



JOYSTICK KEYBOARD

INSTALLATION & OPERATION MANUAL

(English Version)



TV-620K

Before using, please read this manual carefully

Thanks very much for choosing our products, please contact us anytime if you have any questions or requirements.

This manual may contain technical inaccuracy, product function inconsistent with operation or literal error. The content of this manual will be updated with the enhancement of the products function and the product will also be improved or updated termly, the updated content will be added to the new version of the manual without notice.

Catalog

Chapter 1 Brief Introduction	2
1.1 Appearance.....	2
1.2 Function Explanation.....	2
Chapter 2 Speed dome installation	2
2.1 Equipments Check.....	2
2.2 Installation.....	3
Chapter 3 Technical Specification	3
3.1 Basic Index.....	3
3.2 Electrical Index.....	3
3.3 Controlling Mode.....	3
Chapter 4 OSD Operation	4
4.1 Operation Introduction.....	4
4.2 Main Menu.....	5
4.2.1 Main Control Interface.....	5
4.2.2 Keyboard Menu	5

Chapter 1 Brief Introduction

1.1 Appearance

1.2 Function Explanation

1.1 Appearance



1.2 Function Explanation

1.2.1 Main features

- Can control the rotate, zoom, iris, focus and camera parameter setting of the camera or pan& tilt.
- Protocol: PELCO P/D , VISCA protocol
- LCD display both Chinese/English menu, with voice prompt when pressing buttons
- 3-axis joystick, easy to operate
- 2 dimension button control, can accurate to the speed of every state
- Press button to choose to define usual special functions
- Band rate: 2400/ 4800/ 9600BIT/S
- Adopting RS-485,RS422 and RS232 multi-interfaces, maximally connect 256 pcs integrated high speed dome and camera
- Maximal Communication distance: 1200M (0.5MM twisted-pair)

Chapter 2 Speed Dome Installation

2.1 Equipments Check

2.2 Installation

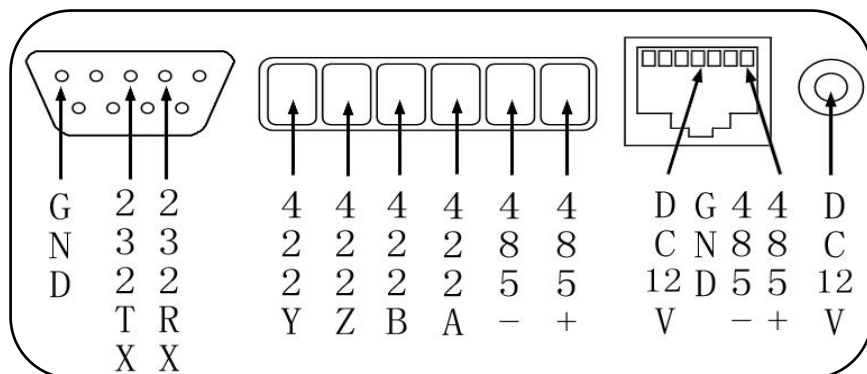
2.1 Equipments Check

Please check the equipments in the packing case to see if they are in good condition and all parts are ready.

Three-axis control keyboard.....	1
8 cores Flat data cable.....	1
KBD KIT.....	1
DC12V Power Supply.....	1
Manual.....	1
Qualification.....	1

2.2 Installation

- Power Supply Interface: connect DC12V/500mA Power Supply
- RJ45 Interface; 1 pin: RS485+; 2 pin: RS485-; 3 pin: GND ; 4 pin : DC12V+.
- RS485、422 interfaces from right to left are: 485+、485-、422A、422B、422Z、422Y
- RS232 adopts the standard wiring.



Chapter 3 Technical Specification

3.1 Basic Index

3.2 Electrical Index

3.3 Controlling Mode

3.1 Basic Index

- Key: constant open key
- Joystick: 3-axis joystick, home position automatically;
- Digital display: 12864 LCD display
- Temperature: -7⁰ ~ 49⁰C
- Humidity: 10 ~ 90%;
- Dimension: Length (34) x width (18) x height (5) CM
- Weight: 1.5kg

3.2 Electrical parameter

- Input voltage: 12VDC;
- Rated power: 5W;

3.3 Controlling Mode

- Directly control PELCO-P/PELCO-D/VISCA protocol
- Control interfaces: RJ-45, 422、485 connection ports、DB9
- Baud rate: 1200、2400、4800、9600
- Parameter: 8 byte, 1 stop bit, NO parity

Chapter 4 OSD Operation

4.1 Operation Introduction

4.2 Main Menu

4.2.1 Main Control Interface

4.2.2 Keyboard Menu

4.1 Operation Introduction

● PAN/TILT Control

Operate joystick to control the directions of the speed dome camera; the rotation of the joystick is for controlling the zoom of the lens, clockwise rotation for zooming in and counter-clockwise for zooming out; the lens control are achieved by the following keys: WIDE、 TELE、 CLOSE 、 OPEN 、 FAR 、 NEAR

● ZOOM, FOCUS, IRIS

OPEN : Open Iris

CLOSE: Close Iris

FAR: Far Focus

NEAR: Near Focus

TELE: Tele Zoom

WIDE: Wide Zoom

● Input number keys

Input the needed numbers “0” to “9” descendingly, input range 0~1000, press the “0” continuously to clear the inputs

● Set the speed dome address

“Number Key” + “CAM”

● Set the presets

“Number Key” + “Press Preset for 2 seconds”

● Run the presets

“Number Key” + “Preset”

● Function Key F

Open service position “Number Key” + “F”

Close service position “Number Key” + “F”

Pattern scan: 1”+“F”to record the pattern, 1”+“F”to preserve the pattern, 1”+“F”to run the patternn,

