SunBriteTV® True Outdoor Television Operator's Manual



Model SB-3211HD

Dear SunBriteTV Customer:

Congratulations on the ownership of your SunBriteTV all-weather outdoor LCD TV, and welcome to the family of satisfied SunBrite customers. You are in great company, with thousands of homeowners and esteemed commercial facilities such as Yankee Stadium, Fenway Park, Disney World, and Sea World who have trusted us to deliver superior performance, lasting durability and the enjoyment of superb television viewing in the great outdoors.

Our products are designed to withstand the rigors of the outdoor environment and provide our customers with many years of optimum viewing, while delivering excellent picture and sound as well as the ease of use and convenience of conventional indoor TVs.

To ensure safety and long product life, please read the Important Safety Instructions and complete manual carefully before using the TV. If you have any questions about the installation procedures, please contact our qualified SunBriteTV Customer Support Team at 800.331.4626.

IMPORTANT SAFETY INSTRUCTIONS

1) Read these instructions, and keep them for future use.

2) Heed all warnings and follow all instructions.

3) Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.

4) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.

5) Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.

6) Protect the power cord from being walked on or pinched, particularly at plugs, convenience receptacles, and the point where the cord exits from the apparatus.

7) Only use attachments/accessories specified by the manufacturer.

8) Use only the cart, stand, tripod, bracket or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.



9) Unplug this apparatus during lightning storms.

10) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, does not operate normally, or has been dropped.

WARNING: TV must be plugged into a GFCI receptacle. TV and GFCI RECEPTACLE MUST BE INSTALLED NO LESS THAN 5 FEET FROM ANY BODY OF WATER (SUCH AS POOL OR SPA). Check local building codes for proper installation guidelines.

WARNING: This unit is equipped with a 3-pin grounded plug. The plug will only fit into a grounded power outlet. This is a safety feature. If you are unable to insert the plug into the outlet, contact your electrician. Do not alter this plug, as this will defeat the safety feature.

WARNING: The main plug is used as the disconnect device and shall remain readily operable.

WARNING: This product shall be connected to a mains socket outlet with a protective earthing connection.

CAUTION: TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.

WARNING: FCC Regulations state that any unauthorized changes or modifications to this equipment not expressly approved by the manufacturer could void the user's authority to operate this equipment.

NOTE TO CATV SYSTEM INSTALLER: This reminder is provided to call the CATV system installer's attention to Article 820-40 of the National Electrical Code that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

WARNING: To reduce the risk of fire or electric shock, do not expose the inside of this apparatus to rain or moisture.

This product utilizes tin-lead solder.. Disposal of these materials may be regulated due to environmental considerations. For disposal or recycling information, please contact your local authorities or the Electronic Industries Alliance: www.eia.org.

Disclaimer: While SunBriteTV LLC intends to make this manual accurate and complete, we do not make claims that the information contained within covers all details, conditions or variations, nor does it provide for every possible contingency in connection with the installation or use of this product. The information contained in this manual may change without notice.

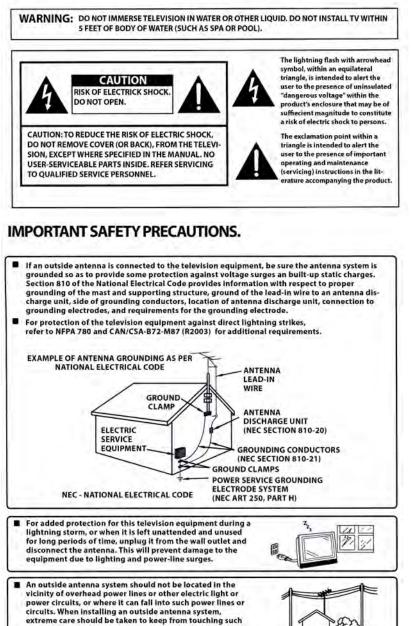
Cleaning Instructions: See "Care of SunBriteTV" on page 36.

Attachments: Do not use attachments not specifically recommended by the manufacturer. Use of improper attachments can result in accidents.

Power Source: SunBriteTV must operate on a power source indicated on the specification label. If you are not sure of the type of power supply used in your home, consult your dealer or local power company. When using the TV outdoors, you must use a GFI-protected AC outlet with "in-use" waterproof cover.

Installation: Do not place the product on an unstable cart, stand, tripod, table, or anywhere the unit is not permanently installed. Placing the product on an unstable place can cause the product to fall, resulting in potential serious personal injuries, as well as damage to the product.

Precautions when Transporting the TV: Carrying the television requires at least two people.



FCC Statement

This equipment complies with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

1. Reorient or relocate the receiving antenna.

2. Increase the separation between the equipment and receiver.

3. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

4. Consult the dealer or an experienced radio/TV technician for help.

Modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment under FCC rules. This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference.

2. This device must accept any interference received, including interference that may cause undesired operation.



power lines or circuits as contact with them might be fatal.

Ventilation: Adequate ventilation must be maintained to ensure reliable and continued operation and to protect the television from overheating. There must be at least 1.5" of space on all sides.

Power cord protection: The power cord must be routed properly to prevent people from stepping on it, or objects from resting on it. Check the cords at the plugs and product.

Power source: This product must operate on a power source specified on the specification label. If you are unsure of the type of power supply used in your home, consult your dealer or local power company.

Do not let metal pieces or objects of any kind fall into the television from ventilation holes. High voltage flows in the product, and inserting an object can cause electric shock and/or short internal parts.

Do not mount SunBriteTV near a motor or transformer where strong magnetism is generated. Images on the television will become distorted and the color irregular.

Do not mount SunBriteTV near heat sources such as radiators, heaters, stoves and other heat-generating products (including amplifiers).

Do not submerge SunBriteTV in water: The SunBriteTV will resist water exposure from normal rain, sprinklers, garden hoses, etc.; however, it is not designed to be submerged in water.

Do not pressure-wash SunBriteTV: SunBriteTV will resist water exposure from normal rain, sprinklers, garden hoses, etc.; However, it is not designed to withstand pressure washers, high-pressure water jets, or hurricane-type weather.

Do not service SunBriteTV yourself: Removal of the television screen cover may expose you to high voltage or other dangerous risks. Refer all servicing to a qualified service professional. Warranty will not be honored if you service the unit yourself.

Repair: If any of the following conditions occurs, unplug the power cord, and call a qualified service professional to perform repairs:

When power cord or plug is damaged.

When objects have fallen into the product.

If unit was submerged in water or pressure-washed.

When product does not operate properly as described in the operating instructions. Do not touch the controls other than as described in the operating instructions. Improper adjustments of controls not described in the instructions can cause damage, which can require extensive repair work by a qualified technician.

When the product has been dropped or damaged.

When the product displays an abnormal condition. Any noticeable abnormality in the product indicates that the product needs servicing.

Replacement parts: In case the product needs replacement parts, make sure that the service person uses replacement parts provided by SunBriteTV. Use of unauthorized parts can result in fire, electric shock and/or other danger.

Safety checks: Upon completion of service or repair work, ask the service technician to perform safety checks to ensure that the product is in proper operating condition.

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Unpacking

After unpacking the SunBriteTV television, please make sure that the following items are included in the carton and that they are in good condition. If items are damaged or missing, contact your dealer immediately.

