

# **Standalone Special Keyboard KD-402**

# **User Manual**

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1

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## Note:

Thank you for choosing our KD-402 keyboard, Please pay attention to the instructions before operation.

- w Keep away from the heat sources and high temperature environment, and avoid the direct irradiation of the sunlight;
- w Do not leave in humid places and never touch with wet hands;
- w Never spill liquid of any kind on the unit to prevent short circuit and fire;
- w Please place steady and don't put any other equipment on the unit;
- w Avoid install in places shaking violently;
- w Do not use it when the voltage is too high or too low;
- w Please pay attention to you select keyboard's power supply import SPEC is fit your local power supply.

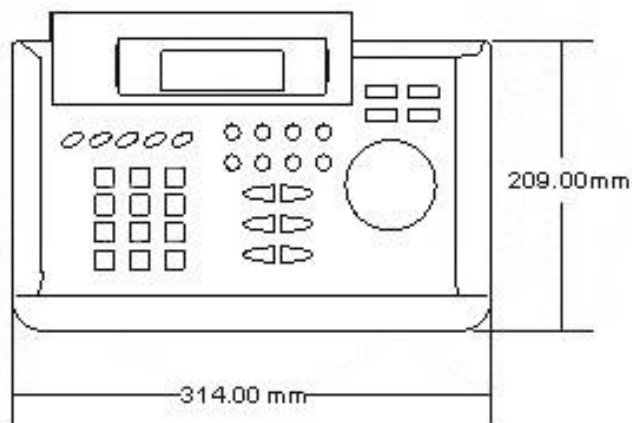
## Summarize

KD-402 keyboard is special keyboard for the **ThermalTronix TT-1150PXB2-DVACS** device, the connection use EIA/RS485 ports. One keyboard can most control up to 32 **ThermalTronix TT-1150PXB2-DVACS** units without local bus driver, the max. Distance can be attaining to 1.2 kilometers.

## Technical specifications

1. Communication mode: Half-Duplex and spot to multi-spots
2. Standard of communicate port: RS-485
3. Baud rate: 1200bps、200bps、4800bps or 9600bps
4. Max. distance: 1200M
5. Power supply: DC 9V
6. Max supported devices that can be controlled: 32 pcs

## Keyboard figure size



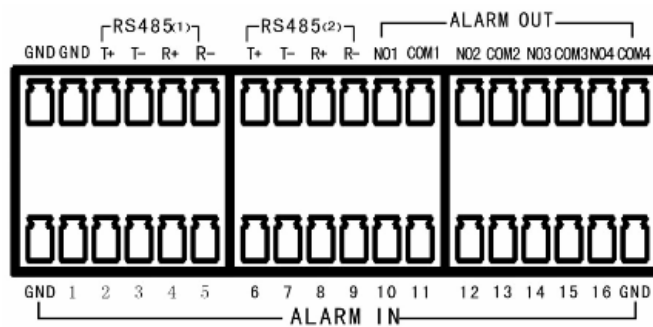
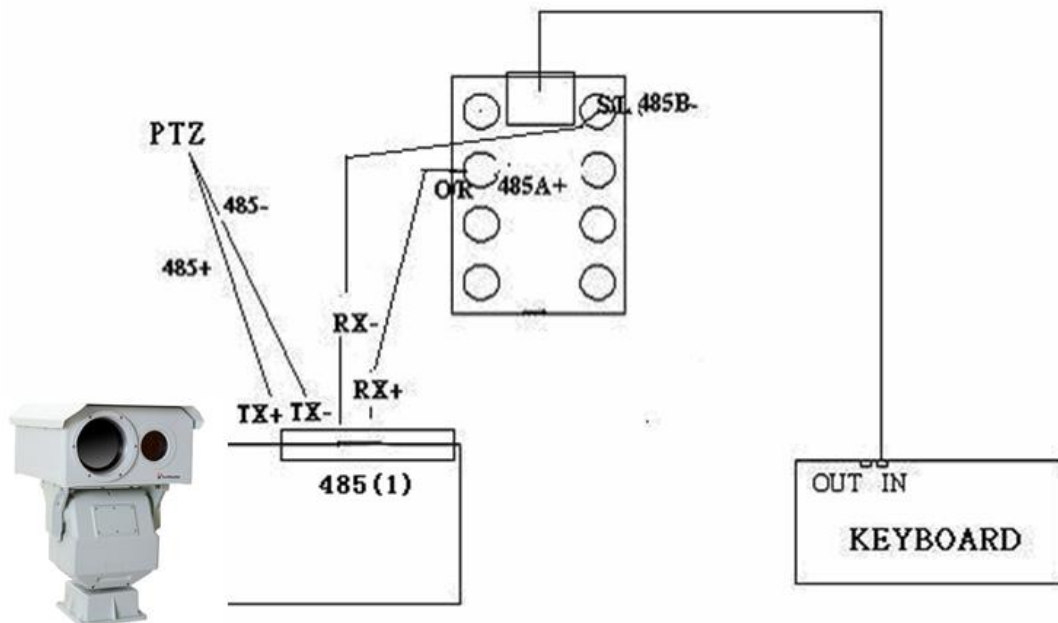
- **Basic functions:**

