

MKB01

Mini Mobile PTZ Keyboard Controller

User Manual



Contents

1. Features	3
2. Function Introduction	3
3. Dimension (Unit: mm)	4
4. Keyboard Panel Introduction	4
5. Keyboard Operation	6
6. Installation Caution	7
7. Specifications	7

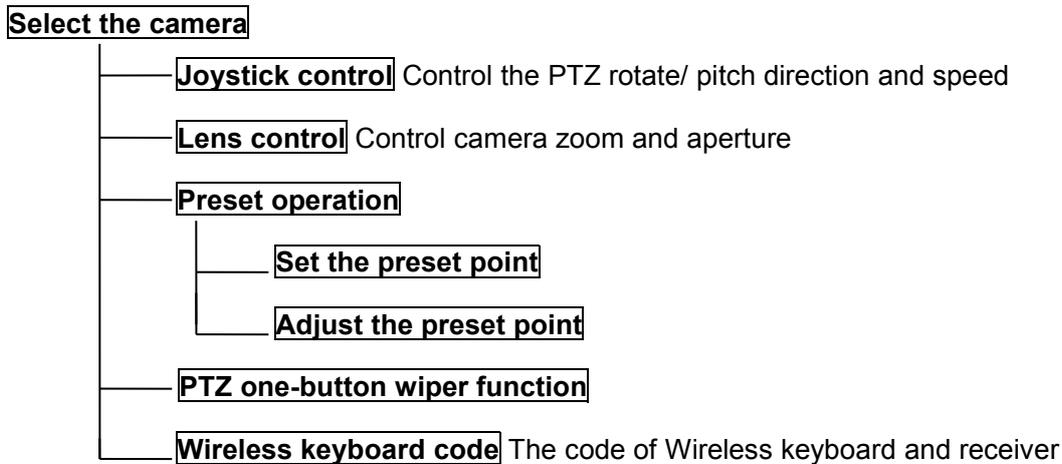
1. Features

1. Compact size, suitable for patrol cars, buses and other automotive systems.
2. Three-dimensional operation control.
3. Wireless keyboard to achieve 2.4G wireless remote control operation. The maximum distance is up to 30 meters.
4. Protocol: PELCO-D.

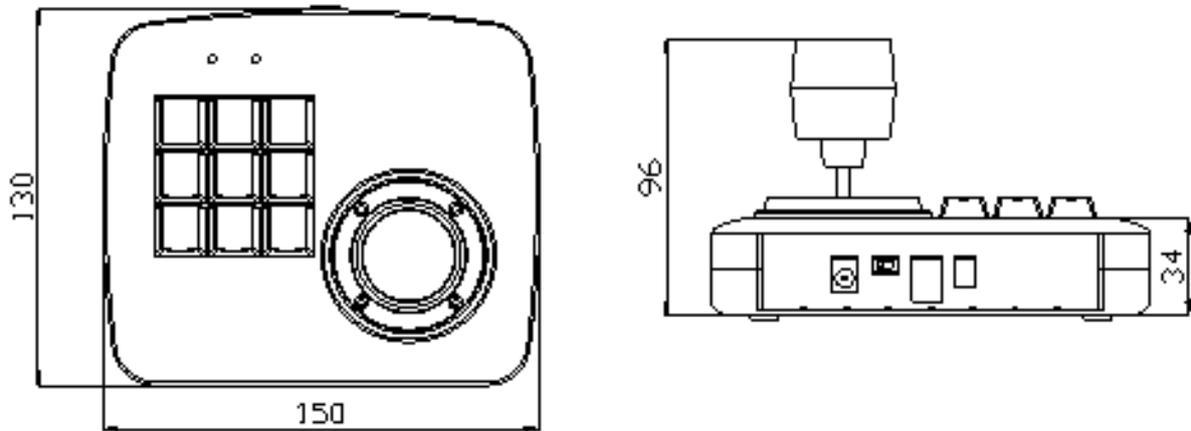
Function:

1. Set the address of dome camera or decoder: 1, 2, 3, 11, 12, 13, 21, 22, 23, 31, 32, 33;
2. Can control PTZ speed well;
3. Preset and adjust PTZ. The following points are available, 1, 2, 3, 11, 12, 13, 21, 22, 23, 31, 32, 33, 111, 112, 113, 121, 122, 123 and etc...;
4. One-button wiper function is available for special PTZ;
5. Control of the camera's zoom and aperture manually.

