



## RS 232 Control codes for Sunbrite SB3220 and SB4610 outdoor LCD TV

Function	ASCII	HEX	Command Received Response from TV to control system	Command Executed Response from TV to control system
Firmware Version Number	[ESC]?	1B 3F	[B3220AHD-X.XX] or [B4610AHD-X.XX]	na
Power Status	[ESC]!	1B 21	[PWRON] [PWROFF]	na
Power Toggle	[ESC]\$	1B 24	[\$]	[PWR]
Power ON	[ESC]A	1B 41	[A]	[PWRON]
Power OFF	[ESC]B	1B 42	[B]	[PWROFF]
Tuner Input	[ESC]C	1B 43	[C]	[TN1]
Composite Video Input 1	[ESC]D	1B 44	[D]	[AV1(CVBS)]
S-Video Input 1	[ESC]E	1B 45	[E]	[AV1(S-VIDEO)]
Composite Video Input 2	[ESC]F	1B 46	[F]	[AV2(CVBS)]
S-Video Input 2	[ESC]G	1B 47	[G]	[AV2(S-VIDEO)]
Component1 Input	[ESC]H	1B 48	[H]	[YpbPr1]
Component2 Input	[ESC]I	1B 49	[I]	[YpbPr2]
HDMI Input 1	[ESC]J	1B 4A	[J]	[HDMI1]
VGA Input	[ESC]K	1B 4B	[K]	[VGA]
HDMI Input 2	[ESC]L	1B 4C	[L]	[HDMI2]
Mute	[ESC]X	1B 58	[X]	[MUTE]
Vol Up	[ESC]Y	1B 59	[Y]	[VOL+]
Vol Down	[ESC]Z	1B 5A	[Z]	[VOL-]
Channel Up	[ESC]V	1B 56	[V]	[CH+]
Channel Down	[ESC]W	1B 57	[W]	[CH-]
1	[ESC]1	1B 31	[1]	na
2	[ESC]2	1B 32	[2]	na
3	[ESC]3	1B 33	[3]	na
4	[ESC]4	1B 34	[4]	na
5	[ESC]5	1B 35	[5]	na
6	[ESC]6	1B 36	[6]	na
7	[ESC]7	1B 37	[7]	na
8	[ESC]8	1B 38	[8]	na
9	[ESC]9	1B 39	[9]	na
0	[ESC]0	1B 30	[0]	na
.	[ESC].	1B 2D	[.]	na
Channel Return(Previous Channel)	[ESC]r	1B 72	[r]	na
Source Toggle	[ESC]b	1B 62	[SRC]	na
Aspect	[ESC]a	1B 61	[ASPECT]	na
Enter	[ESC]e	1B 65	[ENTER]	na
Info	[ESC]i	1B 69	[INFO]	na
CC	[ESC]c	1B 63	[CC]	na
Sleep	[ESC]z	1B 7A	[SLEEP]	na
Picture	[ESC]p	1B 70	[PICT]	na
Sound	[ESC]s	1B 73	[SND]	na
(4610 only) PIP On	[ESC]P	1B 50	[PIP]	na
(4610 only) PIP Source	[ESC]Q	1B 51	[PSC]	na
(4610 only) PIP Swap Video	[ESC]R	1B 52	[PSV]	na
(4610 only) PIP Swap Audio	[ESC]S	1B 53	[PSA]	na
(4610 only) PIP Size	[ESC]T	1B 54	[PSZ]	na



