



User Manual

For Keyboard Controller



Please read this manual carefully before use of the products and preserve for reference purposes. Specifications are subject to change without notice*

Parameters

Item	Parameters
Power supply	DC12V $\pm$ 10%/50HZ
Temperature	-10 ~ 55°C
Humidity	$\leq$ 90% RH (No cream node)
Communication	RS485 Half-duplex
Baud Rate	1200bps、2400bps、4800bps、9600bps、19200bps
Interface	5PIN Pressure Line Terminal
That way	The LCD screen
Exterior size	305 (L)X148 (W)X82 (H)mm

List of items :

Name	Quantity	Units	Remarks
5PIN Isobar plugs	1	PCS	
DC-12VPower	1	PCS	INPUT : 100-240VAC ~ 50/60Hz
《Users Manual》	1	PCS	

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Features

Devices connected to RS485 bus can be set with different protocol and Baud rate.

Firmware updates are available online, connect to your pc with the RS485 bus

All parameters can be set via control key operations

Basic Functions

RS485 control bus can control a maximum of 255 devices, depending on the settings of the communication chipset.

Standard RS485 I/O ports are all lightning proof and are built to resist interference with a standard communication distance of 1200m.

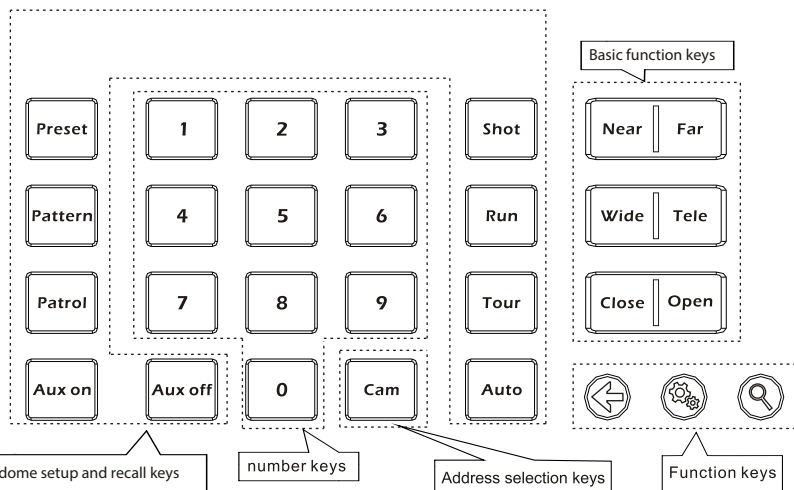
Uplink port can provide links to a maximum of 15 slave keyboard controllers

Multiple protocols available for dome control.

Password to lock unlock keyboard.

Key sounds turn on off

Function Keys on front of controller



Function keys

- 【←】 Back to previous menu
- 【⚙️】 Press for 3 seconds to set up key parameters
- 【🔍】 Inquire the protocol and baud rate of current address

Speed dome setup and recall keys

Not all speed domes have this function

- 【Preset】 Preset a default position for the dome, this should be used with the number key
- 【Pattern】 Press to set pattern record of speed dome, hold for 3 seconds to record pattern, this should be done with the knob or function keys, press button again to exit
- 【Patrol】 Press to enter the menu to set patrol pattern, this should be done with the knob or function keys, press button again to exit.

- 【Aux on】** Press to turn AUX on, this should be used in combination with the number keys.
- 【Aux off】** Press to turn AUX off, this should be used in combination with the number keys.
- 【Shot】** Press to return dome to original preset position, this should be used in combination with the number keys.
- 【Run】** Press to recall the preset pattern of dome, this should be used in combination with the number keys.
- 【Tour】** Press to run patrol set for dome, this should be used in combination with the number keys.
- 【Auto】** Press to control dome automatically.

