

# RS-232 Specification

## Important:

*This document is applicable to the following products and models.*

*NovoTouch LK-1 series **LK6530i**, **LK7530i**, and **LK8630i**.*

*NovoTouch EK-1 series **EK650i**, **EK750i** and **EK860i***

*NovoTouch EK-2 series **EK653i**, **EK753i**, and **EK863i**.*

## Serial Port Settings:

Item	Value
Baud Rate	9600 bps (Fixed)
Data Bits	8 (Fixed)
Stop Bits	1 (Fixed)
Parity	None (Fixed)

## Command Format:

No.	Content	Description	Remark
1	0xAA	Head	Fixed Value
2	0xBB		Fixed Value
3	0xCC		Fixed Value
4	□	Main	□
5	□	Subcommand	□
6	0x00	Length	Valid data
7	Checksum	Checksum	Sum from No.4 to No.6
8	0xDD	End	Fixed Value
9	0xEE		Fixed Value
10	0xFF		Fixed Value

# Code List

Function	Mode	Code	Remark
Power	On	AA BB CC 01 00 00 01 DD EE FF	□
	Off	AA BB CC 01 01 00 02 DD EE FF	□
Source	VGA	AA BB CC 02 03 00 05 DD EE FF	□
	HDMI 1	AA BB CC 02 06 00 08 DD EE FF	□
	HDMI 2	AA BB CC 02 07 00 09 DD EE FF	□
	HDMI 3	AA BB CC 02 05 00 07 DD EE FF	□
	PC	AA BB CC 02 0E 00 10 DD EE FF	□
	ANDROID	AA BB CC 02 0A 00 0C DD EE FF	□
	ANDROID+	AA BB CC 02 0E 00 10 DD EE FF	□
	DP	AA BB CC 02 11 00 13 DD EE FF	□
Volume	000-100	AA BB CC 03 00 xx ** DD EE FF	□
	Mute	AA BB CC 03 01 00 04 DD EE FF	□
	Unmute	AA BB CC 03 01 01 05 DD EE FF	□
Aspect Ratio	16:09	AA BB CC 08 00 00 08 DD EE FF	□
	04:03	AA BB CC 08 01 00 09 DD EE FF	□
	PTP	AA BB CC 08 07 00 0F DD EE FF	□
PC Power	On	AA BB CC 09 01 00 0A DD EE FF	□
	Off	AA BB CC 09 00 00 09 DD EE FF	□
xx = from 0 to 100 (Volume)			
E.g. Volume = 30 (Devimal) = 1E (Hex)			
xx = 1E and ** = 03 (Hex) +1E (Hex) = 21 (Hex)			

