

Mini Keypad Controller Operation Manual



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Summary

1. This mini keypad controller adopts the newest high speed microcontroller technology, it has an elegant design with powerful function, which is used for controlling terminal receivers which supports RS485 such as camera, high speed dome, PTZ etc. The controller is very easy to operate and set up the devices, and also control the terminal receiver to achieve the function of Pan/Tilt, Pan Focus Lens etc.

2. Using the EIA/RS-485 electrical interface between the keypad and the receiver.

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Brief Introduction of the Keypad

Front keyboard panel



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1: 16x2 LCD display
2: Power indicator
3: Focus Far key
4: Focus Near key
5: Call the preset position key
6: Set the preset position key
7: Tour, Scan, Pattern function key
8: Set the receive ID/OFF function key
9: Clear function key/
10: 0-9: input number key
11: ENTER key
18: 12, 19, 17: UP, DOWN, LEFT, RIGHT key
13: Function shift key
14: MENU key
15: Zoom Tele key
16: Zoom Wide key

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Top Side Hardware Interface



1: RS485 interface (attached terminal in accessory bag)

- + : RS485 positive signal terminal
- : RS485 negative signal terminal

2: DC12V power (optionally attached power connector converter in accessory bag)



: Power wire rule

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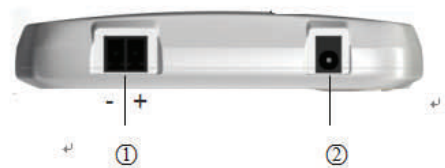
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Operating of the Keypad

[Attention! Please power up the keypad before connecting to RS485 cable.]

Power up the keypad and connect to RS485 cable:

Display: Cam ID: 001
Pelco-D 9600bps

Description: The default communication protocol is Pelco-D, baud rate is 9600bps and the ID is 001. You can change these parameters by following steps :

1. Press [Cam ID]
Display: Input ID: 001
Range: 0~255

Description: Input digit to set up camera ID, and confirm by pressing [ENTER]. Press [CLEAR] to delete or re-enter. System will back to the home page, after entry confirmed and the *Cam ID* is set.

If the digit entered is bigger than 255 and is confirmed by pressing [ENTER],

Display: Input ID: 001
Error: Cam ID

Description: This indicates the digit entered is wrong. The digit entered must be smaller than 255, please input an appropriate digit again and press [ENTER] to confirm. If [ENTER] is pressed without entering any digit, system will return to the home page and CAM ID stays 001 as default.

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2. Press [SHIFT] at home page

Display: 1: PO 2: BD 3: PS

4: TS 5: Tour

Press [SHIFT] + [1]

Display: Protocol Select

<--Pelco-D-->

Press [LEFT] or [RIGHT] keys to select the desired protocol ,then press [ENTER] to save the setting and back to home page.

Press [SHIFT] + [2]

Display: Baud Select

<---9600bps--->

Press [LEFT] or [RIGHT] keys to select the desired baud rate, then press [ENTER] to save the setting and back to home page.

Cam ID, Baud Rate and Protocol of the keypad must be set as same as the device controlled. All settings will be saved in the memory so that it will not be lost during power outage until you change the settings.

3. Press [MENU] to enter the main menu of the controlled device. [MENU], [UP], [DOWN], [LEFT], [RIGHT] keys have same functions as those of a camera. LCD will displays the name of current operation , such as UP, DOWN.

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4. Press [UP],[DOWN],[LEFT],[RIGHT] keys to control the Pan/Tilt direction of the speed dome camera and LCD respectively displays: *Up, Down, Left, Right* at the same time.

Pan and Tilt speed can be set as the follow step:

* [SHIFT] + [3]:

Display: Pan Speed

<-Middle->

Press [LEFT] or [RIGHT] keys to select a speed from Fast, Middle or Slow, press [ENTER] to save. System will back to the home page.

* [SHIFT] + [4]:

Display: Tilt Speed

<--Middle-->

Press [LEFT] or [RIGHT] keys to select a speed from Fast, Middle or Slow, press [ENTER] to save.

All above settings will be saved in the memory so that it will not be lost during power outage until you change the settings.

* **Note:**The starred functions above will be available in next version.

5. Press [WIDE], [TELE] keys to execute the wide angle and telephoto functions of the speed dome , and LCD respectively displays *Zoom Wide, Zoom Tele. Focus Far, Focus Near.*

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6. Long pressing the [0] key will switch the functions between Lens Iris and Lens Focus. Pressing for one second , LCD displays: *Lens Iris Ctrl*, Select IRIS OPEN / CLOSE function by pressing [FAR] / [NEAR], and LCD respectively displays *Iris Open*, *Iris Close*.

Long press [0] key for one second again, function switches changes to the original function, and LCD respectively displays *Focus Far*, *Focus Near*.

7. Refer to control high speed dome, PTZ etc, the keypad controller can be used to set the following functions: Preset, Call preset, Scan, Pattern, and Tour.

① Preset number.

