Network UDP protocol and serial port protocol

1. Control method

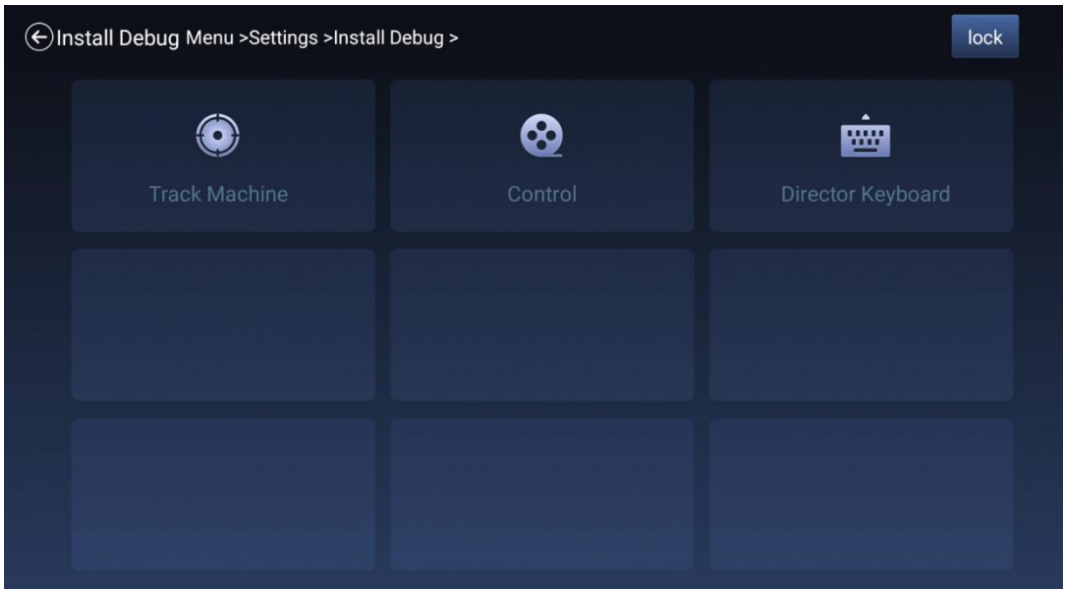
1.1 Network control

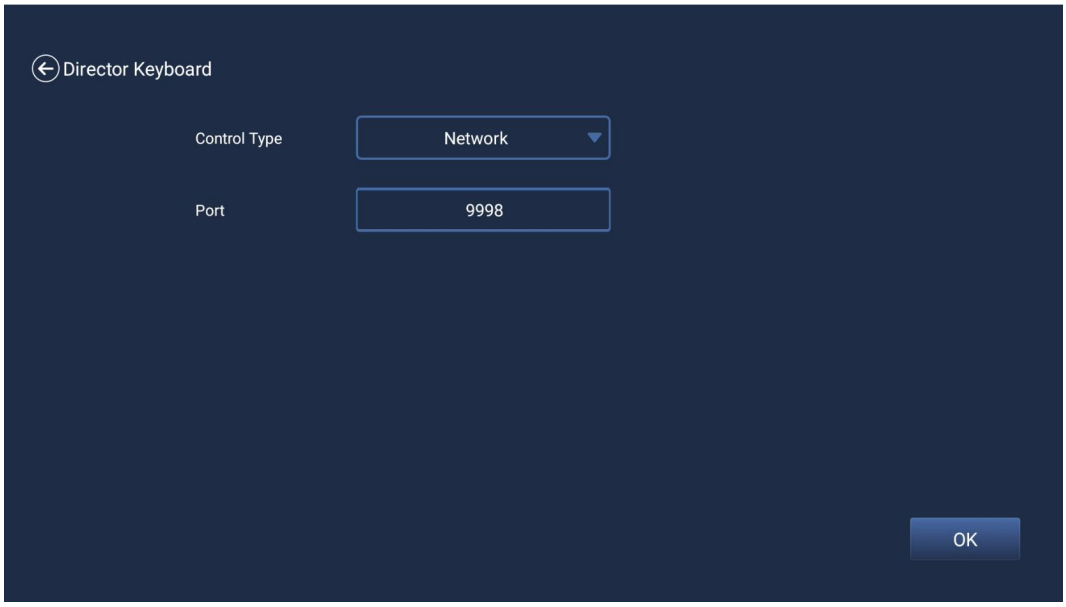
The recorder settings are as follows:

[Menu]-[Settings]-[Install Debug]-[Director Keyboard]

Control Type: Network

Port number: 9998





1.2 Serial port control

Baud rate: 9600, Data bits: 8, Stop bits: 1, Parity bit: None

1.2.1 COM port connection

① If the control port of the recorder is a Phoenix terminal, the wiring can be done according to the definition of the chassis silk screen.

