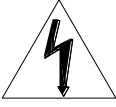
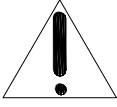


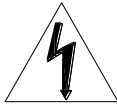
Manual Operation for Intelligent Car Vehicle Control Keyboard

V1.0

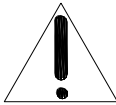
Please carefully read this manual operation before use it

SAFETY PRECAUTIONS

	CAUTION RISK OF ELECTRIC SHOCK. DO NOT OPEN!	
CAUTION: TO REDUCE THE RISK OF ELECTRICAL SHOCK, DO NOT OPEN COVERS. NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL		



The lightning flash with a arrowhead symbol, in an equilateral triangle, is intended to alert the user. There is uninsulated “dangerous voltage” presence near by the product’s enclosure which may be risk of to persons .



The exclamation point within an equilateral triangle is intended to alert the user to reference of the important operating and maintenance (servicing) instructions .

THE PRODUCT CODE MARKED ON THE BOTTOM COVER. PLEASE FILL THE CODE IN THE FOLLOWING BLANK. PLEASE SAVING THIS SPECIFICATION CAREFULLY, SO THAT CHECKING. MODEL: _____ PRODUCT CODE: _____
--

Friendly reminder: Please turn off the wireless keyboard in the case of non-use, or charge 1-2 times per week, each time for 3 hours to ensure your normal using.

Index

I. Features description.....	1
II. Function description.....	1
III. Dimension of keyboard.....	1
IV. Keyboard panel board description.....	2
1. Front panel board and button description.....	2
2. Back panel board and button description.....	2
3. Description for wireless receiver	3
V. Manual operation of keyboard.....	4
VI. System connection.....	4
VII. Technical parameter.....	5

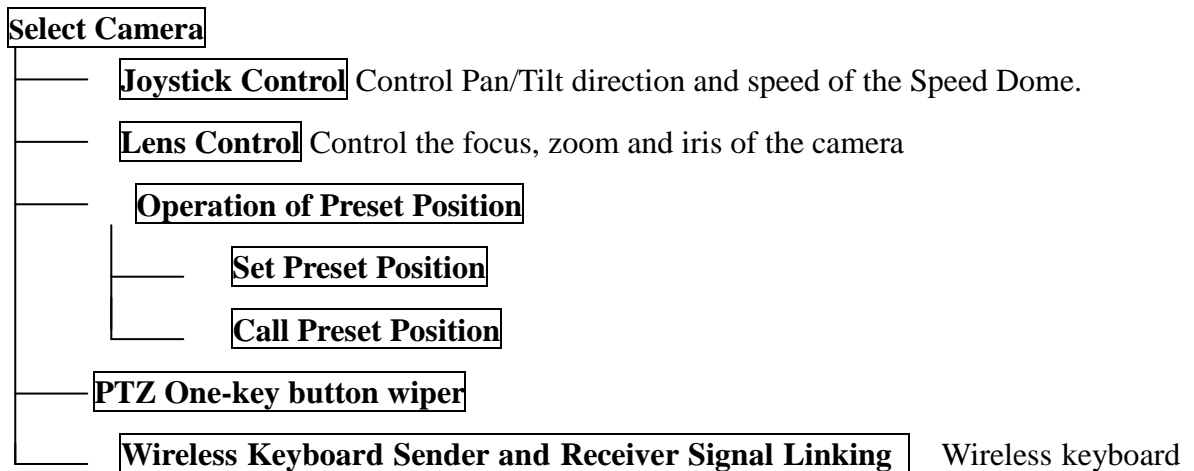
I. Features description :

1. Compact, suitable for patrol car, buses and other vehicle systems.
2. 3-Axis joystick control
3. Wireless control it could achieve 2.4G wireless control, and the further distance up to 30M.
4. Protocol: PELCO-D

Main function :

