

# i3TOUCH V-SENSE

5502T10 & 6502T10

RS232 UART COMMUNICATION PROTOCOL



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# 1. UART communication protocol introduction

Through the TV and the PC UART communication, not only to achieve PC simulation of the IR control function, but also can realize timely read TV general settings, such as brightness, contrast, color, volume and other parameters.

## 2. UART command standard

### 2.2 UART write command list

function	Required Commands
POWER	0x55-0x00(x)-0x8E-0X00-0XE3
SOURCE	0x55-0x00(x)-0x80-0X00-0XD5
Up	0x55-0x00(x)-0x00-0x01-0x56
Down	0x55-0x00(x)-0x00-0x02-0x57
Left	0x55-0x00(x)-0x00-0x03-0x58
Right	0x55-0x00(x)-0x00-0x04-0x59
OK	0x55-0x00(x)-0x00-0x00-0x55
Menu	0x55-0x00(x)-0x14-0x00-0x69
Exit	0x55-0x00(x)-0x16-0x00-0x6B
Info	0x55-0x00(x)-0x18-0x00-0x6D
Mute	0x55-0x00(x)-0x1A-0x00-0x6F
Fav	0x55-0x00(x)-0x1E-0x00-0x73
Sleep Mode	0x55-0x00(x)-0x20-0x00-0x75
Sound Mode	0x55-0x00(x)-0x22-0x00-0x77
Picture mode	0x55-0x00(x)-0x28-0x00-0x7D
Set Sleep Timer	0x55-0x00(x)-0x4A-0x00-0x9F
Aspect	0x55-0x00(x)-0x4C-0x00-0XA1

Volume plus(+)	0x55-0x00(x)-0x0C-0x00-0x61
Volume plus(-)	0x55-0x00(x)-0x0E-0x00-0x63
Channel plus(+)	0x55-0x00(x)-0x10-0x00-0x65
Channel plus(-)	0x55-0x00(x)-0x12-0x00-0x67
Return	0x55-0x00(x)-0x0A-0x00-0x5F
Auto Scan	0x55-0x00(x)-0x58-0x00-0xAD
Switch to TV	0x55-0x00(x)-0x80-0x01-0xD6
Switch to AV	0x55-0x00(x)-0x80-0x02-0xD7
Switch to Scart	0x55-0x00(x)-0x80-0x03-0xD8
Switch to YPBPR	0x55-0x00(x)-0x80-0x04-0xD9
Switch to VGA	0x55-0x00(x)-0x80-0x05-0xDA
Switch to HDMI	0x55-0x00(x)-0x80-0x06-0xDB
Set Contrast	0x55-0x00(x)-0x2A-0x00-0x7F
Set Brightness	0x55-0x00(x)-0x2C-0x00-0x81
Set Saturation	0x55-0x00(x)-0x2E-0x00-0x83
Set HUE	0x55-0x00(x)-0x30-0x00-0x85
Set Sharpness	0x55-0x00(x)-0x32-0x00-0x87
Set Color Temp	0x55-0x00(x)-0x34-0x00-0x89
Set Reduction noise	0x55-0x00(x)-0x36-0x00-0x8B
Set BASS	0x55-0x00(x)-0x3A-0x00-0x8F
Set Treble	0x55-0x00(x)-0x3C-0x00-0x91
Set Balance	0x55-0x00(x)-0x3E-0x00-0x93
Set Language(0,1,2,3,,,,)	0x55-0x00(x)-0x42-0x00-0x97
Enter factory Menu	0x55-0x00(x)-0x82-0x00-0xD7
Factory Reset	0x55-0x00(x)-0x84-0x00-0xD9
Burning	0x55-0x00(x)-0x86-0x00-0xDB

## 2.3 UART read command list

Function	Required	Information
SOURCE	0x55-0x00(x)-0x81-0X00-0XD6	Date (byte 4) information- 0x01:TV 0x02:AV 0x03:YPR 0x04:SCART 0X05:VGA 0X06:HDMI
Contrast	0x55-0x00(x)-0x2B-0x00-0x80	date(byte 4) information- Is the contrast value (hex)
Saturation	0x55-0x00(x)-0x2F-0x00-0x84	Date (byte 4) information- Is the saturation value (hex)
HUE	0x55-0x00(x)-0x31-0x00-0x86	Date (byte 4) information- Is the HUE value (hex)
Sharpness	0x55-0x00(x)-0x33-0x00-0x88	Date (byte 4) information- Is the Sharpness value (hex)
Color Temp	0x55-0x00(x)-0x35-0x00-0x8A	0x00: cool 0x01:medium 0x02:warm 0x03:user
Reduction noise	0x55-0x00(x)-0x37-0x00-0x8C	0x00: OFF 0x01:lower 0x02:high 0x03:auto 0x04:default
BASS	0x55-0x00(x)-0x3B-0x00-0x90	Date (byte 4) information- Is the BASS value (hex)
Treble	0x55-0x00(x)-0x3D-0x00-0x92	Date (byte 4) information- Is the Treble value (hex)
Balance	0x55-0x00(x)-0x3F-0x00-0x94	Date (byte 4) information- Is the Balance value (hex) TV Status
query	0x55-0x00(x)-0x45-0x00-0x9A	0x01:Power on 0x02:Standby

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