Items	Introductio
0	Number key "0"
1	1. Number key '1'; 2. Shelter area enable
2	2. Number key '2'; 2. Shelter area disable
3—9	Number key '3-9'
TOUR	Plus 10
MENU	Entering system menu mode
LEFT	Direction key 'LEFT';
RIGHT	Direction key 'RIGHT';
DOWN	1. Direction key 'DOWN' 2. Hide the status column in preview mode
UP	1. Direction key 'UP'; 2. Display the status column in preview mode
MUX-C	1. Entering "Handle Record"; 2. Set the mask area position; 3. Enter the Input mode window; 4. Switch the input method in input mode interface
ENTER	1. "OK" key 2. Set up mute mode and cancel mute mode (apply to MPF and
CLEAR	1. "Cancel" key 2. Clear alarm beep
PGM	Channel auto-switching (sequencing)
WIDE	Delete current character in input mode window
AUX1	1. Entering "Search dialog"; 2. Select the character in input mode window
AUX2	Split screen mode switch, switch between 16\9\6\4\single screen mode
AUX3	PTZ enable switch
AUX4	Entering "Backup Dialog"

- **Keyboard Connection with *ThermalTronix* TT-1150PXB2-DVACS**

O/R: Connect RS-485+A

S/L: Connect RS-485-B



KD-402 can only be connected through "R+, R-" in **485(1)** port.

- **Operation steps:**

## 1. Login *ThermalTronix* TT-1150PXB2-DVACS

**First step:** Make the connection well and then press button “**WIDE**”, follow below configuration: Input number 12 and press Button **PGM** to set the baud rate at 1200  
Input number 24 and press Button **PGM** to set the baud rate at 2400  
Input number 48 and press Button **PGM** to set the baud rate at 4800  
Input number 96 and press Button **PGM** to set the baud rate at 9600

**In baud rate/ Serial port / Network / Menu. it must be same as above setup**

### **Second step:**

1. Press Button **WIDE** and input *ThermalTronix* TT-1150PXB2-DVACS's ID (i.e. 001). Then press button **MON**.
2. If you want to control the PTZ, you should input the PTZ ID, which connected with the *ThermalTronix* TT-1150PXB2-DVACS. Then press button **CAM**.
3. Press button **PATTERN** and **SHIFT** (keep them on light). Then press button **MENU**.  
If the homologous interface appears on screen, the connections succeed. You can use your password to login or operate the *ThermalTronix* TT-1150PXB2-DVACS, such as: real time monitoring, playback, control PTZ or speed Dome, etc.

**Note:** when switch another *ThermalTronix* TT-1150PXB2-DVACS, just press button **PATTERN** and button **SHIFT**, then please follow “Login *ThermalTronix* TT-1150PXB2-DVACS”.

## 2. Monitoring

Press numeric keys to switch over individual camera preview. Switch to 1-9 channel can be finished by pressing one corresponding numeric key, for example press key 2 to preview the 2nd camera; switch to a channel number bigger than 10 has to press “TOUR” and other corresponding numeric keys, for example press “TOUR”, “1” and “2” keys to preview the 12th camera.

**Note:** When don't need to switch to a channel number bigger than 10, please turn off the “TOUR”.

Press “AUX2” key to switch split screen and single screen mode.



## 3. Playback

Press “AUX1” button to enter into “Playback” interface directly. You can set most 4-ch synchronous playback and blowing keys can be used:

Items	Introduction
left	Playback forward slowly at *1/2, *1/4
right	Playback forward fast at *2, *4, *8
up	Playback in pip mode
BEFORE	Jump to previous recorded file.
NEXT	Jump to next recorded file.
ENTER	Set up mute mode and cancel mute mode (apply to MPF and MPC model)
NEAR	Jump backward
FAR	Jump forward
TELE	Pause playback
WIDE	Stop playback operation
AUX1	Entering “Search dialog”
AUX2	Multi-image play back mode switch

## 4. PTZ and Speed control

Press “AUX3” key to enter PTZ direction control mode. Use rocker to control the direction of PTZ; Then press “PGM” to enter the lens control mode. In this mode, you can control the lens and focus of PTZ. Then press “PGM” to enter the aperture control mode. In this mode, press “PGM” again to enter the PTZ direction control mode. Press “CLEAR” to quit PTZ control mode and return to normal mode.

Items	Introductio
Left	1. Left control in PTZ direction control mode 2. Zoom+ in PTZ lens control Mode 3. Aperture+ in PTZ aperture control mode
Right	1. Right control in PTZ direction control mode 2. Zoom- in PTZ lens control Mode 3. Aperture- in PTZ aperture control mode
Down	1. Down control in PTZ direction control mode 2. Focus- in PTZ focus control
Up	1. Up control in PTZ direction control mode 2. Focus+ in PTZ focus control
MUX-C	Light control in PTZ mode
PGM	PTZ, lens and aperture mode switch
AUX1	Entering “interface for preset” in PTZ mode
AUX2	Auto cruise in PTZ mode
AUX4	Entering “interface for cruise” in PTZ mode

## 5. Matrix control

When the matrix output is auto-switch, and you want to check a channel, please operate as follows: 1.Choose the output channel that you connect to the monitor, the item as follows:

Items	Introduction
FAR	Matrix output channel 1
Right	Matrix output channel 2
Down	Matrix output channel 3
Up	Matrix output channel 4

- 2.Choose the **ThermalTronix TT-1150PXB2-DVACS** 's channel you want to check by press the corresponding number key.
- If you want to check **ThermalTronix TT-1150PXB2-DVACS** 's channel 2 in matrix channel 1, you should choose "FAR", then press number key "2".



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