# HERMA

## RS 232 Control codes for Sunbrite SB2310A outdoor LCD TV

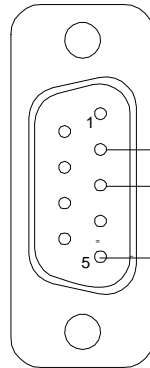
Function	ASCII	HEX	Command Received Response from TV to control system	Command Executed Response from TV to control system
Firmware Version Number	[ESC]?	1B 3F	[B2310AHD-X.XX]	na
Power Status	[ESC]!	1B 21	[PWRON] [PWROFF]	na
Power ON	[ESC]A	1B 41	[A]	[PWRON]
Power OFF	[ESC]B	1B 42	[B]	[PWROFF]
Tuner Input	[ESC]C	1B 43	[C]	[TN1]
Composite Video Input	[ESC]D	1B 44	[D]	[AV1(CVBS)]
S-Video Input	[ESC]E	1B 45	[E]	[AV1(S-VIDEO)]
Component1 Input	[ESC]H	1B 46	[H]	[YpbPr1]
Component2 Input	[ESC]I	1B 47	[I]	[YpbPr2]
HDMI Input	[ESC]J	1B 48	[J]	[HDMI1]
VGA Input	[ESC]K	1B 49	[K]	[VGA]
Mute	[ESC]X	1B 58	[X]	[MUTE]
Vol Up	[ESC]Y	1B 59	[Y]	[VOL+]
Vol Down	[ESC]Z	1B 5A	[Z]	[VOL-]
Channel Up	[ESC]V	1B 56	[V]	[CH+]
Channel Down	[ESC]W	1B 57	[W]	[CH-]
1	[ESC]1	1B 31	[1]	na
2	[ESC]2	1B 32	[2]	na
3	[ESC]3	1B 33	[3]	na
4	[ESC]4	1B 34	[4]	na
5	[ESC]5	1B 35	[5]	na
6	[ESC]6	1B 36	[6]	na
7	[ESC]7	1B 37	[7]	na
8	[ESC]8	1B 38	[8]	na
9	[ESC]9	1B 39	[9]	na
0	[ESC]0	1B 30	[0]	na
-	[ESC]-	1B 2D	[-]	na
Channel Return(Previous Channel)	[ESC]r	1B 72	[r]	na
Source Toggle	[ESC]b	1B 62	[SRC]	na
Aspect	[ESC]a	1B 61	[ASPECT]	na
Enter	[ESC]e	1B 65	[ENTER]	na
Info	[ESC]i	1B 69	[INFO]	na
CC	[ESC]c	1B 63	[CC]	na
Sleep	[ESC]z	1B 7A	[SLEEP]	na
Picture	[ESC]p	1B 70	[PICT]	na
Sound	[ESC]s	1B 73	[SND]	na

# RS 232 Control codes for Sunbrite SB5510HD outdoor LCD TV

Com Spec: 9600,8,1,n

Function	ASCII	HEX	Command Received Response from TV to control system	Command Executed Response from TV to control system
Software Version	[ESC]	1B 2E	[SB5510-1.xx]	na
Firmware Version Number	[ESC]?	1B 3F	[SB4610-1x]	na
Power Status	[ESC]!	1B 21	[PWRON] [PWROFF]	na
Power Toggle	[ESC]\$	1B 24	[\$]	[PWR]
Power ON	[ESC]A	1B 41	[A]	[PWRON]
Power OFF	[ESC]B	1B 42	[B]	[PWROFF]
Tuner Input	[ESC]C	1B 43	[C]	[TN1]
Input 1: Composite	[ESC]D	1B 44	[D]	[AV1(CVBS)]
Input 2: S-Video	[ESC]E	1B 45	[E]	[AV1(S-VIDEO)]
Input 3: HDMI3	[ESC]F	1B 46	[F]	[HDMI3]
Input 4: HDMI4	[ESC]G	1B 47	[G]	[HDMI4]
Input 5: Component1	[ESC]H	1B 48	[H]	[YpbPr1]
Input 6: Component2	[ESC]I	1B 49	[I]	[YpbPr2]
Input 7: HDMI1	[ESC]J	1B 4A	[J]	[HDMI1]
Input 8:VGA	[ESC]K	1B 4B	[K]	[VGA]
Input 9: HDMI2	[ESC]L	1B 4C	[L]	[HDMI2]
Mute	[ESC]X	1B 58	[X]	[MUTE]
Vol Up	[ESC]Y	1B 59	[Y]	[VOL+]
Vol Down	[ESC]Z	1B 5A	[Z]	[VOL-]
Channel Up	[ESC]V	1B 56	[V]	[CH+]
Channel Down	[ESC]W	1B 57	[W]	[CH-]
1	[ESC]1	1B 31	[1]	na
2	[ESC]2	1B 32	[2]	na
3	[ESC]3	1B 33	[3]	na
4	[ESC]4	1B 34	[4]	na
5	[ESC]5	1B 35	[5]	na
6	[ESC]6	1B 36	[6]	na
7	[ESC]7	1B 37	[7]	na
8	[ESC]8	1B 38	[8]	na
9	[ESC]9	1B 39	[9]	na
0	[ESC]0	1B 30	[0]	na
-	[ESC]-	1B 2D	[-]	na
Channel Return(Previous Channel)	[ESC]r	1B 72	[r]	na
Source Toggle	[ESC]b	1B 62	[SRC]	na
Aspect	[ESC]a	1B 61	[ASPECT]	na
Enter	[ESC]e	1B 65	[ENTER]	na
Info	[ESC]i	1B 69	[INFO]	na
CC	[ESC]c	1B 63	[CC]	na
Sleep	[ESC]z	1B 7A	[SLEEP]	na
Picture	[ESC]p	1B 70	[PICT]	na
Sound	[ESC]s	1B 73	[SND]	na
PIP On	[ESC]P	1B 50	[PIP]	na
PIP Source	[ESC]Q	1B 51	[PSC]	na
PIP Swap Video	[ESC]R	1B 52	[PSV]	na
PIP Swap Audio	[ESC]S	1B 53	[PSA]	na
PIP Size	[ESC]T	1B 54	[PSZ]	na

