

User Manual



Controlling Board

PTS3103C

1. Installation precautions

Before installing this product, please pay attention to the following points:

- Read the entire manual to avoid making mistakes during installation.
- Do not leave the control panel near water or in a very humid environment.
- Correctly check the voltage of the socket where the control panel will be located.
- Do not use strong products to clean the table.

ATTENTION: For the appliance to remain under warranty, do not disassemble the table, any damage caused by misuse of the product will not be covered by the warranty.

2. Features

2.1 Overview

The smart keyboard controller supports any products you use EIA/RS485 communication interface. The function control can simultaneously control up to 16 DVRs and 64 cameras with a maximum distance of up to 1.2 km. Using this table, it is possible control the speed, set the machine, and directly control the terminal decoder.

In addition to the 2D keyboard, the table has all the functions of a 4D keyboard, being able to expand the image (zoom).

2.2 Technical Data

2.2.1 Multipoint half-duplex communication

2.2.2 Standard interface: RS485

2.2.3 Baud rate: 1200bps, 2400bps, 4800bps, 9600bps

2.2.4 Communication protocol: PELCO-D and PELCO-P

2.2.5 The control panel can be connected to two types of devices: DVR Kang and NVR Dahua

2.2.6 Maximum communication distance is 1.2 km

2.2.7 Power: DC9V

2.2.8 Supported DVR quantity: 16 DVR

2.2.9 Supported PTZ camera quantity: 64 cameras

2.2.10 Dimensions: 262 x 133 x 100mm, weighing 0.6 kg

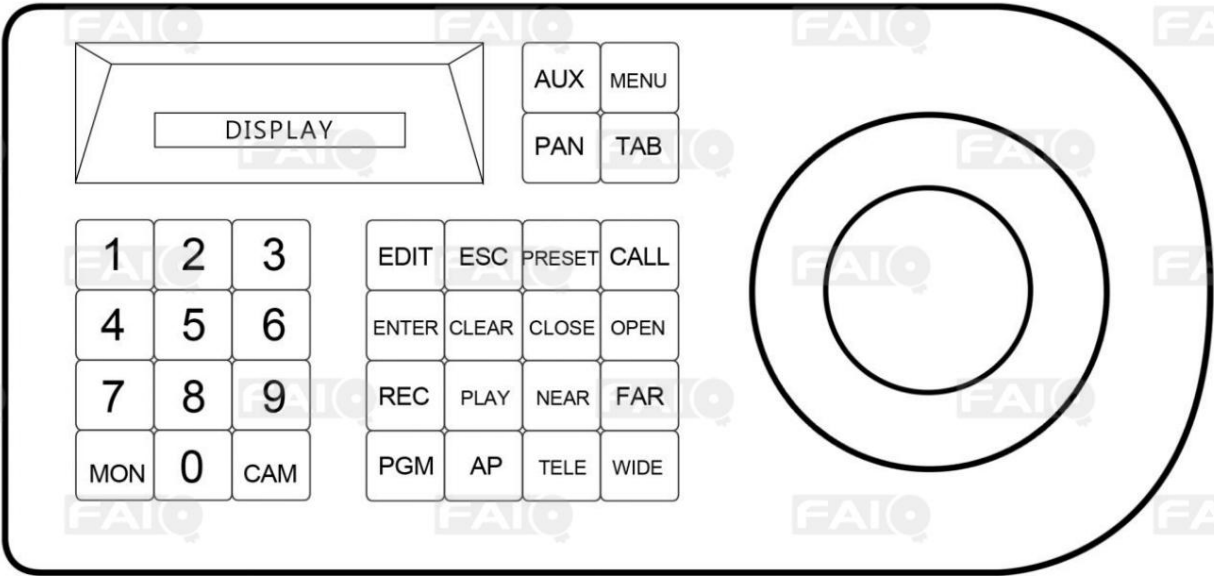
3. Installation of the Control Panel

3.1 Panel connection



- A. Power input (DC9V)
- B. RS485 output (1. RS485A; 2. RS485B; 3. RS485+; 4. RS485-)
- C. RJ45 port for table control

3.2 Panel Description



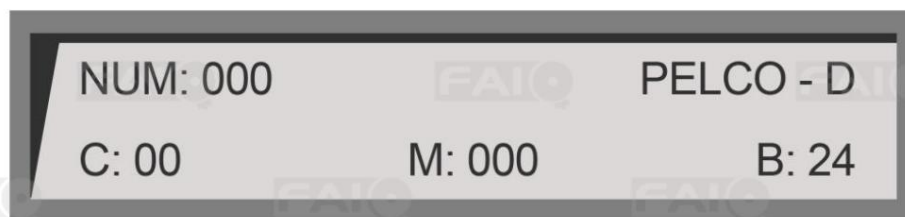
Main functions:

Keys	Hard disk burner (TAB view)	Terminal device (TAB not displayed)
0 – 9	Data entry	Data entry
MY	Set device number	Ignore
CAM	Ignore	Address configuration confirmation
MENU	Menu to start calling	Do not use
EDIT	Hidden from image editing, adjustment, confirmation, playback setting	Do not use
ESC	Undo the current command	Decoder automatically checks
TAB	Equipment conversion	Equipment conversion

PAN	DVR Control Key	No. 2, 4, 6, 8 to operate up, down, right and left
REC	Video Configuration	Do not use
PRESET	Do not use	Set and clear cruise set
CLEAR	Do not use	Data Offer
AP	Hidden Image (Point Clean)	Do not use
PLAY	Resume video playback	Do not use
ENTER	Confirm menu item	Do not use
CALL	Do not use	Preset scan function
PGM	Do not use	Protocol, confirm baud rate
CLOSE	Lens opening when closed	Open the camera lens
OPEN	Open to lens	Modify lens aperture parameters
NEAR	Focus adjustment (near)	Focus adjustment (near)
FAR	Focus adjustment (from a distance)	Focus adjustment (from a distance)
A LOT	Zoom	Zoom
WIDE	Zoom	Zoom
TO 1	Telas do DVR	Decoding
TO 2	Do not use	Decoder help
POWER	Power switch	Do not use
Joystick	Rotation: Zoom adjustment	Rotation: clockwise: zoom in; counterclockwise: zoom out zoom

3.3 LCD Walkthrough

The LCD screen displays operating information. If the screen does not turn on within 10 seconds, power saving mode will be turned on automatically.



- **NUM: xxx:** use the number keys to enter the number of the device you want operate. To change the device, click the "Clear" button to erase the old number and enter the new number.

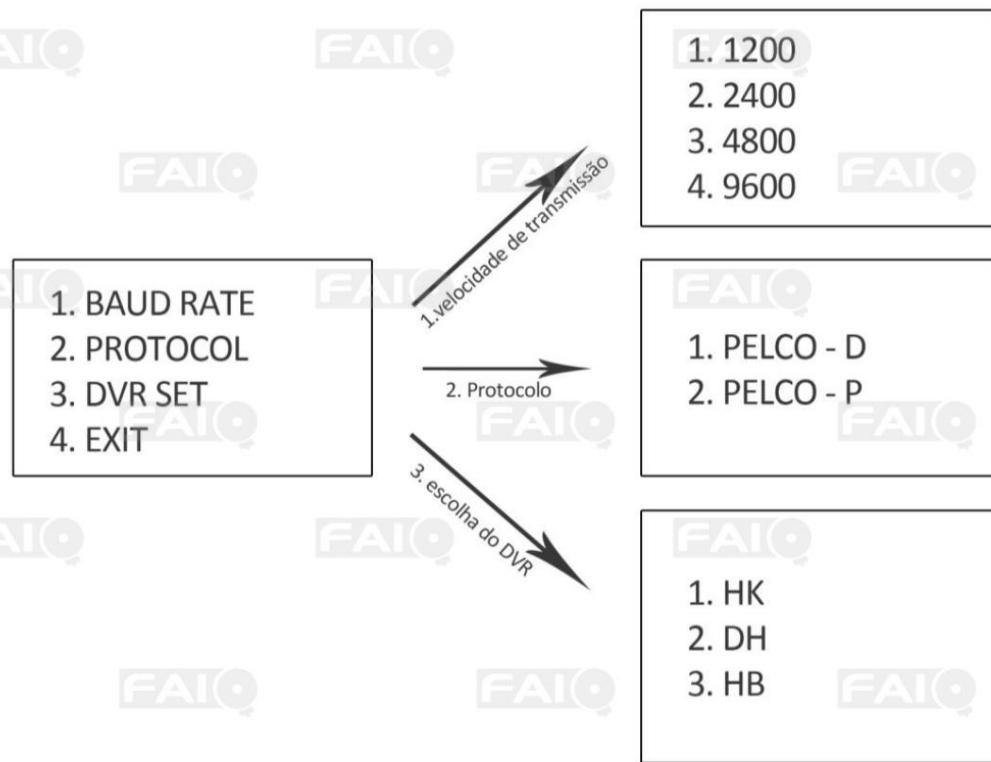
- **M: xxx:** DVR device address
- **C: xx:** displays the devices that are connected to the DVR
- **PELCO-D:** protocol you want to use (PELCO – D or PELCO – P)
- **B: xx:** transmission speed
- **PELCO-D:** Display Protocol

- **PELCO-P:** Display Protocol
- **PTS Protocol:** It will show PELCO-D protocol when the NVR is working.
- **UP:** When you want to move the camera lens upwards, just leave this option selected and gradually move the camera with the Joystick on the table.
- **DOWN:** When you want to move the camera lens down, just leave this option selected and gradually move the camera with the Joystick on the table.
- **RIGHT:** When you want to move the camera lens to the side, just leave this option selected and gradually move the camera with the Joystick on the table.
- **LEFT:** When you want to move the camera lens to the side, just leave this option selected and gradually move the camera with the Joystick on the table.
- **OPEN:** Use this feature to open the iris.
- **CLOSE:** use this command to close the iris
- **NEAR:** Tune the camera operation to focus close to the camera
- **FAR:** adjust the lens focus to far distance
- **TELE:** to zoom in on the camera, click the “tele” key.
- **WIDE:** to zoom out the camera, click the “wide” button.