SunBriteTV LCD Television Remote Control with Batteries Speaker Module Operator's Manual



Model SB-3211



Operator's Manual

Speaker Module



Remote Control

Choose a Location for the TV

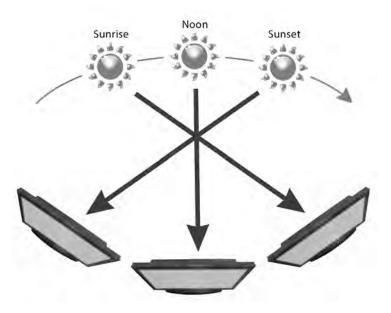
Important: The TV must be installed at least 5 feet from pool, spa, or other body of water.

The TV should be installed so the screen is not facing direct sunlight, or can be easily turned away from direct sunlight.

Ideal placement is in an area where the TV is shaded by trees, landscape and/or structures, or under a patio cover or gazebo.

Remember that the position of the sun changes during the day, as seen in the drawing at right., This means that the quality of the picture will change during the day. If you intend to install the TV in areas where direct sunlight will reach it, it's best to postion the TV for optimum performance during the time of day when you do most of your TV watching.

If the sun shines directly on the screen for long periods of time, dark areas may develop on the screen. This is a normal reaction for the LCD panel, and will not cause damage to the screen. Either turn the screen away from the sun, or apply shade to the TV, and the dark areas will quickly disappear.



WARNING: Do not connect the power source before making connections.

Internal Connect Source through the cable access door.

The Internal Connect Source allows you to easily connect to the Audio, Video, S-Video, SVGA, HDMI, Audio Out, and RF connectors. The Internal Connect Source is inside the Cable Cover located on the back of the unit (Figure 1).

1. Unscrew the two Thumb Screws (Figure 1), and pull the cover towards you.

2. Route the cables to the proper inputs, and place the cable cords over the Rubber Sealing Gasket on the bottom of the cable access opening(Figure 2).

3. Be sure the cables are routed past the indentation on the bottom of the door. Cable cannot be routed through the top and side of the rubber sealing gasket. (Figure 3).

3. Close the cover.

4. Press firmly on the cover, and screw the Thumb Screws tightly (Figure4).

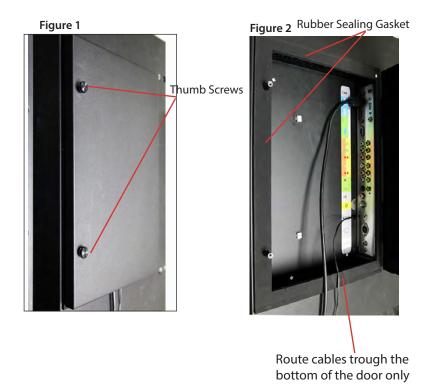


Figure 3



TV Installation - Connecting the Power Cord

Do not connect power cord until all cable connections have been made.

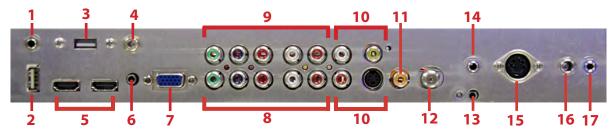
Connect the power cord to a GFCI protected AC outlet with an "in-use" waterproof cover.

WARNING:

TV AND GFCI RECEPTACLE MUST BE INSTALLED AT LEAST 5 FEET AWAY FROM STANDING WATER , SUCH AS (BUT NOT LIMITED TO) A POOL OR SPA. BE SURE TO CHECK LOCAL ELECTRICAL CODES AND COMPLY WITH THEIR LOCAL STANDARDS.

TV Installation – Rear Panel Connections

Connections



- 1. SERVICE PORT This port is for factory service only, do not use.
- 2. SERVICE PORT This port is for factory service only, do not use.
- 3. USB power port 5vdc @ 3.5a Auxillary power supply
- 4. 1.3mm Power Jack 5vdc @ 3.5a Auxillary power supply
- 5. HDMI 1 & 2 Connects to devices that use HDMI cables such as Blu-ray or HD DVD player or HD cable / satellite set-top box. This connection port receives pure digital audio and high definition signal through one single cable. This port also can accept a HDCP video device for video or PC for monitor display usage. Use the SOURCE button to select HDMI1 on your MAIN SOURCE to view this connection. Please note: when using HDMI, your sound signal must be PCM for the TV to decode digital audio. When using this source for PC display, you must connect the audio cable to VGA Stereo Input for audio.
- 6. VGA STEREO INPUT This connection port is for people who want to provide audio to the TV when using a PC or a DVI video device. Use a 3.5mm mini-jack audio cable (headphone jack) to provide audio for a HDCP enabled DVI video device or PCs with VGA or DVI connection.
- 7. VGA This connection port connects to a PC for video using VGA cable. Be sure to connect your audio cable to the VGA Stereo input if you require sound out of the VGA video source. Use the SOURCE button to select PC on your MAIN SOURCE to view this connection.
- 8. COMPONENT 1 (Lower) This connection ports are for DVD players or satellite/cable set-top boxes that use component cables. From left to right, connect green, blue and red for video, and then connect white for left channel audio, red for right channel audio. Use the Source Button to select Component to view this connection.
- 9. COMPONENT 2 (Upper) his connection ports are for DVD players or satellite/cable set-top boxes that use component cables. From left to right, connect green, blue and red for video, and then connect white for left channel audio, red for right channel audio. Use the Source Button to select Component2 to review this connection.
- 10. AV 1 (CVBS or S-Video) Connects to devices that use composite or s-video cables such as VCR or camcorder or video game consoles. Connect the video portion with either the yellow connector or the S-Video connector. Do NOT connect both video connectors. Use the SOURCE button to select AV on your MAIN SOURCE if you are using the yellow plug for video, use the SOURCE button to select S-Video on your MAIN SOURCE if you are using the S-Video connector to view this connection.
- 11. DIGITAL AUDIO OUT This connection port is used for sending out audio signals to other audio devices such as stereo/surround sound receivers. The orange (SPDIF OUT) connector sends out either bit-stream or PCM digital sound signal to a home theater receiver with digital input.
- 12. ATSC/NTSC/QAM Coax input This connection is for digital or analog cable without the cable box or over-the-airwave antennas. The tuner is a hybrid tuner that tunes to both analog and digital channels. This connection uses coaxial RF cable. For over- the airwave digital stations please check http://www.antennaweb.org.
- 13. IR WINDOW Rear IR receiver, allows IR emitter to be installed inside the cable compartment.
- 14. ANALOG AUDIO OUT (Variable) Used to connect headphones, stereo receivers and amplified speakers via a 3.5mm headphone jack.
- 15. 5 pin din jack SunbriteTV speaker bar connection.
- 16. 2.5mm power jack 12v @ 3amps Auxillary power supply
- 17. RS232 For remote control using RS232 commands.

Port Quality & Name	Port Picture	Cable Used & Resolution	Devices that use this Port
Best HDMI (Digital HD)		HDMI 1080p, 1080i 720p,720i, 480p,480i	Blu-ray DVD Player HD Cable or Satellite Set top box, PC
Best/Fair ATSC/NTSC (Digital HD)		Coaxial RF 1080i 720p,720i, 480p,480i	Antenna or Digital Cable without the Cable set top box
Best VGA (HD Capable)	000	VGA 1920 x 1080 or lower	PC or MAC with VGA Connection.
Better Component 1&2 (HD Capable)	0.0.0 0.0	Component 1080i, 720p, 720i,480p,480i	DVD Player, Video Game Console, High Definition Cable or Satellite set top box
Good Composite (Non-HD)	0	S-Video 480i only	Non High Definition Cable or Satellite Set-top box, S-video VCR.
Fair Composite (Non-HD)	0	Composite 480i only	Non High Definition Cable or Satellite Set-top box, VCR, Older Game Console, Camcorders.