DB9F, Typical  
PC Serial / Control System  
RS232 port.



1/8" Stereo Plug



Com Specs: 9600 baud 8 data, 1 stop, no parity

Ground  
Rx Data  
From control  
system  
Tx Data  
to control  
system

		<b>SunbriteTV RS232 Control Cable</b>			
July 17 2007 Preliminary		SIZE	FSCM NO	DWG NO	REV A1
		SCALE		SHEET	1 OF 1

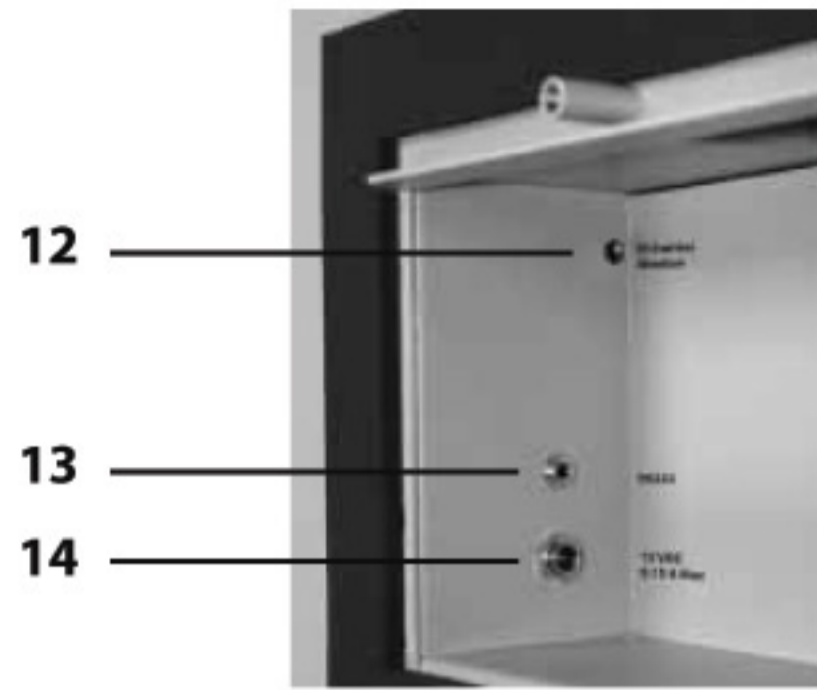


Figure 15

**12. IR Emitter Window** - The Internal Infrared (IR) Control Window allows the TV to be controlled from a remote system using IR commands.

**13. RS232** - The RS232 connection allows the TV to be controlled from a remote system using RS232 commands. (See Appendix A of this manual for a list of RS232 control commands and Appendix B for a Control Cable Pinout Diagram.)

**14. 12 VDC** - This port is for the SunBriteTV FM Radio (Item SB-FM 461) connector only.

### Emitter Window:

Figure 15 shows an Emitter\* installed. One end of the Emitter is to be mounted in front of the IR Emitter Window. The other end is to be connected to an appropriate control block\*.

\* Neither the emitter or control block are supplied by SunBriteTV. See instructions that come with your IR Emitter and control block to determine how to make the connection.

**Important note:** SunBriteTV recommends using a high-output IR Emitter, such as Xantech 282M.