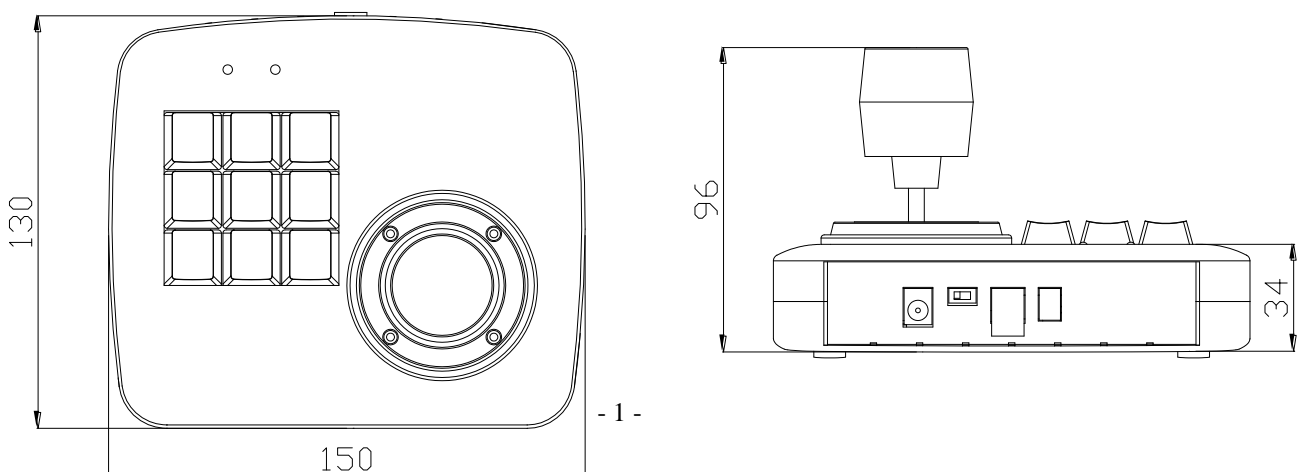
- ◆ Set dome camera or decoder address: 1、 2、 3、 11、 12、 13、 21、 22、 23、 31、 32、 33。
- ◆ Variable control speed for PTZ and speed run smoothly
- ◆ It could set preset positions, call preset positions, and also it could set and call the following points. 1、 2、 3、 11、 12、 13、 21、 22、 23、 31、 32、 33、 111、 112、 113、 121、 122、 123.
- ◆ One-key button wiper function for special PTZ cameras.
- ◆ It could manual control the camera zoom and iris.

II. Function descriptions :



signal linking with receiver.

III. Dimension of keyboards:



IV. Keyboard panel board description

1. Front panel board and button description (Figure 1)

There have 9 buttons and 3-Axis joystick on panel board , The joystick controls the upward, downward, leftward and rightward speed motion of the speed dome ,1, 2, 3, PRESET, CALL, AUX, OPEN, CLOSE, CAM to achieve the PTZ controlling.

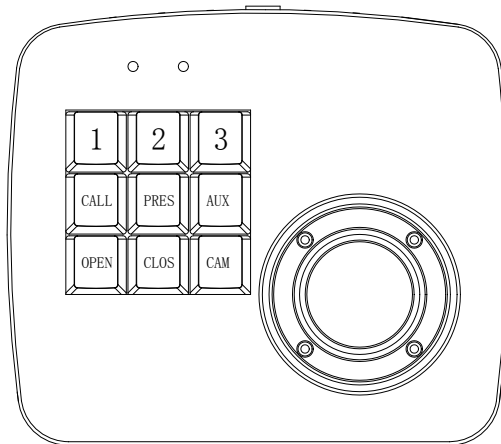


Figure 1

- **CAM:** Used with camera buttons to select cameras or decoder address to display in the full, it could match with Number keys to change address.
 - **1, 2, 3:** Number Keys
 - **CALL:** To call the preset position.
 - **PRESET:** To set the preset position.
 - **AUX:** One-key button wiper function. (Other functions are available upon on the request) .
 - **OPEN:**To open the Iris
 - **CLOSE:** To close the Iris
- ### 2. Back panel board (Figure 2)
- A、 Power input connector: input DC12V power.
 - B、 Keyboard power switch, it is lights on when turn on back panel lights, please turn off when it doesn't run.
 - C、 Communication connector RS485.**Notes:** Wireless keyboard without such connection.
 - D、 ID-Code Switch: Wire keyboard for baud rate choosing, Wireless keyboard which is suitable for 1to1 or 1to multi switch. Please refer to manual operation of Code description.

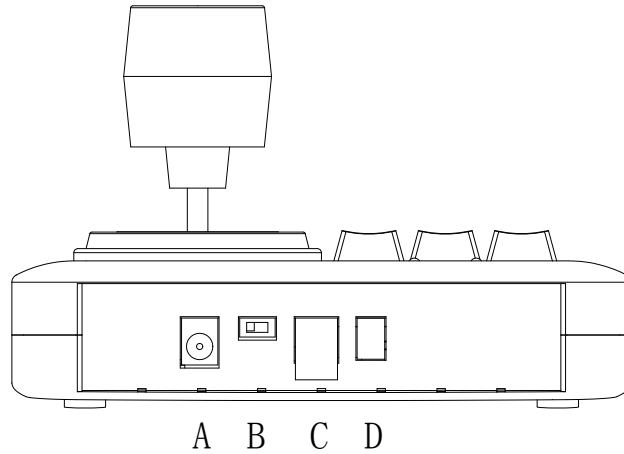


Figure 2

Code description:

Wire keyboard to D connection, DIP1、DIP2 select baud rate as following:

Baud rate	Status of ID-Code	
	DIP1	DIP2
2400bps	OFF	OFF
4800bps	ON	OFF
9600bps	OFF	ON
19200bps	ON	ON