Connection Descriptions:

Cable Descriptions:



Switching Sources for Ports:

Your SunBrite TV offers several options when connecting your devices to the TV. The chart below will help you understand which source you switch to for each of the ports.

Port Picture	Cable Used	Source Name to Select
	HDMI or HDMI-DVI	HDMI1 or HDMI2
	COAXIAL RF (CABLE OR ANTENNA)	тν
0	VGA (PC-MAC)	PC
0.0000	COMPONENT	COMPONENT1 or COMPONENT2
	S-VIDEO	S-VIDEO
0	COMPOSITE	AV

CONNECTING TO AN ANTENNA



Connecting to Digital Cable without Cable Box or Antenna



1. Make sure the power to the TV is turned off.

2. Connect the Coaxial RF cable from your antenna or digital cable to the ATSC/NTSC port off the back of the TV.

3. Turn on the TV.

4. Select TV (Air) for antenna or TV (Cable) for digital cable from either your remote control's source button or source button on the right side of the TV.

5. Use the On-Screen Display to scan for channels.

Please Note :

- 1. Not all broadcasts are in High Definition (HD). Please refer to your local broadcasting stations for more information.
- 2. The TV's tuner is designed for HDTV therefore requires a stronger signal than normal TVs. If you cannot achieve that signal level with your antenna or cable, the TV might lose picture or sound.

Connecting to Cable or Antenna

1. Make sure the power of the TV is turned off.

2. Connect the Coaxial RF cable from your antenna or cable to the ATSC/NTSC port off the back of the TV.

3. Turn on the TV.

4. Select TV (Air) for antenna or TV (Cable) for cable from either your remote control's source button or source button on the right side of the TV.

5. Use the On Screen Display to scan for channels.



CONNECTING TO AN ANTENNA--(Continued)

Connecting to Cable or Antenna through VCR



1

- 1. Make sure the power of the TV is turned off.
- 2. Make sure there is an antenna or cable connection to the VCR already.

3. Use a Coaxial RF cable and connect from your VCR's Antenna Out or Output to TV to the ATSC/ NTSC port of your TV.

4. Turn on the TV.

5. Select TV (Air) for antenna or TV (Cable) for digital cable from either your remote control's source button or source button on the TV.

6. Use the On-Screen Display to scan for channels.

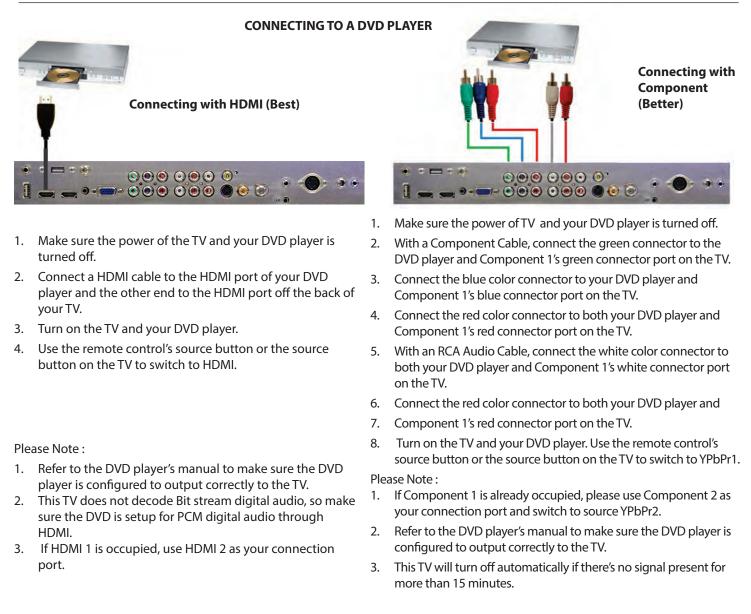
Please Note :

1. Some VCRs must be turned On before its output will have a signal to the TV. Please consult your VCR manual for further reference.

2. Not all broadcasts are in High Definition (HD). Please refer to your local broadcasting stations for more information.

3. This model's tuner is designed for HDTV therefore it requires a stronger signal than normal TVs. If you cannot achieve that signal level with your antenna or cable, the TV might lose picture or sound.

4. This TV will turn off automatically if there's no signal present for more than 15 minutes.



CONNECTING TO A DVD PLAYER (Continued)

Connecting with S-Video (fair)



- 1. Make sure the power of the TV and your DVD player is turned off.
- 2. Obtain an S-Video Cable. Connect the S-Video connector to both your DVD player and Composite's S-Video connector port off the back of your TV.
- 3. Obtain a RCA Audio Cable. Connect the white color connector to both your DVD player and Composite's white connector port off the back of your TV.
- 4. Connect the red color connector to both your DVD player and Composite's red connector port off the back of your TV.
- 5. Turn on the TV and your DVD player.
- 6. Use the remote control's source button or the source button on the right side of the TV to switch to AV1 (S-Video).



- 1. Make sure the power of the TV and your DVD player is turned off.
- 2. Obtain a Yellow Video Cable. Connect the Yellow Video connector to both your DVD player and Composite's Yellow Video connector port off the back of your TV.
- 3. Obtain a RCA Audio Cable. Connect the white color connector to both your DVD player and Composite's white connector port off the back of your TV.
- 4. Connect the red color connector to both your DVD player and Composite's red connector port off the back of your TV.
- 5. Turn on the TV and your DVD player.
- 6. Use the remote control's source button or the source button on the right side of the TV to switch to AV1 (CVBS).

Please note:

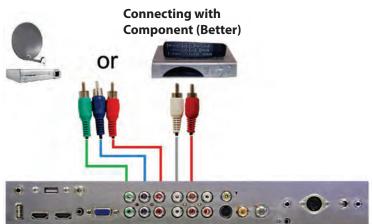
- 1. If AV 1 is already occupied, use AV2, as your connection port, and switch source to AV 2 (S-Video)
- 2. Reference the DVD player's manual to make sure the DVD player is configured to output correctly to the TV.
- 3. This TV will turn off automatically if there's no signal present for more than 15 minutes.



- 1. Make sure the power of the TV and your set-top box is turned off.
- 2. Connect a HDMI cable to the HDMI output of your set-top box and the other end to the HDMI port off the back of your TV.
- 3. Turn on the TV and your set-top box.
- 4. Use the remote control's source button or the source button on the right side of the TV to switch to HDMI 1.

Please Note :

- 1. Refer to the set-top box's manual, to make sure the settop box is configured to output correctly to the TV.
- 2. If HDMI 1 is already occupied, use HDMI 1 as your connection port and switch source to HDMI 2.
- 3. This model supports SONY's universal remote code. If SunBriteTV is not listed, please look up SONY's codes in your universal remote's hand book.
- 4. This TV will turn off automatically if there's no signal present for more than 15 minutes.