② If the COM port of the recorder is an RJ45 interface, the line sequence (568B) is defined as follows:

1. null
2. null
3. 232_RX
4. GND
5. 232_TX
6. GND
7. 485A
8. 485B

1.2.2 Set the serial port number

The recorder settings are as follows:

[Menu]-[Settings]-[Install Debug]-[Director Keyboard]

Control Type: COM

Serial: COM_RS232

Select the corresponding COM port connected to the recorder (if the COM port connected to the recorder is COM1, select COM1_RS232)



2. Control Commands

2.1 Director Control

Start recording:

EE 30 C0 0A 1A 00 00 00 FE FF

Pause recording:

EE 30 C0 0A 1B 00 00 00 FE FF

Stop recording:

EE 30 C0 0A 1C 00 00 00 FE FF

Fully automatic:

EE 30 C0 0A 1D 00 00 00 FE FF

Manual：
EE 30 C0 0A 1E 00 00 00 FE FF
Start/stop streaming:
EE 30 C0 0A 0A 00 00 00 FE FF
One-button start/one-button stop:
EE 30 C0 0A 35 00 00 00 FE FF

2.2 Channel Selection
Select channel 1:
EE 30 C0 0A 28 00 00 00 FE FF
Select channel 2:
EE 30 C0 0A 29 00 00 00 FE FF
Select channel 3:
EE 30 C0 0A 2A 00 00 00 FE FF
Select channel 4:
EE 30 C0 0A 2B 00 00 00 FE FF
Select channel 5:
EE 30 C0 0A 2C 00 00 00 FE FF

2.3 Screen Split
Single screen:
EE 30 C0 0A 33 00 00 00 FE FF (Repeat this command to quickly switch between p-i-p)
Two-screen split:
EE 30 C0 0A 0D 00 00 00 FE FF (Repeat this command to quickly switch between p-i-p)
Three-screen split:
EE 30 C0 0A 34 00 00 00 FE FF (Repeat this command to quickly switch between p-i-p)
P-I-P:
EE 30 C0 0A 0C 00 00 00 FE FF

2.4 Press to switch
After selecting a channel, press 1A to switch channel 1 to the PGM screen, and press 2A to switch channel 2 to the PGM screen.

Press 1A:
EE 30 C0 0A 01 00 00 00 FE FF
Press 2A:
EE 30 C0 0A 02 00 00 00 FE FF
Press 3A:
EE 30 C0 0A 03 00 00 00 FE FF
Press 4A:
EE 30 C0 0A 04 00 00 00 FE FF
Press 5A:
EE 30 C0 0A 05 00 00 00 FE FF

When selecting the three-screen mode, pressing 1A means switching channel 1 to the A screen of PGM, pressing 2B means switching channel 2 to the B screen of PGM, and so on. Pressing 3C means switching channel 3 to the C screen of PGM.

Press 1A:
EE 30 C0 0A 01 00 00 00 FE FF
Press 2A:
EE 30 C0 0A 02 00 00 00 FE FF
Press 3A:
EE 30 C0 0A 03 00 00 00 FE FF
Press 4A:
EE 30 C0 0A 04 00 00 00 FE FF
Press 5A:
EE 30 C0 0A 05 00 00 00 FE FF
Press 1B:
EE 30 C0 0A 1F 00 00 00 FE FF
Press 2B:
EE 30 C0 0A 20 00 00 00 FE FF
Press 3B:
EE 30 C0 0A 21 00 00 00 FE FF
Press 4B:
EE 30 C0 0A 22 00 00 00 FE FF
Press 5B:
EE 30 C0 0A 23 00 00 00 FE FF
Press 1C:
EE 30 C0 0A 38 00 00 00 FE FF
Press 2C:
EE 30 C0 0A 39 00 00 00 FE FF
Press 3C:
EE 30 C0 0A 3A 00 00 00 FE FF
Press 4C:
EE 30 C0 0A 3B 00 00 00 FE FF
Press 5C:
EE 30 C0 0A 3C 00 00 00 FE FF