

# 4.4 RS-232 Specification

## Important:

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

***NovoTouch BK series BK650i, BK750i, and BK860i.***

## Serial Port Settings:

Item	Value
Baud Rate	115200 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

No.	Description	Code (TX)
-----	-------------	-----------

1	Power On	99 A2 01 01 27 AA
2	Power Off	99 A2 FD 00 00 AA
3	HOME	99 23 00 01 FF AA
4	Mute	99 23 02 01 FD AA
5	Sound Mode	99 23 03 01 FC AA
6	Picture Mode	99 23 04 01 FB AA
7	AV	99 23 08 01 F7 AA
8	YPbPr	99 23 0A 01 F5 AA
9	VGA	99 23 0B 01 F4 AA
10	HDMI1	99 23 0E 01 F1 AA
11	HDMI2	99 23 0F 01 F0 AA
12	HDMI3	99 23 10 01 EF AA
13	DP	99 23 11 02 EE AA
14	OPS	99 23 11 01 EE AA
15	TYPE-C	99 23 11 03 EE AA
16	Menu	99 23 12 01 ED AA
17	Source	99 23 13 01 EC AA
18	Exit	99 23 14 01 EB AA
19	Backlight (On/OFF)	99 23 16 01 E9 AA
20	Volume(+ )	99 23 17 01 E8 AA
21	Volume(-)	99 23 18 01 E7 AA
22	Information	99 23 1C 01 E3 AA
23	Up	99 23 22 01 DD AA
24	Down	99 23 23 01 DC AA
25	Left	99 23 24 01 DB AA
26	Right	99 23 25 01 DA AA
27	Enter	99 23 26 01 D9 AA
28	Media	99 23 27 01 D8 AA
29	Touch (On)	99 23 28 01 D7 AA

30	Touch (Off)	99 23 29 01 D6 AA
31	Physical button (On)	99 23 2A 01 D5 AA
32	Physical button (Off)	99 23 2B 01 D4 AA

## ***NovoTouch BK series BK652i, BK752i, and BK862i.***

### Set Command

- The 5th byte is checksum

No	Description	Code	Remark
1	POWER ON	55 00 8E 00 E3	
2	POWER OFF	55 00 8E 0F F2	
3	SOURCE	55 00 80 00 D5	
4	Up	55 00 00 01 56	
5	Down	55 00 00 02 57	
6	Left	55 00 00 03 58	
7	Right	55 00 00 04 59	
8	OK	55 00 00 00 55	
9	Menu	55 00 14 00 69	
10	Exit	55 00 16 00 6B	
11	Info	55 00 18 00 6D	
12	Mute	55 00 1A 00 6F	
13	Sound Mode	55 00 22 00 77	Standard
		55 00 22 02 79	User defined
		55 00 22 03 7A	Movie
14	Picture mode	55 00 28 00 7D	Standard
		55 00 28 01 7E	Soft
		55 00 28 02 7F	Bright
		55 00 28 03 80	User defined
15	Volume plus +	55 00 0C 00 61	

	Volume plus -	55 00 0E 00 63	
16	Set Volume(0~100)	55 00 0F 00 64	0
		55 00 0F 64 C8	100
17	Return	55 00 0A 00 5F	
18	Switch to HDMI 1	55 00 80 08 DD	
19	Switch to HDMI 2	55 00 80 09 DE	
20	Switch to HDMI 3	55 00 80 11 E6	
21	Switch to OPS	55 00 80 0B E0	
22	Switch to front HDMI	55 00 80 0A DF	
23	Switch to TYPE-C 1	55 00 80 16 EB	
24	Set Contrast(0~100)	55 00 2A 00 7F	0
		55 00 2A 64 E3	100
25	Set Brightness	55 00 2C 00 81	0
		55 00 2C 64 E5	100
26	Set Saturation(0~100)	55 00 2E 00 83	0
		55 00 2E 64 E7	100
27	Set HUE(0~100)	55 00 30 00 85	0
		55 00 30 64 E9	100
28	Set Sharpness	55 00 32 00 87	0
		55 00 32 64 EB	100
29	Set BASS	55 00 3A 00 8F	
30	Set Treble	55 00 3C 00 91	
31	Set Balance	55 00 3E 00 93	
32	Factory Reset	55 00 84 00 D9	
33	Set Backlight(0~100)	55 00 89 00 DE	Under backlight mode is standard
		55 00 89 64 42	
34	Screen shot	55 00 8A 00 DF	
35	Home	55 00 91 00 E6	

## Get Command

- The 5th byte is checksum

No	Description	Code	Remark
1	Source	55 00 81 00 D6	
2	Contrast	55 00 2B 00 80	
3	Sturation	55 00 2F 00 84	
4	HUE	55 00 31 00 86	
5	Sharpness	55 00 33 00 88	
6	BASS	55 00 3B 00 90	
7	Treble	55 00 3D 00 92	
8	Balance	55 00 3F 00 94	
9	Picture mode	55 00 61 00 B6	Standard
		55 00 61 01 B7	Soft
		55 00 61 02 B8	Bright
		55 00 61 03 B9	User defined
10	Volume	55 00 65 00 BA	
11	TV status query	55 00 45 00 9A	01: Power on, 02: Standby
12	Backlight	55 00 8B 00 E0	