- 1. Make sure the power of TV and your set-top box is turned off.
- 2. Obtain a Component Cable. Connect the green color connector to both your set-top box and Component 1's green connector port off the back of your TV.
- 3. Connect the blue color connector to both your set-top box and Component 1's blue connector port off the back of your TV.
- 4. Connect the red color connector to both your set-top box and Component 1's red connector port off the back of your TV.
- 5. Obtain a RCA Audio Cable. Connect the white color connector to both your set-top box and Component 1's white connector port off the back of your TV to the right side of your green, blue, red component connection.
- 6. Connect the red color connector to both your set-top box and Component 1's red connector port off the back of your TV to the right side of your green, blue, red component connection.
- 7. Turn on the TV and your set-top box.
- 8. Use the remote control's source button or the source button on the TV to switch to YPbPr1.

Please Note :

- 1. If Component 1 is already occupied, please use Component 2 is your connection port and switch to source YPbPr2.
- 2. Please refer to the set-top box's manual to make sure the set-top box is configured to output correctly to the TV.
- This model supports SONY's universal remote code. If SunBriteTV is not listed, please look up SONY's codes in your universal remote's hand book.
- 4. This TV will turn off automatically if there's no signal present for more than 15 minutes.

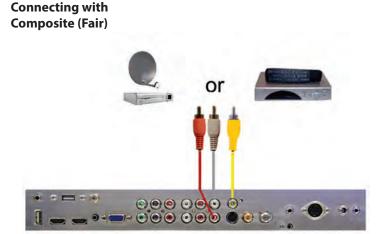
CONNECTING TO A SATELLITE OR CABLE SET-TOP BOX (Continued)

Connecting with S-Video (Fair)

- 1. Make sure the power of the TV and your DVD player is turned off.
- 2. Obtain an S-Video Cable. Connect the S-Video connector to both your DVD player and Composite's S-Video connector port off the back of your TV.
- 3. Obtain a RCA Audio Cable. Connect the white color connector to both your DVD player and Composite's white connector port off the back of your TV.
- 4. Connect the red color connector to both your DVD player and Composite's red connector port off the back of your TV.
- 5. Turn on the TV and your DVD player.
- 6. Use the remote control's source button or the source button on the right side of the TV to switch to AV1 (S-Video).

Please Note :

- 1. If AV 1 is already occupied, use AV 2 as your connection port and switch source to AV 2 (S-Video).
- 2. Refer to the set-top box's manual to make sure the set-top box is configured to output correctly to the TV.
- 3. This model supports SONY's universal remote code. If SunBriteTV is not listed, please look up SONY's codes in your universal remote's hand book.
- 4. This TV will turn off automatically if there's no signal present for more than 15 minutes.



- 1. Make sure the power of the TV and your DVD player is turned off.
- 2. Obtain a Yellow Video Cable. Connect the Yellow Video connector to both your DVD player and Composite's Yellow Video connector port off the back of your TV.
- Connect the white color connector to both your DVD player and Composite's white connector port off the back of your TV.
- 4. Connect the red color connector to both your DVD player and Composite's red connector port off the back of your TV.
- 5. Turn on the TV and your DVD player.
- 6. Use the remote control's source button or the source button on the right side of the TV to switch to AV1 (CVBS).

Please Note :

- 1. If AV 1 is already occupied, use AV 2 as your connection port and switch source to AV 2 (S-Video).
- 2. Refer to the set-top box's manual to make sure the set-top box is configured to output correctly to the TV.
- 3. This model supports SONY's universal remote code. If SunBriteTV is not listed, please look up SONY's codes in your universal remote's hand book.
- 4. This TV will turn off automatically if there's no signal present for more than 15 minutes.

CONNECTING TO AN EXTERNAL AMPLIFIER OR AMPLIFIED SPEAKERS

Connecting with Coaxial SPDIF Digital (Best)



- 1. Make sure the power of the TV and your receiver is turned off.
- 2. Obtain a Coaxial SPDIF cable, connect it to your receiver's coaxial SPDIF digital input and the Coaxial SPDIF connection on the LINE OUT port off the back of the TV.
- 3. Turn on the TV and your receiver.

Please Note :

- If you want pure digital stream for your receiver to decode, you must also configure the TV's OSD Sound->Digital Audio Out function. Make sure the option is on Bit Stream.
- 2. If your receiver is making static noises when receiving Bit Stream, you must use the PCM option instead.
- 3. Refer to the receiver's manual to make sure the receiver is configured to receive signals correctly from the TV



- 1. Make sure the power of the TV and your receiver is turned off.
- 2. Obtain a 3.5mm stereo/audio cable (if your amplifier audio connection requires RCA audio out jacks you will need to obtain an 1/8" Stereo Mini Plug to RCA adapter cable). Connect it to your receiver's audio input connection and the 3.5mm stereo/audio connection on the Analog Audio port on the back of the TV.
- 3. Turn on the TV and your receiver.

Please Note :

- If you want pure digital stream for your receiver to decode, you must also configure the TV's OSD Sound->Digital Audio Out function. Make sure the option is on Bit Stream.
- 2. If your receiver is making static noises when receiving Bit
- 3. Stream, you must use the PCM option instead.
- 4. Refer to the receiver's manual to make sure the receiver is configured to receive signals correctly from the TV

CONNECTING TO A PC Connecting with DVI Digital (Best)



- 1. Make sure the power of the TV and your receiver is turned off.
- 2. Obtain a HDMI to DVI conversion cable; connect the DVI side of the conversion cable to the DVI output of your PC, and the HDMI side of the conversion cable to the HDMI port off the back of TV.
- 3. Obtain a 3.5 mm Mini-jack, connect to the audio out of your PC and the other end to the VGA Stereo Input Port.
- 4. Turn on the power to the TV and the PC.
- 5. From the remote control's source button, or the Source button from the TVs panel, switch to HDMI.

Please Note :

- 1. For the best picture, set your PC resolution to 1920 x 1080 at 60 Hz. Refer to the PC or graphic card manual for further instructions on how to set your resolution and refresh rate.
- 2. Refer to your PC manual for video output requirements of the video card.
- 3. The TV will turn off automatically if there's no signal present for more than 15 minutes.
- 4. If HDMI 1 is already occupied, use HDMI 2 as your connection port, and switch source to HDMI 2.

Continued on next page

CONNECTING TO A PC (Continued)

Connecting with VGA Analog (Good)



- 1. Make sure the power of the TV and your PC is turned off.
- 2. Obtain a 15-pin D-Sub VGA cable, connect to the VGA output of your PC and the other end to the VGA port off the back of your TV.
- 3. Obtain a 3.5 mm Mini-jack, connect to the audio out of your PC and the other end to the VGA Stereo Input port.
- 4. Turn on the power of the TV and your PC.
- 5. Use the remote control's source button or the source button the TV to switch to VGA.

Please Note :

- 1. For the best results, please set your PC resolution to
- 2. 1920 x 1080at 60 Hz. Refer to the PC or graphic card's manual for further instructions on how to set your resolution and refresh rate.
- 3. Refer to your PC manual for video output requirements of the video card.
- 4. The VGA port of the TV features a power saving mode which will automatically turn off the TV if there is no signal provided for more than 15 minutes.

Connecting the Power Cord —

WARNING:

TV AND GFCI RECEPTACLE MUST BE INSTALLED AT LEAST 5 FEET AWAY FROM STANDING WATER, SUCH AS (BUT NOT LIMITED TO) A POOL OR SPA.

Connect the power cord after you have made connections to your video equipment.



Connect the power cord to a GFCI-protected AC outlet with "in-use" waterproof cover.

Warning: TV must be installed at least 5 feet away from standing water, such as (but not limited to) a pool or spa.