2. Function Introduction



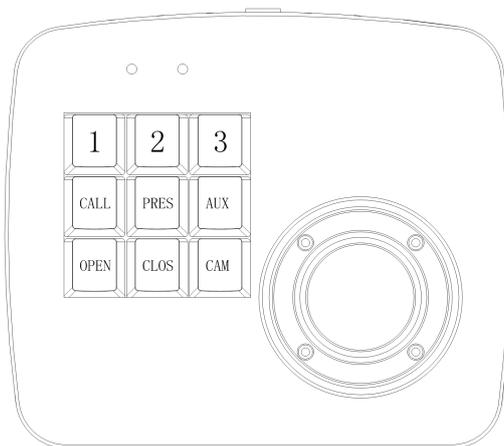
3. Dimension (Unit: mm)



4. Keyboard Panel Introduction

1. Front panel introduction.(Graph 1)

There are nine buttons and one rocker in the panel. The rocker is to control the PTZ direction, such as upwards, downwards, leftwards, leftwards and locate manually.



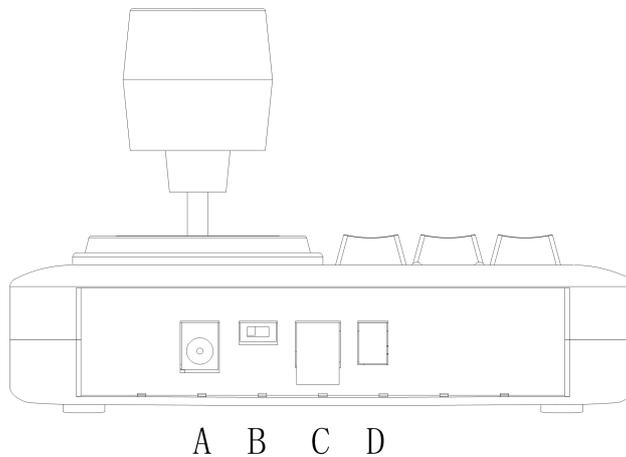
Graph 1

- **CAM:** To select the address of the smart dome camera or decoder. Change the address with the number buttons.
- **1, 2, 3:** Number buttons.
- **CALL:** To adjust preset.
- **PRESET:** To set preset.
- **AUX:** One-button wiper function. (Its function can be customized.)

- **OPEN:** Camera aperture button.
- **CLOSE:** Camera aperture button.

2. Rear panel introduction (Graph 2)

- **A. Power input:** It connects to an external regulated power supply input DC 12V voltage.
- **B. Keyboard power switch:** It lights when it is on. Please turn off when do not need.
- **C. Controlling signal.** Remark: wireless keyboard does not have the key.
- **D. Dialing switch:** The wired keyboard is used for baud rate selection while the wireless keyboard is used for one-to-one and one-to-many mode switching.



Graph 2

Dialing instructions:

- 1) Wired keyboard D
Baud Rate of DIP1 and DIP2

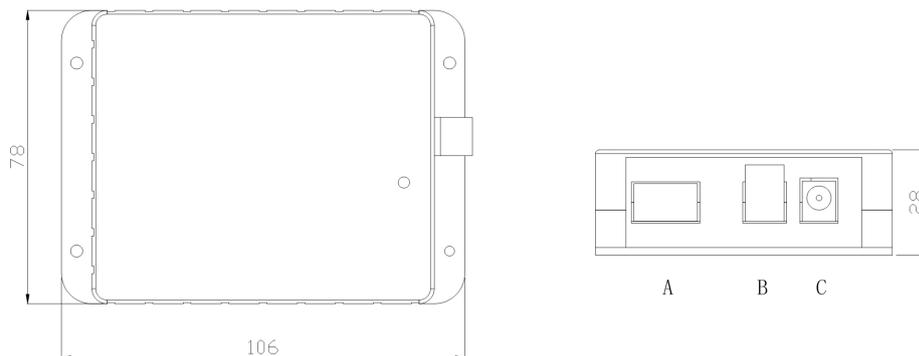
Baud Rate \ Dialing switch status	DIP1	DIP2
2400bps	OFF	OFF
4800bps	ON	OFF
9600bps	OFF	ON
19200bps	ON	ON