4. Method of Operation

First, set the appropriate baud rate for the keyboard in the keyboard menu. device to be controlled and the control protocol in order to properly control the device. Press the “menu” key and use the “joystick” to select the correct options on the device you are configuring. After completing the configuration, click “Exit” and use the Joystick to move the device.

Press the “Menu” button on your keyboard to display the following menu:



4.1 Keyboard Operation

Predefined positions	N + [PRESET] (the letter "N" represents a number)
Set calls	N + [CALL]
Clear preset positions N + [PRESET] (3 seconds)	
Activate assistance	[AUX] to turn on and off
Activate buzzer	66 + [PGM] to turn on and off
Set the speed of transmission 1200 (B)	12 + [PGM]
Set the speed of transmission 2400 (B)	24 + [PGM]
Set the speed of transmission 4800 (B)	48 + [PGM]
Set the speed of transmission 9600 (B)	96 + [PGM]
Define the PELCO-D protocol	44 + [PGM]
Define PELCO-P protocol	50 + [PGM]
Set the address bits (C)	0 to 255 +[CAM]
Start PTZ camera rotation	[THAT]

automatically	
PTZ camera search	[ESE] or Joystick
Move the PTZ camera manually I	Joystick Control (tilt angle, moving more fast
Move the PTZ camera manually II	[PAN] + 2 / [PAN] + 4 / [PAN] + 6 / [PAN] + 8
Lens aperture	[OPEN] / [CLOSE]
Focus adjustment	[NEAR] / [FAR]
Tiro close-up	[LARGE] / [WIDE]

4.2 DVR Connection Method

4.2.1 To turn on the DVR, connect the RS485 to the D+, D- port, to access the keyboard, connect to corresponding port A and B.

4.2.2 The keyboard settings and DVR number should remain the same. same, enter the number "N" and then press the "MON" button to confirm. Press the "TAB" key to manage the DVR.

4.2.3 To enter the DVR main menu operation screen: click the "MENU" button to show the hard disk recorder

4.2.4 Manual recording adjustment. To exit, click the "ESC" button and to record, click on the "REC" button.

4.2.5 Manually enter video playback settings: Click the button "PLAY" to set manual recording and "ESC" to exit.

4.2.6 To enter the device parameters in the pre-defined functions: click "ENTER" to enter the parameters corresponding to the decoder. Press the "ENTER" button again. "ENTER" button to confirm the set with the joystick and click "ESC" if you want to cancel.

4.2.7 Screen switching: ???

4.2.8 Manually move PTZ: To set the right camera, select the port correct "N" + [PAN], then control with the Joystick turning up, down and to the left sides. To exit this function, simply click "ESC".

4.2.9 To enter the hidden image settings: click "MENU" and use the joystick to select "Image", click "ENTER" to confirm. When you click to hide the selected area, click "EDIT" to have a domain. To delete this hidden area, click in "AP" and to exit, click "ESC".

4.2.10 Activate password settings: use the joystick to select "Display", press the "ENTER" key to confirm the selection and go to "Enable the settings of

password”, press “ok” and set a password. To change the key password, select the screen main menu of your DVR to confirm the key change.

4.3 Connection method of DVR operations

4.3.1 Setting the DVR on the table:

- See the number in the main menu of the device (go to system settings, common settings and lastly, native ID)
- To configure a network (system settings, configurations and finally, port of the screen network)
- To log out a user (go to the user's main logout menu and then to system confirmation)

4.3.2 Menu setting: press “MENU” button and select “Protocol”, then the “DH” option, press the “MENU” button to exit. The transmission speed, normally is 96000.

4.3.3 DVR Connection

4.3.3.1 Configure the device corresponding to the number “N” and then click “MON” to confirm.

4.3.3.2 Press “TAB” key to enter DVR

- The “AUX” button is used to show various screens on the DVR
- With the “MENU” button, enter the DVR and use the joystick to move around the menu. Click on “ESC” to exit the Menu.
- Use the “REC” button to enter manual recording settings, use the “ESC” to exit.
- The “PLAY” button is used to set manual recording playback. Use “ESC” to leave.
- To use the PTZ function manually, click the “PAN” button and enter the link manually, select PTZ control and click “ENTER”.