Side Panel Controls

POWE	•	Power	Turn on the TV by pressing the button once. Press the button again to turn off the TV.
INPUT		Input	This button switches between the different sources of the TV. When the On-Screen Display (OSD) is active, this button acts as the enter button and confirms the menu selection.
О СН+	C	Menu	This button activates the OSD. If a sub-menu is active, pressing this button will return selection to the previous menu level.
СН-		CH+/CH-	These buttons change the TV channel up or down. If the OSD is active, these buttons function as up or down controls for the menu.
VOL+		Vol+ /Vol-	These buttons increase or decrease the volume. If a sub-menu is active, pressing these buttons will move the selection left or right. If the OSD is active, Vol+/Vol- is used to select the highlighted options.

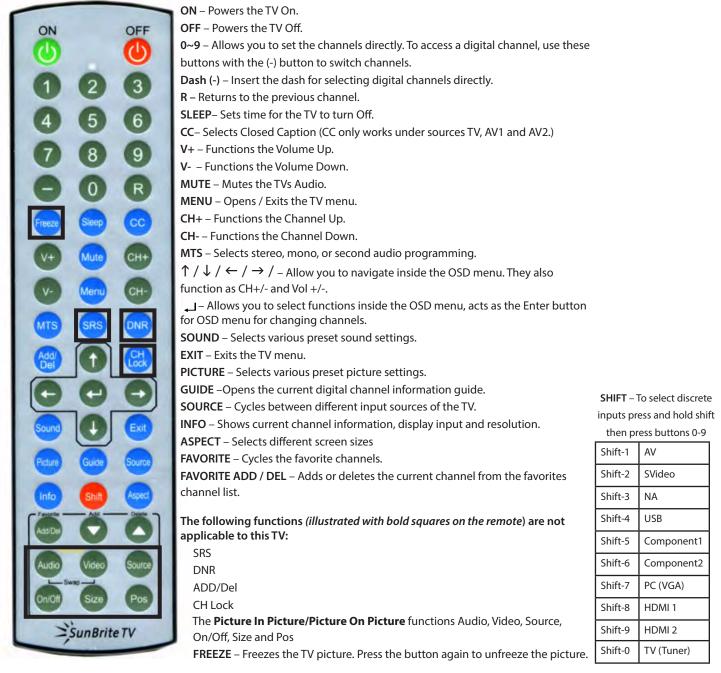
Front Panel



IR Sensor LED power indicator Ambient light sensor

Remote Control Guide

When programming a DirectTV, local cable universal remote control or Control system, you may find that SunBriteTV may not be on the list of TV manufacturers. If that is the case, your SunBriteTV supports SONY's TV universal remote code.



About the Water-Resistant Remote Control

The SunBriteTV Water-Resistant Remote Controller is engineered to give you many years of service.

"Water-resistant" means that the remote control can be in water for short periods of time without damaging the internal workings of the unit. It can be left in the rain, and even dropped in water, as long as it is retrieved quickly. *The remote control should not be left floating in water.*

The functionality of the remote control is under warranty for one year. If the remote control malfunctions within the one-year warranty period, replace the batteries with new long-life alkaline batteries.

If the problem is not solved with new batteries, contact the SunBriteTV Customer Care Center. SunBriteTV will repair or replace the remote control at SunBriteTV's option.

If you have a warranty claim, contact the SunBriteTV Customer Care Center for further instructions. 800.331.4626 www.sunbritetv.com

Via the Remote Control

Adjusting the On Screen Display (OSD) from the Remote Control



- This button is the UP direction in the OSD.
- U This button functions as the DOWN direction in the OSD.
- Characteristics and the set of the set of
- This button functions as the right direction in the OSD
- This button changes the channel in conjunction with the number pad and also functions as enter for selectioning options in the OSD.

This button opens the OSD and also exits the OSD by going to the previous level of the OSD.



This button exits the OSD entirely.

Via the TV Side Panel Buttons

Adjusting the On Screen Display from the TV Side Panel Buttons



Menu - This button opens the OSD

CH + \blacktriangle - This button changes the channel to a

higher number and also functions the up direction of OSD buttons to move the cursor to the item to be selected.

CH - ▼- This button changes the channel to a lower number and also functions as down direction in the OSD

Vol(+) ► - This button increases the volume and functions as left direction in the OSD. If the OSD is active, use Vol+ and Vol- to select a choice.

Vol(-) ◀ - This button decreases the volume and functions as right direction in the OSD. If the OSD is active, use Vol+/Vol- to select a choice.

Your TV has been factory-set to plug-in and enjoy your programming. In the event you turn on the TV and get the message, "Please run Channel Auto Scan," press your remote's Menu button, press the Channel function and press Auto Scan. Note: To run the Channel function, you must be in the TV Source. To access the TV source, click Input on the TV's side panel or Source button on the Remote Control. Press TV from the Input Select option.



Channel Menu

This menu manages Channel functions including: Air/Cable Channel Label Auto Scan DTV Signal strength Favorite channel Show/Hide Channel Number



Picture Menu

This menu manages Picture functions including:

Picture Mode Contrast Brightness Sharpness Tint Color Color Temperature Zoom Mode 3D Noise Reduction Backlight Level Dynamic Light Control (page 2)



Audio Menu

This menu manages Audio functions including: Equalizer mode Equalizer frequencies MTS Stereo mode Audio Language Digital Output type Surround Sound



Time Menu

This menu manages Time functions including:

Sleep Timer Time Zone DST on/off Time Format 12/24 hr. Auto Sync Clock setting Wake-Up time setting



Setup Menu

This menu manages Setup functions including:

- Menu Language Transparency (menu) Closed Caption Restore Default Setup Wizard Software Update BlueScreen on/off
- HDMI Mode Earphones on/off Speaker on/off Ambient Light Sensor Ambient Sensor Value Auto Backlight Floor Backlight Sensor Floor



Lock Menu

This menu manages Lock functions including: System Lock Hotel Mode Input Block



- 1. Press the $\mathbf{\nabla} \mathbf{A}$ buttons on the remote or CH+/CH- on the TV) to move the cursor to the item to be selected.
- 2. Press the \blacktriangleleft buttons on the remote or VOL+/VOL- on the TV to make the desired adjustments.
- 3. When your adjustments are complete, press MENU or EXIT on the remote or MENU on the TV to exit the main menu.



	Favorite	
2.1	KCBS-HD	
2.2	KCBS-SD	
4.1	NBC4-LA	•
4.2	COZY-TV	
5.1	KTLA-DT	
5.2	Antenna	
5.3	This TV	•
12.1	ктви	
12.2	ктви	
12.3	ктви	-
Menu	\$ Move	ок

The Channel Menu is available only when TV is selected as the source. To select TV as the source, push the SOURCE button on the remote repeatedly until TV comes up as the source in the onscreen display. Or push the INPUT button on the side of the TV, then push the CH+ or CH- button on the side of the TV repeatedly until TV comes up as the source in the onscreen display.

Air/Cable

Press the \checkmark buttons to highlight the Air/Cable adjustment. Press the \checkmark buttons to select Air (antenna) or Cable.

Auto Scan

Press the ▼▲ buttons to highlight the Air/Cable adjustment. Press the ▶ button to begin the Auto Scan process. A screen will appear with the message "Are You Sure You Want to Auto Scan?" Press the ◀ button to begin Auto Scan, or ▶ to go back to the Menu. Auto Scan will automatically build a list of the stations your TV can receive through the antenna or cable. The scan process will typically take 3 to 5 minutes.