Absolute position operation: Press “F” to enter into operating interface of absolute position , refer to keyboard menu function for more details

Zoom operation: Press “F” to enter into operating interface of zoom, refer to keyboard menu function for more details

Speed dome menu: Press “F” to open the speed dome menu

Speed dome return to virtual position: Press “F” then speed dome return to tilt virtual position

180 degrees flip: Press “F” then speed dome flip vertically

Direction Keys: 2D keys operation, UP“2”, DOWN“8”, LEFT“4”, RIGHT“6”, Left-Up “1”, Left-Down “7”, Right-Up “3”, Right-Down “9”, quicken up the pan/tilt speed by “CAM”/ “0” , slowdown the pan/tilt speed by “PRESET”/ “5”

Clear the presets: “Number Key” + “Preset”

Nonuse: Keys are not working

*Note: The corresponding F key function can be defined in the keyboard menu, F1 default to open the

service position、 F2 default to close the service position、 F3 default to pattern scan function、 F4 default to speed dome return to virtual position、 F5 default to 180° flip、 F6 default to direction keys

4.2 Main Menu

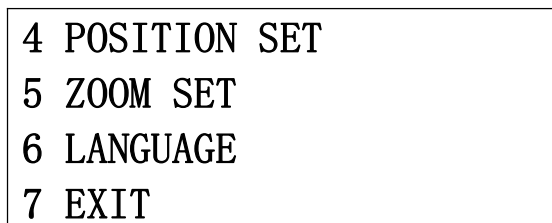
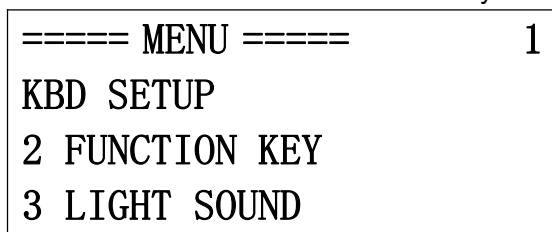
4.2.1 Main Control Interface



As picture shows Pelco-D P, baud rate 9600, Speed dome address 1, 60 degrees speed left, 37 degrees speed up, zoom in

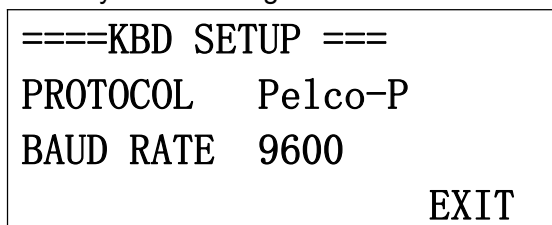
4.2.2 Keyboard Menu

“1000” + “PRESET” to enter into Keyboard Menu



“PAN/TILT” is to operate the cursor position, “OPEN” is to confirm the choice and parameter adding while “CLOSE” to confirm the choice and parameter decreasing, “NEAR” is to return to previous menu, number keys “0” to “9” to input data

4.2.2.1 Keyboard Setting



Protocol:

There are Pelco-P、Pelco-D、VISCA protocols

Baud Rate:

Baud Rate 1200、2400、4800、9600 BIT/S

4.2.2.2 Function Key Setting

```

== FUNCTION KEY ==
KEY NO.      F1
FUN          AUX OPEN
                                EXIT

```

Function key

There are function keys of F1、F2、F3、F4、F5、F6

Function:

open service position、close service position、pattern scan、absolute position operation、zoom operation、speed dome menu、speed dome return to virtual position、180 degrees flip、direction keys、clear the presets、nonuse.

4.2.2.3 Light Sound Setting

```

== LIGHT SOUND ==
LIGHT TIME    10M
SOUND         ON
                                EXIT

```

Backlight time

10 minutes, 5 minutes, Normal On, Close

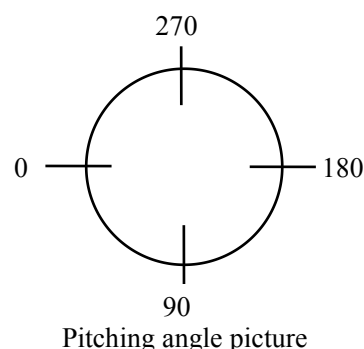
*Note: “10 min” “5 min” means no operation, backlight will be closed when time is up and will only open when operating.

4.2.2. Absolute position operation

```

== POSITION SET ==
P  156.12      SET
T  30.51       QUERY
                                EXIT

```



The picture shows speed dome present position is 156.12° for pan and 30.51° for tilt

Pan P Range 0~359.99 *Note: Press “OPEN” “CLOSE” when the cursor is at this position, and the speed dome will rotate to this pan position.

Tilt T Range 0~359.99 *Note: Press “OPEN” “CLOSE” when the cursor is at this position, and the speed dome will rotate to this tilt position.

Setting: The speed dome rotate to the corresponding pan/tilt position

Query: Query the present position of speed dome and display it after P、T.

4.2.2.5 Zoom Setting

```

=== ZOOM SET ===
LIMIT 18      SET
Z  15.23      QUERY
                                EXIT

```

The picture shows the present zoom of the speed dome is 15.23, and the maximum optical zoom of the

lens is 18 times.

Total multiple range 0~99 *Note: "Total multiple" must be corresponding to the maximum optical zoom of the lens, or setting, query will not be accurate.

4.2.2.6、Language Setting

```
====LANGUAGE====  
  
LANG  ENGLISH  
  
EXIT
```

Language

Chinese、English

Note: All operations above mentioned are based on the on the assumption that of using Pelco-P 、 Pelco-D protocol, as others protocol has their own standards for functions, so there will be tiny difference of operating the "Function definition" 、 "Absolute position operation" 、 "Zoom operation"