Description: Preset function is that dome stores current pan/tilt angle, zoom, and other position parameters into the memory. When necessary dome recalls these parameters and adjust cameras to the position.

Set Preset Position: [PRESET] + [N] + [ENTER]

Display: Preset No: 001

Description: N— Number of preset position from 1 to 255.

Input number directly to change num-

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[PRESET]+ [ENTER]: Save current preset position as No.1 and back to home page.

If you enter a number bigger than 255 and press [ENTER],

Display: Input No.:001

Error: Preset No.

Description: It indicates the number entered is wrong. The digit must be smaller than 255, please input an appropriate number again and press [ENTER] to confirm.

Delete Preset Position: [PRESET] + [N] + [CAM ID]

If the input digit is bigger than 255, the same error message above will be appear.

Call the Preset Position: [CALL] + [N] + [ENTER]

Display: Call No.:001

Description: N— Number of Call position from 1 to 255.

Input digit directly to change number, and press [CLEAR] to delete the input digits.

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

[PRESET]+ [ENTER]: Save current preset position as No.1 and back to home page.

If you enter a number bigger than 255 and press [ENTER],

Display: Input No.:001

Error: Preset No.

Description: It indicates the number entered is wrong. The digit must be smaller than 255, please input an appropriate number again and press [ENTER] to confirm.

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② * Tour Function

Indication: Tour function will arrange the presets into the queue of auto-tour, and can set how long it will park at present, operate auto-tour is a process of incessantly transfer each preset.

Set the Cruise Track:

Enter the Status of Track Setting: [TOUR] + [N]
(N: Number of track from 1 to 6)

Display: Track=N Sum=16
Range: 1~6

Description: Track No. N is currently setting, in which there are 16 preset points. If the number is over 6, LCD will show:

Input No.:001
Error: Track No.

Input number from 1~6 and press [ENTER] will get the next display.

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No.:01 Preset=001 → Input number(1-255) and refer it as the first preset location in the track.

Speed=1 Dwell001 → Description: *Speed* is the speed of the preset point in the track. Speed Range: 1 to 8, from the fastest to the lowest. *Dwell* is the dwelling time of the preset point in the track, the range 1 to 255.

After setting 1st preset point, press [DOWN] to set 2nd, 3rd preset point etc, [UP] to the previous preset point.

Note: When the No. N preset point is set 0, then all preset points before N in the track will be valid, however all preset points after N (including N) and their speed and dwelling time shall be set as 0 automatically.

Press [ENTER] to save the cruise track N and exit to home page, and [CAM ID/F4] key to exit without storage.

Run Cruise Track: [TOUR] + [N] + [TOUR]

Description: N — No. of the track from 1 to 6.

Function: Tour the No. N track and stop tour by pushing any of [UP],[DOWN],[LEFT],[RIGHT].

Cancel Cruise Track: [TOUR] + [N] + [CLEAR]

Description: N — No. of the track from 1 to 6.

Function: Delete the No. N track.

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After setting 1st preset point, press [DOWN] to set 2nd, 3rd preset point etc, [UP] to the previous preset point.

Note: When the No. N preset point is set 0, then all preset points before N in the track will be valid, however all preset points after N (including N) and their speed and dwelling time shall be set as 0 automatically.

Press [ENTER] to save the cruise track N and exit to home page, and [CAM ID/F4] key to exit without storage.

Run Cruise Track: [TOUR] + [N] + [TOUR]

Description: N — No. of the track from 1 to 6.

Function: Tour the No. N track and stop tour by pushing any of [UP],[DOWN],[LEFT],[RIGHT].

Cancel Cruise Track: [TOUR] + [N] + [CLEAR]

Description: N — No. of the track from 1 to 6.

Function: Delete the No. N track.

No.:01 Preset=001 → Input number(1-255) and refer it as the first preset location in the track.

Speed=1 Dwell001 → Description: *Speed* is the speed of the preset point in the track. Speed Range: 1 to 8, from the fastest to the lowest. *Dwell* is the dwelling time of the preset point in the track, the range 1 to 255.

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③ Scan Function

Indication: Scan is that pre-set two points, then the camera repeatedly scan between the two points at a stable speed, the same magnification and pan.
[SHIFT]+[TOUR]+[1] → Set “Left Limit Stop”
[SHIFT]+[TOUR]+[2] → Set “Right Limit Stop”
[SHIFT]+[TOUR]+[ENTER] → Start scan operation, press any of [UP],[DOWN],[LEFT],[RIGHT] keys to stop the action.

Note:

Left limit and Right limit of scan can't be set the same point. During scan process, speed magnification and tilt direction won't change, if these parameters of the two limits are inconsistent, run scan is based on the left limit.

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4: Pattern function

Pattern is that domes can record tracks including a series of pan/tilt control and lens controlling command.