Favorite

Press the \checkmark buttons to highlight the Air/Cable adjustment. Press the \triangleright button to enter the favorite channel submenu seen at left. This will allow you to select specific channels as your favorites, which you can access by pressing the Favorites button on the remote control.

To add a channel to your favorites list, press the ▼▲ buttons to highlight the channel. Press the ← button to enter the channel as a favorite. You will see a red heart appear next to the channel in the list.

To delete a channel from your favorites list, press the \checkmark buttons to highlight the channel. Press the \dashv button to delete the channel from your favorites. The red heart next to the channel will disappear.

	Show/Hi	de
2.1	KCBS-HD	
2.2	KCBS-SD	
4.1	NBC4-LA	
4.2	COZY-TV	0
5.1	KTLA-DT	
5.2	Antenna	
5.3	This TV	0
12.1	ктви	and the second
\$ 12.2	ктви	0
12.3	ктви	111
Menu	\$ Move	OOK

Air/Cable	Air
Auto Scan	
Favorite	
Show/Hide	
Channel No.	2.2
Channel Label	K C B S - S D
DTV Signal	Bad

Air/Cable	Air
Auto Scan	
Favorite	
Show/Hide	
Channel No.	12.4
Channel Label	ктви
DTV Signal	Normal

Show/Hide

Press the \checkmark buttons to highlight the Show/Hide adjustment. Press the \blacktriangleright button to enter the Show/Hide submenu seen at left. This will allow you to delete specific channels from the channels that will appear when you use the CH+/CH- buttons on the remote or on the TV.

To delete a channel from your CH+/CH- channel scan, press the $\checkmark \blacktriangle$ buttons to highlight the channel. Press the $\leftarrow \dashv$ button to delete the channel from the scan list. You will see a \oslash character appear next to the channel in the list.

To restore a channel to your CH+/CH- channel scan, press the ▼▲ buttons to highlight the channel. Press the ← button to restore the channel from the scan list. You will see the character next to the channel disappear.

Channel No.

Press the \checkmark buttons to highlight the Channel No. adjustment. Press the \checkmark buttons to change the channel number for which you wish to change the Channel Label or view the signal strength on the DTV Signal meter.

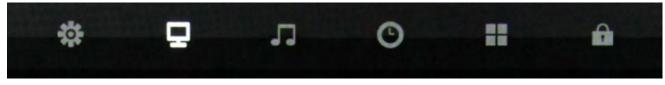
Channel Label

Press the ▼▲ buttons to highlight the Channel Label adjustment. Press the ▶ button to enter the Channel Label mode. As seen in the screen at left, a selection window will appear over the existing channel name. This will allow you to change the name of the channel as it appears onscreen when you select it.

Press the \checkmark buttons to change the highlighted letter or character. Press the \blacktriangleright button to move on to the next character, and repeat the process until the new channel name is entered. A total of seven characters is available for each channel label.

DTV Signal

This meter, shown near the bottom of the image at left, indicates the signal strength of the channel shown in the Channel No. item of the menu. The longer the horizontal bar appears, the better the signal strength. If the signal strength is extremely poor, no meter will appear and the menu will simply say Bad.



- 1. Press ▼▲ buttons on the remote or CH+/CH- on the TV) to move the cursor to the item to be selected.
- 2. Press ◀ ► buttons on the remote or VOL+/VOL- on the TV to make the desired adjustments.
- 3. When your adjustments are complete, press MENU or EXIT on the remote or MENU on the TV to exit the main menu.



Picture Mode

Press the $\checkmark \blacktriangle$ buttons to highlight Picture Mode, then use $\blacktriangleleft \triangleright$ to select Standard, Dynamic, Theater or Personal picture mode.

Contrast

Press the \checkmark buttons to highlight Contrast adjustment, then use \checkmark b to adjust contrast. This adjustment is available only when Personal picture mode is selected.

Brightness

Press the \checkmark buttons to highlight Brightness adjustment, then use \checkmark b to adjust brightness. This control is active only when Personal picture mode is selected.

Sharpness

Press the \checkmark buttons to highlight Sharpness adjustment, then use \checkmark b to adjust sharpness. This control is active only when Personal picture mode is selected.

Tint

Tint adjustment is not supported on this model.

Color

Press the \checkmark buttons to highlight the Color adjustment, then use \checkmark to adjust color saturation. This control is active only when Personal picture mode is selected.

Color Temperature

Press the $\checkmark \blacktriangle$ buttons to highlight Color Temp. adjustment, then use $\blacktriangleleft \triangleright$ to select Normal, Warm or Cool color temperature.

Zoom Mode

Press the \checkmark buttons to highlight Zoom Mode adjustment, then use \checkmark to select picture zoom mode. With HDMI, the choices are 16:9, 4:3, or Point to Point. With other signals, the choices are 16:9, 4:3, Full or Zoom.

3D Noise Reduction

Press the $\mathbf{\nabla} \mathbf{A}$ buttons to highlight 3DNR adjustment, then use $\mathbf{\triangleleft} \mathbf{\triangleright}$ to select Off, Weak, Middle or Strong NR mode.

Backlight

Press the $\checkmark \blacktriangle$ buttons to highlight Backlight adjustment, then use $\triangleleft \triangleright$ to adjust backlight brightness.

Dynamic Light Control

Press \checkmark button when you are at the bottom of the Picture menu to highlight DLC, then use \checkmark \triangleright to turn DLC on and off. DLC automatically optimizes brightness and contrast for the program you're watching.

Adjusting On-Screen Displays – Audio Menu



- 1. Press ▼▲ buttons on the remote or CH+/CH- on the TV) to move the cursor to the item to be selected.
- 2. Press ◀ ▶ buttons on the remote or VOL+/VOL- on the TV to make the desired adjustments.
- 3. When your adjustments are complete, press MENU or EXIT on the remote or MENU on the TV to exit the main menu.



Equalizer

Press the $\checkmark \blacktriangle$ buttons to highlight Equalizer, then use $\blacktriangleleft \triangleright$ to select Standard, Music, Movie, Sports or Personal sound mode.

120 Hz

Press the ▼▲ buttons to highlight 120 Hz, then use ◀► to adjust the 120 Hz (bass) audio band. This adjustment is available only when Personal sound mode is selected.

500 Hz

Press the \checkmark buttons to highlight 120 Hz, then use \checkmark to adjust the 500 Hz (lower midrange) audio band. This adjustment is available only when Personal sound mode is selected.

1.5 kHz

Press the \checkmark buttons to highlight 1.5 kHz, then use \checkmark to adjust the 1.5 kHz (upper midrange) audio band. This adjustment is available only when Personal sound mode is selected.

5 kHz

Press the \checkmark buttons to highlight 5 kHz , then use \checkmark to adjust the 5 kHz (lower treble) audio band. This adjustment is available only when Personal sound mode is selected.

10 kHz

Press the \checkmark buttons to highlight 10 kHz, then use \triangleleft \triangleright to adjust the 10 kHz (upper treble) audio band. This adjustment is available only when Personal sound mode is selected.

MTS

This function is supported only with analog broadcast signals, which are no longer used in the U.S.

Audio Language

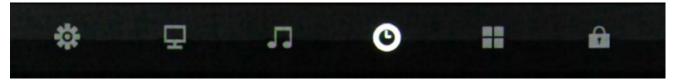
Press the ▼▲ buttons to highlight the Audio Language adjustment, then use ◀ ► to select English, Spanish or French. This function operates only with multiple-language TV broadcasts, and not with any of the video inputs.

