK
It is 2D used to move the speed dome or PTZ unit on pan or tilt direction. The moving
speed increases as the offset.

9. MENU
Press key MENU will open speed dome camera mean., same Press | 95 | +

PRESET . Press MENU, the LED will be light and into my factory speed dome menu .

10.TOUR

Press key TOUR mean is Press key 76 + CALL ,Press key Tour, the LED will be light and star to tour the multi preset position
This press is EDIT function when control DVR state.

11.SCAN (360°pan auto scan)

Press key TOUR mean is Press key 99 + CALL , Press key SCAN. The LED gets turned on, and auto scan begins.
Press key SCAN again. The LED gets turned off, and auto scan stop. Move the Joystick to stop Auto Scan function.
This press is **FAN** auto scan function when control DVR state.

12.PRESET

Set up the Presets: Move the joystick, and adjust the Lens to select the surveillance position you need. Input No. and then press [PRESET] key. i.e. N + PRESET
Call the presets: Input the preset number, and press [CALL] key. i.e. N + CALL
Clear the presets: Input the preset number, and press [PRSET] key over 2 seconds.
i.e. N + keep to push PRESET over 2 seconds.
This press is **powe**r function when control DVR state.

13.CALL

This is function for search the preset position of the speed dome or receiver. Entry the Preset No. in the Number area, and press key CALL to call it. i.e. N + CALL
If succeed, the number input area will reset automatically.

14. SHIFT

Press key SHIFT, it gets turned on, and SHIFT is in effect.
Press key SHIFT again, it gets turned off, and SHIFT is off no effect.

15.PGM

If the above action can succeed, the number input area will reset automatically.

16.SHIFT+MENU

into keyboard menu set up.

17.AUX

AUX function 1. DVR play or PAN scan when control DVR state .

18.clear PRESET:

Number + SHIFT + CLEAR

VI. Keyboard Set

1.The keyboard can setup different Baud rates and protocols for every camera. When the keyboard switch dome camera/decoder addresses, it will output corresponding controlling instructions based on the setup protocols and Baud rates.

<div align="center">Shift + menu into keyboard</div>

```
PELCO  D              CAM=001
BR: 2400                  000
```

- [ ] CAM=001   : camera address

- [ ] PELCO-D   :   protocol is pelco D

- [ ] 2400   : baud rate is 2400bps
- [ ] 000   : input number

PROTOCOL : PELCO-D、 PELCO-P、SAMSUNG、AD、PANASONIC

can change.

BAUD RATE: 1200、2400、4800、9600、19200、38400 can change.

2. Password set

```
PASSWORD      ENABLE
NO
```

PASSWORD ENABLE: NO   : password have not used.

PASSWORD ENABLE: YES : display"OK"password have used.

PASSWORD : **** : First password is 0000, user can set new

password ,password is 4 number . setting later press [PGM] is save

and exit .

3. Keyboard Control mode

```
MODE        →2D
INITIAL:      NO
```

MODE   2D: only keyboard control dome .

MODE   2D-M: keyboard and DVR parallel connection control dome .

4. keyboard initial

```
MODE        2D
INITIAL:      →NO
```

INITIAL :   NO: the keyboard initial is close.

INITIAL :   YES→OK: the keyboard initial is open .initial later the

keyboard setting is address   1 , baud rate   2400bps ;, protocol

pelco D .

VII. Keyboard hotkey set up

- Input 12,and then press key **PGM** to select Baud Rate to **1200**bps.
- Input 24,and then press key **PGM** to select Baud Rate to **2400**bps.
- Input 48,and then press key **PGM** to select Baud Rate to **4800**bps.
- Input 96,and then press key **PGM** to select Baud Rate to **9600**bps**.**
- Input 192,and then press key **PGM** to select Baud Rate to **19200**bps**.**
- Input 384,and then press key **PGM** to select Baud Rate to **38400**bps**.**
- Input 44,and then press key **PGM** to select **Pelco –D** protocol.
- Input 50,and then press key **PGM** to select **Pelco –P** protocol.