Remote Control

Windows	AA BB CC 07 0B 00 12 DD EE FF	□
Space	AA BB CC 07 46 00 4D DD EE FF	□
Alt+Tab	AA BB CC 07 1D 00 24 DD EE FF	□
Alt+F4	AA BB CC 07 1F 00 26 DD EE FF	□
Num_1	AA BB CC 07 00 00 07 DD EE FF	□
Num_2	AA BB CC 07 10 00 17 DD EE FF	□
Num_3	AA BB CC 07 11 00 18 DD EE FF	□
Num_4	AA BB CC 07 13 00 1A DD EE FF	□
Num_5	AA BB CC 07 14 00 1B DD EE FF	□
Num_6	AA BB CC 07 15 00 1C DD EE FF	□
Num_7	AA BB CC 07 17 00 1E DD EE FF	□
Num_8	AA BB CC 07 18 00 1F DD EE FF	□
Num_9	AA BB CC 07 19 00 20 DD EE FF	□
Num_0	AA BB CC 07 1B 00 22 DD EE FF	□
Display	AA BB CC 07 1C 00 23 DD EE FF	□
Refresh	AA BB CC 07 4C 00 53 DD EE FF	□
Input	AA BB CC 07 07 00 0E DD EE FF	□
Home	AA BB CC 07 48 00 4F DD EE FF	□
Menu	AA BB CC 07 0D 00 14 DD EE FF	□
Delete	AA BB CC 07 40 00 47 DD EE FF	□
Energy	AA BB CC 07 4E 00 55 DD EE FF	□
Up	AA BB CC 07 47 00 4E DD EE FF	□
Down	AA BB CC 07 4D 00 54 DD EE FF	□
Left	AA BB CC 07 49 00 50 DD EE FF	□
Right	AA BB CC 07 4B 00 52 DD EE FF	□
Enter	AA BB CC 07 4A 00 51 DD EE FF	□
Point	AA BB CC 07 06 00 0D DD EE FF	□
Back	AA BB CC 07 0A 00 11 DD EE FF	□
CH +	AA BB CC 07 02 00 09 DD EE FF	□
CH -	AA BB CC 07 09 00 10 DD EE FF	□
Vol +	AA BB CC 07 03 00 0A DD EE FF	□
Vol -	AA BB CC 07 41 00 48 DD EE FF	□
PageUp	AA BB CC 07 42 00 49 DD EE FF	□
PageDown	AA BB CC 07 0F 00 16 DD EE FF	□
F1	AA BB CC 07 45 00 4C DD EE FF	□
F2	AA BB CC 07 12 00 19 DD EE FF	□
F3	AA BB CC 07 51 00 58 DD EE FF	□
F4	AA BB CC 07 5B 00 62 DD EE FF	□
F5	AA BB CC 07 44 00 4B DD EE FF	□
F6	AA BB CC 07 50 00 57 DD EE FF	□
F7	AA BB CC 07 43 00 4A DD EE FF	□
F8	AA BB CC 07 1A 00 0B DD EE FF	□
F9	AA BB CC 07 04 00 0B DD EE FF	□
F10	AA BB CC 07 59 00 60 DD EE FF	□
F11	AA BB CC 07 57 00 5E DD EE FF	□
F12	AA BB CC 07 08 00 0F DD EE FF	□
Red	AA BB CC 07 5C 00 63 DD EE FF	□
Green	AA BB CC 07 5D 00 64 DD EE FF	□
Yellow	AA BB CC 07 5E 00 65 DD EE FF	□
Blue	AA BB CC 07 5F 00 66 DD EE FF	□

# Polling Code List

Function	Code	Response	Status
Power Status	AA BB CC 01 02 00 03 DD EE FF	AA BB CC 80 00 00 80 DD EE FF	On
		AA BB CC 80 00 00 80 DD EE FF	Off
Volume Status	AA BB CC 03 02 00 05 DD EE FF	AA BB CC 82 00 xx ** DD EE FF	Volume = xx
Mute Status	AA BB CC 03 03 00 06 DD EE FF	AA BB CC 82 01 00 83 DD EE FF	Mute
		AA BB CC 82 01 01 84 DD EE FF	Unmute
Source Status	AA BB CC 02 00 00 02 DD EE FF	AA BB CC 81 03 00 84 DD EE FF	VGA
		AA BB CC 81 0E 00 8F DD EE FF	ANDROID+
		AA BB CC 81 05 00 86 DD EE FF	HDMI 3
		AA BB CC 81 06 00 87 DD EE FF	HDMI 1
		AA BB CC 81 07 00 88 DD EE FF	HDMI 2
		AA BB CC 81 08 00 89 DD EE FF	PC
		AA BB CC 81 0A 00 8B DD EE FF	ANDROID+
		AA BB CC 81 11 00 92 DD EE FF	DP
PC Status	AA BB CC 09 02 00 0B DD EE FF	AA BB CC 83 00 00 82 DD EE FF	On
		AA BB CC 83 01 00 84 DD EE FF	Off
		AA BB CC 83 02 00 85 DD EE FF	Sleep
		AA BB CC 83 03 00 86 DD EE FF	Hibernate