Digital Output

Press the \checkmark buttons to highlight the Digital Output adjustment, then use \blacktriangleleft be to select PCM or Raw (bitstream). Use Raw only if the connected audio system can decode Dolby Digital. This function operates only when TV is selected as the source.

Surround Sound

Press the \blacksquare buttons to highlight the Surround Sound adjustment, then use \blacktriangleleft \blacktriangleright to switch the surround sound effect on and off.



- 1. Press ▼▲ buttons on the remote or CH+/CH- on the TV) to move the cursor to the item to be selected.
- 2. Press ◀ ► buttons on the remote or VOL+/VOL- on the TV to make the desired adjustments.
- 3. When your adjustments are complete, press MENU or EXIT on the remote or MENU on the TV to exit the main menu.





WakeUp	
Year 2014	
Month 3	
Day 6	
A	+ >
Minute 30	
Menu	

Sleep Timer

Press the ▼▲ buttons to highlight Sleep Timer, then use ◀ ► to select Off or 5, 10, 15, 30, 60, 90, 120, 180 or 240 minutes. The TV will turn off automatically after the selected time has elapsed.

Time Zone

Press the ▼▲ buttons to highlight the Time Zone adjustment, then use ◀ ► to select Atlantic, Eastern, Central, Mountain, Pacific, Alaska or Hawaii time zone.

Daylight Saving Time

Press the \checkmark buttons to highlight the DST adjustment, then use \triangleleft \triangleright to turn daylight saving time on and off.

Time Format

Press the $\checkmark \blacktriangle$ buttons to highlight the Time Format adjustment, then use $\blacktriangleleft \triangleright$ to select 12-hour or 24-hour.

Auto Sync

Press the \checkmark buttons to highlight the Auto Sync adjustment, then use \checkmark to turn auto sync on and off. Auto sync automatically sets the time on your TV based on information from TV signals. Clock setting and DST adjustments are not available when auto sync is activated.

Clock

Press the \blacksquare buttons to highlight the Clock setting adjustment, then use \blacktriangleleft be to enter the Clock submenu pictured at left.

Now press the $\checkmark \blacktriangle$ buttons to highlight the adjustment you want to make (day, hour, minute, etc.), then use $\blacktriangleleft \triangleright$ to make the adjustment. Repeat until the clock is set correctly.

Wake Up

This function allows the TV to turn on automatically at a preset time. Press the $\checkmark \blacktriangle$ buttons to highlight the Wake Up setting adjustment, then use $\blacktriangleleft \triangleright$ to enter the Wake Up submenu pictured at left.

Now press the $\bigvee \blacktriangle$ buttons to highlight the adjustment you want to make (day, hour, minute, etc.), then use $\blacktriangleleft \triangleright$ to make the adjustment. Repeat until the desired wake up time is set.



- 1. Press ▼▲ buttons on the remote or CH+/CH- on the TV) to move the cursor to the item to be selected.
- 2. Press ◀ ▶ buttons on the remote or VOL+/VOL- on the TV to make the desired adjustments.
- 3. When your adjustments are complete, press MENU or EXIT on the remote or MENU on the TV to exit the main menu.



Menu Language

Press the ♥▲ buttons to highlight Menu Language, then use ◀▶ to select English, French or Spanish.

Transparent

Press the ▼▲ buttons to highlight Transparent, then use ◀► to select to what degree the picture shows through the on-screen menus: 0%, 25%, 50%, 75% or 100%. At 0%, none of the underlying picture will show through the menus.

Restore Default

Press the $\checkmark \blacktriangle$ buttons to highlight Restore Default, then use $\checkmark \triangleright$ to bring up the Restore Default submenu. Press \blacktriangleleft to restore the TV to factory settings, press \triangleright to cancel.



Mode

Font Style

Font Size

FG Color

BG Color

FGOpacity

BGOpacity

MENU

Font Edge Style

Font Edge Color

~			^ -		
	ns	ea	La	DT	on
	~ ~	ed		P	~

This option appears only when TV is selected as the source.
Press the ▼▲ buttons to highlight Closed Caption, then use
◆ to enter the CC Mode submenu shown at left. Pressing
◆ will now select among the three closed caption modes: Off, On and CC on Mute. The last option shows captions only when mute is activated.

Advanced Selection Services

When the CC Mode submenu is on-screen, press the $\bigvee \triangle$ buttons to highlight Advanced Selection Services. Use $\blacktriangleleft \triangleright$ to select Advanced Selection Services Off or 1-6. Availability of these services depends on the TV program.

Options	5
---------	---

Custom

Font1

Large

Raised

Black

Red

Blue

Translucent

Solid

When the CC Mode submenu is on-screen, press the \checkmark buttons to highlight Options. This option is available only when one of the Advanced Selection Services is selected. Use the \dashv button to enter the Options submenu shown at left.

Now the \blacktriangleleft will allow you to select Default or Custom mode for the captions. In Custom Mode, you can use the \checkmark buttons to select different options, such as font style and size, font color and background color, then use \blacktriangleleft to adjust these options.

Setup Wiz	zard	S	etup Wiza	ard
Menu Language	English 区	< Time Zone		Pacific
Go to next st	tep	DST		On
		Time Forma	ıt	12-hour
			Go to next step	
Please select your pre	fer language	Select the ti	me zone & Daylig	ht saving time
		-		O OK
Setup Wiz	©]oĸ zard		etup Wiza	
			etup Wiza	
			etup Wiza ₀	
Setup Wiz	zard	S	-	ard
Setup Wiz	zard	S Found :	0	ard Programme(S)
Setup Wiz	zard Air P	S Found : Analog :	0 0 0	Programme(S) Programme(S)

Setup Wizard

Press the ▼▲ buttons to highlight Setup Wizard, then use ◀ ► to start the Setup Wizard. You will see the first of four submenus, all of which are shown at left. The Setup Wizard will take you quickly through several basic settings on the TV, including Menu Language, Time Zone, DST on/off, Time Format, Air/Cable and Auto Scan.

For each of the first three menus, press the $\checkmark \blacktriangle$ buttons to highlight each setting to be adjusted, then use $\blacktriangleleft \triangleright$ to make the adjustment. When you're finished with the adjustments on a submenu, press \checkmark to highlight Go to Next Step, then press \blacktriangleleft or \triangleright to go to the next screen of the Setup Wizard.

When you have finished with the third Setup Wizard screen, the Setup Wizard will automatically activate Auto Scan to identify and memorize the channels that can be received.

Software Update (USB)

This function is used to update the software on your TV. Consult your dealer or SunBrite TV for more information.

Blue Screen

Press the \checkmark buttons to highlight the Blue Screen adjustment, then use \checkmark to activate or deactivate the blue screen that appears when no signal is available at the selected input.

HDMI Mode

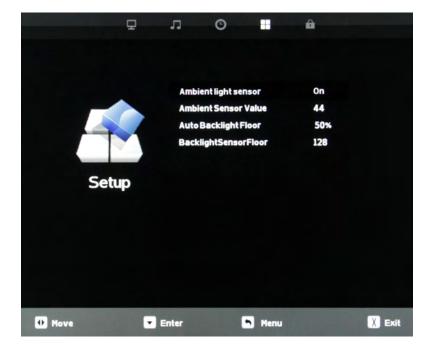
Press the ▼▲ buttons to highlight the HDMI Mode adjustment, then use ◀ ► to select Video or PC HDMI mode. The PC mode shows every pixel in the image. The Video mode crops off a few percent of the image on each size and zooms the cropped image in to fill the screen.