- 2) Wireless keyboard D
After dialing, DIP1 or DIP2 can be switched to one-to-one or one-to-many mode.

DIP1, DIP2 ON: One-to-one mode (A single wireless keyboard corresponds to a single wireless receiver)
DIP1, DIP2 OFF: One to many mode (A single wireless keyboard corresponds to multiple wireless receivers)

Note: It needs to code with receiver to control if the dialing has change.

3. Special wireless receiver (It is available for wireless keyboard.)



A: 6 digit-dialing: DIP1-4 wireless frequency channel selection. 1 to 4 ON corresponds to four channels respectively. After the channel modification, the wireless keyboard and the receiver need to re-code. Generally, 1-4 can be dialed to OFF.

DIP 5-6 dialing: Baud Rate selects dialing.

Dialing switch status	DIP5	DIP6
Baud Rate		
2400bps	OFF	OFF
4800bps	ON	OFF
9600bps	OFF	ON
19200bps	ON	ON

B: RS485 terminal.

C: DC12V power connector.

5. Keyboard Operation

- a. Select dome / decoder address: [N] + [CAM]
 - Description: N ---- camera number, range 1, 2, 3, 11, 12, 13, 21, 22, 23, 31, 32, 33
 - Function: Select the address of camera that needs to be controlled. When the N value matches the dome camera address, the dome camera will be controlled.

- b. Set the preset point: [N] + [PRESET]
 - Description: N ---- Preset point number, range 1, 2, 3, 11, 12, 13, 21, 22, 23, 31, 32, 33, 111, 122, 133, 131, 132, 133
 - Function: Stores the current position and sets the position as the Nth position

- c. Enable the preset point: [N] + [CALL]
 - Description: N ---- Preset point number, range 1, 2, 3, 11, 12, 13, 21, 22, 23, 31, 32, 33, 111, 122, 133, 131, 132, 133
 - Function: Turn the camera to the position of preset number N.

-
- d. Special features: [AUX]
Description: One-button wiper function.
Function: Open the PTZ wiper. (Corresponding to special PTZ)
- e. Code function: [AUX] + [CAM] It is available to wireless keyboard:
Description: When the receiver is within 3 meters of the wireless keyboard, press and hold the AUX and CAM buttons for 10 seconds to match the keyboard with the receiver.
- f. Standby wake-up function: number buttons
Description: The keyboard will enter hibernation mode if there is no operation for 1 minute. User can press the number button to wake up the keyboard. Turn off the power switch if user do not use it to ensure the battery life.

6. Installation Caution

CAUTION: Before wiring, please read the operating instructions of the keyboard and high speed dome carefully. Any incorrect wiring may cause permanent damage to the equipment. When wiring, please pay attention to disconnect all the equipment first, the communication lines between devices must be connected with shielded twisted pair. When setting up the cable, try to avoid high-voltage lines and other possible interference lines.

7. Specifications

- ◆ PTZ and keyboard communication: point-to-multipoint half-duplex communication;
- ◆ Communication interface: RS-485;
- ◆ Communication Baud Rate 2400Bps, 4800Bps, 9600Bps, 19200Bps four baud rate;
- ◆ Wired communication distance: up to 1200 meters;
- ◆ Wireless communication distance: Maximum 30 meters;
- ◆ Power supply: 500 mA (Input voltage of power supply varies according to power supply specifications);
- ◆ Wireless keyboard lithium battery capacity: 1100mah;
- ◆ Wireless keyboard standby time: 150 hours;
- ◆ Weight: 0.5Kg.