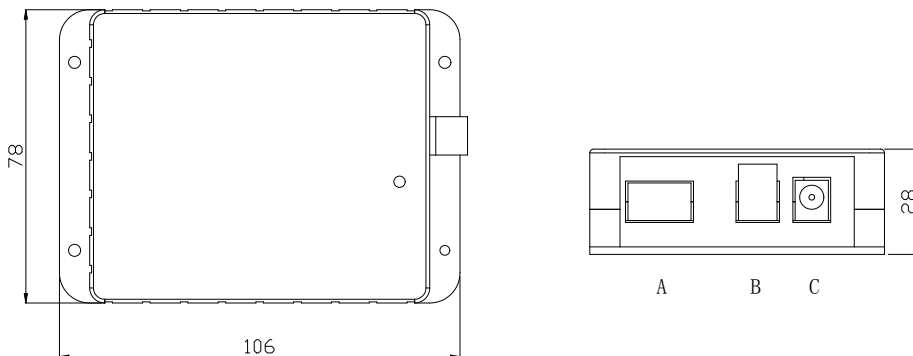
Wireless keyboard D connector, It could switch to one to one or one to multi mode when you set the DIP1 or DIP2.

DIP1, DIP2 ON: One to One mode (1 wireless keyboard to 1 wireless receiver)

DIP1, DIP2 OFF: One to Multi mode (1 wireless keyboard to multi wireless receiver)

Notes: When you change the DIP code, you should match the DIP code with receiver before the system controlling. About matching DIP code, please refer to manual operation of keyboards.

3. Wireless receiver (Wireless controller keyboards)



A:6-bit DIP: DIP1-4 radio frequency channel selection. 1 - 4 ON corresponding to the four channels. Wireless keyboard and the receiver need to re-code after the channel modified. Please refer to keyboard operate instructions related to code command. Under normal station, 1-4 DIP turned OFF.

DIP 5-6 ID-Codes: Baud rate ID-Code as the following sheet.

Status of ID-Code	DIP5	DIP6
Baud rate		
2400bps	OFF	OFF
4800bps	ON	OFF
9600bps	OFF	ON
19200bps	ON	ON

B :RS485.Connector

C: DC12V Power connector

V. Manual operation of keyboard

1、 Select dome/Decoder address: **[N]+[CAM]**

Description: N----No of camera, range 1, 2, 3, 11, 12, 13, 21, 22, 23, 31, 32, 33

Function: Select the address of the camera to be controlled. When the value N is in conformity with the address of the Speed Dome Camera, it will be under control

2、 Set the Preset Position: **[N]+[PRESET]**

Description: N----Preset NO, range 1, 2, 3, 11, 12, 13, 21, 22, 23, 31, 32, 33, 111, 112, 113, 121, 122, 123, 131, 132, 133

Function: Store current position and refer it as No. N position

3、 Call the Preset Position: **[N]+[CALL]**

Description: N----Preset NO, range 1, 2, 3, 11, 12, 13, 21, 22, 23, 31, 32, 33, 111, 112, 113, 121, 122, 123, 131, 132, 133

Function: Transfer the camera to the position of No. N preset position.

5、 Special Function: **[AUX]**

Description: One-key wiper function.

Function: Entering to open the wiper of PTZ. (For special PTZ)

6、 Code matching function: **[AUX]+[CAM]** **Special for Wireless keyboard :**

Description: While the wireless receiver is 3m away from the wireless keyboard, please press AUX and CAM for 10 seconds to match the code between the wireless keyboard and receiver ,then it could control after the matching.

7、 Standby wake-up function: Number Keys

Description: The keyboard will enter to the sleeping state if there isn't any operation on keyboard within 1 minute. Thus if you need to control, press the number keys to wake up the keyboard. You'd better turn off the power supply of keyboard if you don't operate with long time to ensure the battery using life.

VI、 System connection

Attention: Please read the operation manual of the keyboard and the speed dome carefully before connecting wires. Any incorrect connections can cause permanent damage of the device. When connecting wires, first switch off the power supply of all devices. The communication wires

between devices should be shielded twisted cable. When installing cables they should be far away from high voltage lines or other possible interference circuits as can as possible.

VII、 Technical parameter:

- ◆ Communication between Speed Dome Camera and Controller: Port to multi-port and half duplex function.
- ◆ Communication connection: RS-485。
- ◆ Baud Rate of Communication: Four baud rates i.e. 2400bps, 4800bps, 9600bps and 19200bps.
- ◆ Distance of Communication: 1200m in maximum
- ◆ Wireless Distance:30M(Max)
- ◆ Power: 500 mA (Voltage input power is different based on power supply specification)
- ◆ Wireless keyboard lithium battery capacity: 1100mah.
- ◆ Wireless keyboard standby time : 150 hours
- ◆ Weight: 0.5Kg