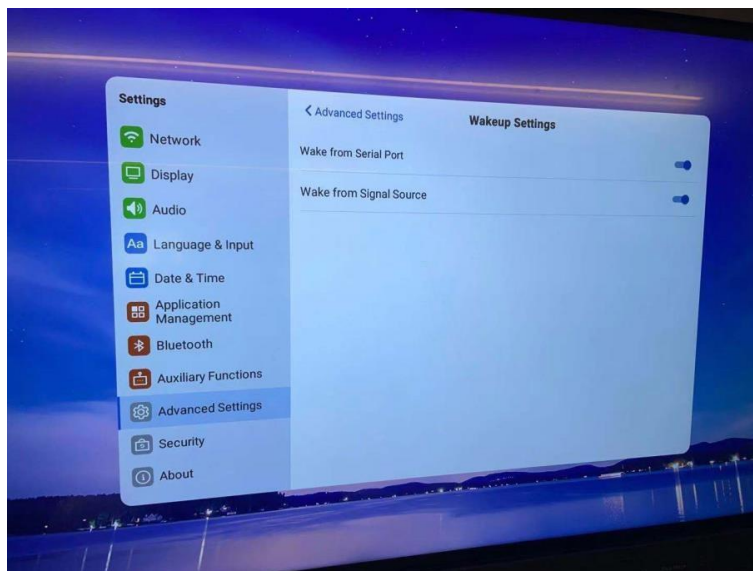**HIKVISION**

How to use RS232 to control Interactive Display

1. Interactive Tablet system settings
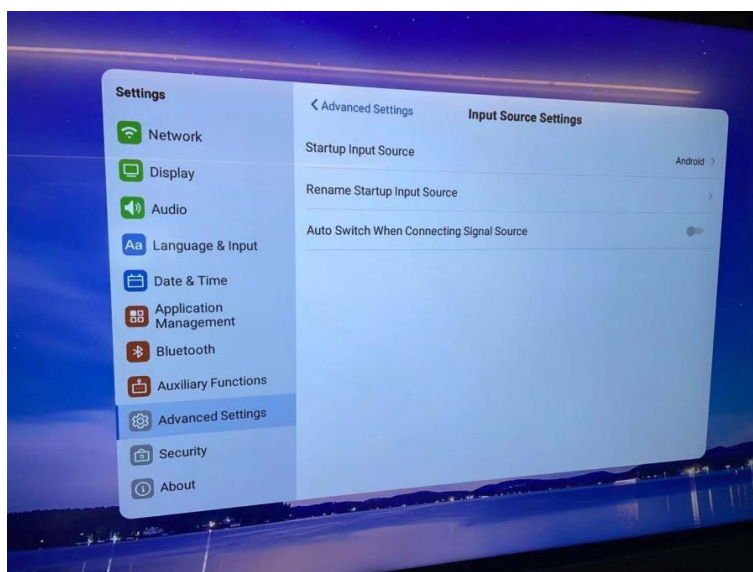
1.1 Advanced Settings

Turn on "wake from serial port" on the interactive display. You need set parameters as pic.1.
Select Settings > Advanced Settings > Wakeup settings.

Pic.1

1.2 Input Source Settings

Turn off "auto switch when connecting signal source", You need set parameters as pic.2
Select Settings > Advanced Setting > Auto Switch When Connecting Signal Source. You need set parameters as follows.

Pic.2

2. Instruction of wiring

Use **DB9 to RJ45 cable** (as shown in Pic.3) to connect the RS232 port (RJ45 interface) of the interactive display, and connect the control port of the computer. If the computer does not have a serial port interface, for example, a laptop, you can add another USB to serial port cable (as shown in Pic.4)
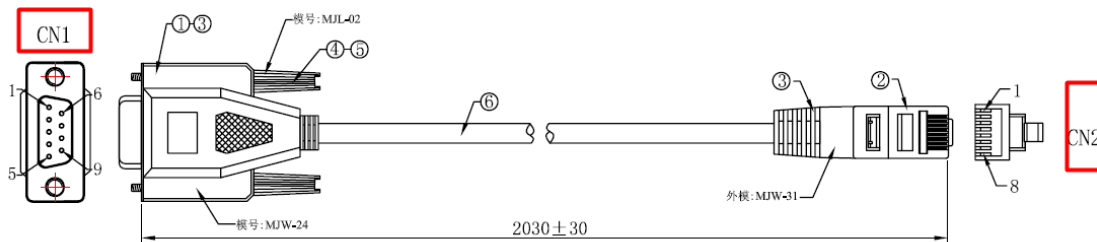

Pic.3   Pic.4

Note:

DB9 to RJ45 cable can be purchased from Hikvision, you can also make by you own.

Connection table	
CN1 (DB9)	CN2 (RJ45)
4 DTR	1 DCD
3 TXD	2 RXD
2 RXD	3 TXD
7 RTS	4 CTS
8 CTS	5 RTS
1 DCD	6 DTR
5 GND	7 GND
6 DSR	8 DTR

Acctually you need only connect the yellow pins above.

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3. Control Protocol Description

The serial port control protocol is the external control interface, and the detailed control protocol information is shown in Table 3-1, in which the control protocol adopts hexadecimal system. The control protocol is processed in the following configuration:

Baud rate: 115200;

Parity: none;

Data bits: 8;

Stop bits: 1

And time interval of each command should be greater than 200ms.

Function	Command (hexadecimal)				Remark
POWER_Off	30	02	76	20	
POWER_On	20	20	53	43	
Mute	30	02	01	5F	
1	30	02	01	01	Andriod/(Extensible PC)
2	30	02	01	02	Andriod/(Extensible PC)
3	30	02	01	03	Andriod/(Extensible PC)
4	30	02	01	04	Andriod/(Extensible PC)
5	30	02	01	05	Andriod/(Extensible PC)
6	30	02	01	06	Andriod/(Extensible PC)
7	30	02	01	07	Andriod/(Extensible PC)
8	30	02	01	08	Andriod/(Extensible PC)
9	30	02	01	09	Andriod/(Extensible PC)
0	30	02	01	00	Andriod/(Extensible PC)
LEFT	30	02	01	33	Andriod/(Extensible PC)
RIGHT	30	02	01	30	Andriod/(Extensible PC)
DOWN	30	02	01	53	Andriod/(Extensible PC)
UP	30	02	01	50	Andriod/(Extensible PC)
VGA	30	02	01	A1	
HDMI1	30	02	01	A3	
HDMI2	30	02	01	A4	
OPS	30	02	01	A7	
Android	30	02	01	A8	

Note: we can use some software like SUDT AccessPort to control interactive display.

Revision

日期	修订版本	针对型号	作者	审核
2022-11-24	Version 1.0		Daniel Tang	
2023-02-16	Version 2.0		Daniel Tang	