[SHIFT]+ [TOUR]+[3] → Set the Starting Pattern Position

[SHIFT]+ [TOUR]+[4] → Set the Ending Pattern Position

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8. Other functions

[SHFIT]+[8] → Version of the keypad display

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Technical Specification

Communication between controller and receiver: Port to multi-port and half duplex function
Communication interface: RS485
Baud Rate option:
2400, 4800, 9600, 19200bps
Protocol option:
Pelco-D, Pelco-P, I Vision
Dimension: 130.5x78.5x15.0 (mm)
Weight: 85(g)

Packing List

Mini keypad 1pcs
User manual 1pcs
RS485 attached terminal 1pcs
Power connector converter (Optionally used) 1pcs

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Appendix: RS485 bus basic knowledge

Characteristics of RS485

As specified by RS485 standard, RS485 bus is of half-duplex data transmission cables with characteristic impedance as 120Ω. The maximum load capacity is 32 unit loads (including main controller and controller equipment)

Transmission distance of RS485 Bus

When user selects the 0.56mm (24AWG) twisted pair wires as data transmission cable, the maximum theoretical transmitting distance are as follows:

Baud Rate	Max distance (mm)
2400bps	1800
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If user selects thinner cables, or installs the receive terminal in an environment with strong electromagnetic interference, or connects lots of equipment to the RS485 bus, the maximum transmitting distance will be decreased. To increase the maximum transmitting distance, do the contrary.

Connection and termination resistor

The RS485 bus standards require a daisy-chain connection between the equipment. There must be termination resistors with 120Ω (as the Figure 1).Please refer to Figure 2 for simple connection, D should not exceed 7m.

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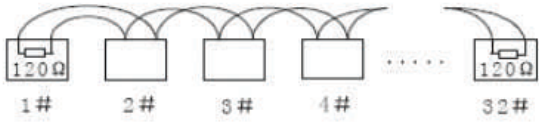


Figure 1

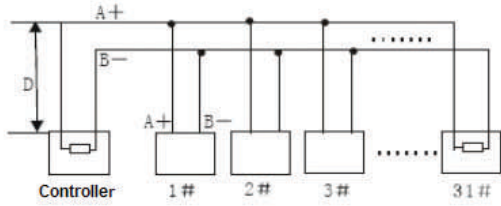


Figure 2.

(Note: The two resistor value in Figure 2 is 120Ω, some termination resistor is available on the receive terminal, please refer to the corresponding manual for the detail setting.)

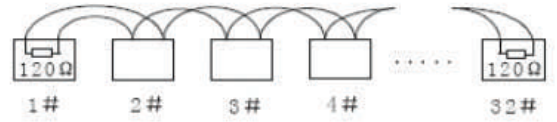


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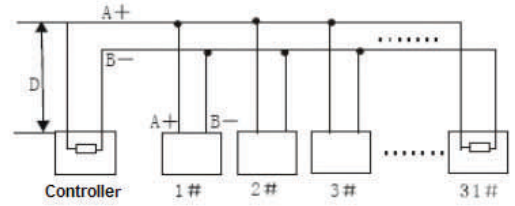


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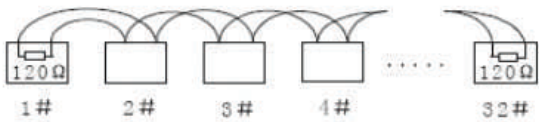


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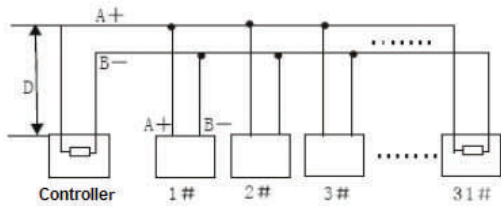


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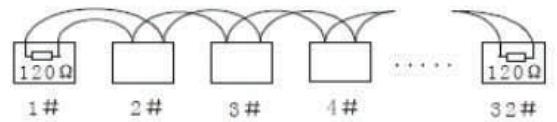


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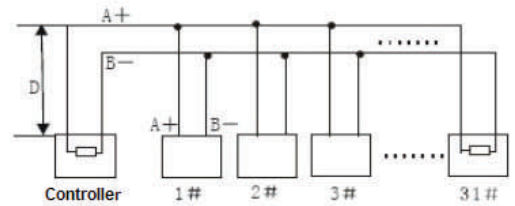


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RS485 bus troubles shooting

Trouble	Possible cause	Solution
Receiver can work but cannot be controlled	a: The address, baud rate and protocol setting of dome are not in conformity with those of controller b: The + and – connection of RS485 bus is incorrect. c: Bad connection. d: There are circuit in the RS485 bus	a: Change these setting in controller or dome. b: Adjust the + and – connection of RS485. c: Make sure the connection are fully seated d: Change RS485 bus wires
Receive can be controlled but the operation is not smooth	a: The RS485 bus is not good contact with the connectors. b: One wire of RS485 bus is broken c: The terminal is very far from controller. d: There are two many terminals connected in the system.	a: Secure the connection b: Replace RS485 bus wire c: Add termination resistor to the system. d: Install RS485 distributor

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