Number keys

- 【0】 【9】** Numeric keys from 0-9

Address selection keys

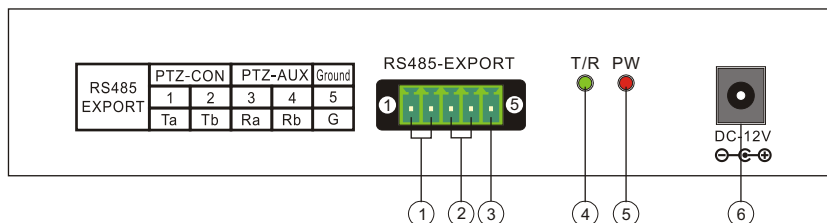
- 【Cam】** Press this key to select address

Basic Function keys

- 【Near】** Press this key to manually focus on a distant object
- 【Far】** Press this key to manually focus on a closer object
- 【Tele】** Press this key to manually zoom in
- 【Wide】** Press this key to zoom out for a wide lens angle
- 【Open】** Press this key to manually increase aperture
- 【Close】** Press this key to manually zoom in

Back panel connections

15pin port
12vDC port
2 LED indicators



	Marked	Interface	Description
①	PTZ-CON	Control output (Ta/Tb)	
②	PTZ-AUX	Slave keyboard controller input (Ra, Rb)	Connect to slave key port: Ra to Ta on slave , Rb to Tb on slave
③	Ground	Grounding(G)	grounding of communication cable
④	T/R	PTZ indicator	Display output status: Flickering and GREEN
⑤	PW	Power indicator	Always on, RED
⑥	DC-12V	DC power input	DC power input

The LCD screen

All key presses will show instantly on screen, monitor will switch to low power mode if controller is unused for more than 3 seconds.

Knob control operations

Operating	Output Control	Operating	Output Control	Operating	Output Control	Operating	Output Control
	Upward		Downward		Left		Right

Setting pattern scan

Choose address of dome you want to set pattern scan for. Long press the **【Pattern】** key, and the screen will display **PATTERN RECORD** select a number to set the pattern to and press the number along with the **【Pattern】** key. The screen will display **PATTERN RECORD** Use the control knob to set a pattern for the dome, when you are finished press the **【Pattern】** key to finish pattern route, screen will display **PATTERN STOP**

Recall pattern scan

Press the **【Run】** key screen will display **RUN PATTERN NO:** . Choose the number that you set your desired pattern on and your dome will run the pattern, the screen will display **PTZ-XXX PATTERN** . Pressing any operation key will cause the pattern to stop.

Setting patrol

Choose address of dome you want to set the patrol for. Select a number to set the patrol to and press the number along with the **【Patrol】** key. Once number is selected move the knob left or right to set first preset in patrol. Multiple presets can be added to a single patrol after first preset is made. Then a desired point is selected move knob down to add the first preset to the patrol. Next move the knob left or right to set the duration camera will stay at preset, move knob down to save. Next move the knob rightward to set amount of time it takes to get to the next preset, move knob downward to save. Repeat the steps above to add multiple presets to single patrol. Then complete press patrol key again you will be asked if you want to save preset, press **【】** key to save.

Protocol and Baud rate setup

In normal mode press 【】 for 3 seconds, you will be asked to input password(the default password is 8888). Press the 【】 key and select PTZ setup, you will then need to enter the address of the dome you want to change and press 【】 key. Select the protocol and move knob to switch protocols. Press 【】 key and an alarm will sound indicating success. Move knob downward to select the baud rate, then move knob left or right to select desired rate. Press 【】 key and an alarm will sound indicating success. Press back button 3 times to return to normal mode.

Restoring default settings

In normal mode press 【】 for 3 seconds, you will be asked to input password(the default password is 8888) press the 【】 key, move knob downwards and select system setup with the 【】 key, then move knob downwards and select default, you will be asked if you are sure, to confirm press 【】 key and an alarm will sound indicating success.

Keyboard Lock

In normal mode press 【】 for 3 seconds, you will be asked to input password(the default password is 8888) press the 【】 key, move knob downwards and select system setup with the 【】 key. Move knob upwards and select lock set press 【】 key move knob right to turn password on press the 【】 key and you will be prompted to enter your new password press the 【】 key to lock set. After new password is set you may press the 【】 key to lock keyboard, you will be prompted to enter password before keyboard will lock. Press any key to open password prompt, enter password to unlock.