Earphone

The 3.5mm earphone output on the rear panel can be used for headphones or as an audio output to feed a soundbar or other external audio system. Press the $\checkmark \blacktriangle$ buttons to highlight the Earphone adjustment, then use $\blacktriangleleft \triangleright$ to switch the earphone output on and off.

Speaker

This control turns the TV's internal speakers on and off. Press the $\checkmark \blacktriangle$ buttons to highlight the Speaker adjustment, then use $\blacktriangleleft \triangleright$ to switch the internal speakers on and off.



Ambient Light Sensor

Press the \checkmark buttons to highlight the Ambient Light Sensor adjustment, then use \blacktriangleleft \blacktriangleright to turn the ambient light sensor on and off. The ambient light sensor automatically measures ambient light level and adjusts the backlight to the level preset using the Auto Backlight Floor adjustment explained below. When TV is selected as a source, you will have to go all the way to the bottom of the Setup menu and press \checkmark to reach this adjustment.

Ambient Sensor Value

This meter shows the level of ambient light as measured at the light sensor on front of the TV (near the SunBright TV logo). This shows the level of the ambient light. The value in the meter remains fixed until another menu item is highlighted. To refresh the meter, press the \checkmark \blacktriangle buttons. Unless TV is selected as the source, you will have to go all the way to the bottom of the Setup menu and press \checkmark to reach this adjustment. This adjustment is available only when the ambient light sensor is activated.

Auto Backlight Floor

This adjustment sets the level to which the backlight will be lowered when the ambient light level falls below the level set on the Backlight Sensor Floor adjustment below. Press the \checkmark buttons to highlight the Auto Backlight Floor adjustment, then use \blacktriangleleft to set the auto backlight floor value. This adjustment is available only when the ambient light sensor is activated.

Backlight Sensor Floor

This adjustment sets the threshold for the automatic backlight adjustment, governed by the ambient light sensor.

When the Ambient Light Sensor value is above the Backlight Sensor Floor value, the backlight level will be 100%.

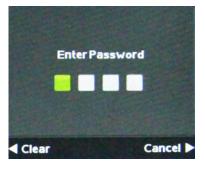
When the Ambient sensor value is below BackLightSensor Floor value the backlight is reduced to the level set with the Auto Backlight Floor adjustment.

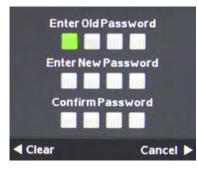
Press the \checkmark buttons to highlight the Backlight Sensor Value adjustment, then use \blacktriangleleft \succ to set the backlight sensor value. This adjustment is available only when the ambient light sensor is activated.



- 1. Press ▼▲ buttons on the remote or CH+/CH- on the TV) to move the cursor to the item to be selected.
- 2. Press ◀ ▶ buttons on the remote or VOL+/VOL- on the TV to make the desired adjustments.
- 3. When your adjustments are complete, press MENU or EXIT on the remote or MENU on the TV to exit the main menu.







System Lock

Press the ▼▲ buttons to highlight System Lock, then use ◀ ▶ to enter the Password menu shown at lower left. This menu allows you to set a password that will be required to access inputs that are locked out using the Input Block feature described below. Selecting Hotel Mode will remove the System Lock option from the menu until Hotel Mode is deactivated.

You must enter the system password to access this feature. See instructions below.

Hotel Mode

Press the ▼▲ buttons to highlight System Lock, then use ◀► to enter the Password menu shown at lower left. This menu allows you to set a password that will be required to access inputs that are locked out using the Input Block feature described below. Selecting Hotel Mode will remove the System Lock option from the menu until Hotel Mode is deactivated.

You must enter the system password to access this feature. See instructions below.

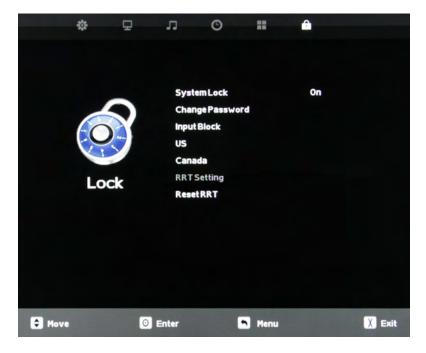
Enter Password

You will have to enter the TV's password to turn the System Lock feature on and off. Use the numeric keypad on the remote to enter the password. The default password is 0000. You can change this password using the Change Password feature in the menu.

Change Password

Press the ▼▲ buttons to highlight Change Password, then use ◀ ► to enter the Change Password menu shown at left. To change the password, use the numeric keypad on the remote to enter the current password (0000 unless you previously changed it), then enter the new password twice.

If you enter a new password but forget it later, contact your SunBrite TV dealer for assistance.



InputBlock			
τν	UnBlock	Þ	
AV	Block		
S-Video	Block		
Component	Block		
Component	Block		
HDMI1	UnBlock		
	Menu		

Using System Lock

Once you are in System Lock mode, press the $\checkmark \blacktriangle$ buttons to highlight the different functions in the menu, then use $\checkmark \triangleright$ to activate those features.

Input Block

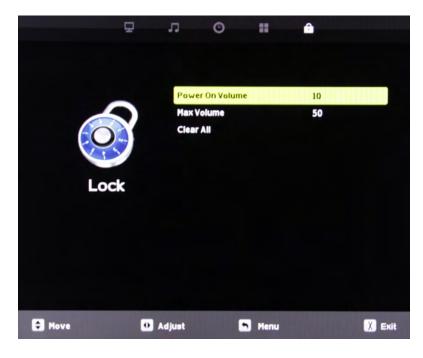
To use the Input Block function, you must enter the Input Block submenu shown at left. After activating System Lock Mode, press the $\checkmark \blacktriangle$ buttons to highlight the different inputs in the submenu, then use $\blacktriangleleft \triangleright$ to block or unblock those inputs.

If an input is blocked, using it will require entering the system password.

US Canada RRT Setting Reset RRT

These functions are not adjustable and are for service use only.

Ţ	лон	Ê
	Hotel Mode	On
	Change Password Picture Mode Sound Mode	Dynamic
CT S	Sound Hode Key Lock	Music On
L a alt	SearchLock	On
Lock	Power On Source	TV
	Air/Cable	Air
	Power On Channel	7.1
e Move	Adjust 🖪 Me	nu 🚶 Exit



Using Hotel Mode

Once you are in Hotel Mode, press the $\checkmark \triangle$ buttons to highlight the different functions in the menu, then use $\checkmark \triangleright$ to activate those features.

Picture Mode

Press the ▼▲ buttons to highlight Picture Mode, then use ◀ ▶ to choose among Dynamic, Standard, Theater and Personal picture modes. This will be the preset picture mode for the TV, changeable only by re-entering the Hotel Mode menu and/or deactivating Hotel Mode.

Sound Mode

Press the ▼▲ buttons to highlight Sound Mode, then use ◀ ► to choose among Music, Movie, Sports and Personal sound modes. This will be the preset sound mode for the TV, changeable only by re-entering the Hotel Mode menu and/or deactivating Hotel Mode.

Key Lock

Press the \checkmark buttons to highlight Key Lock, then use \checkmark b to turn Key Lock on and off. Key Lock mode deactivates the sidepanel controls on the TV except for the power button.

Search Lock

Press the ▼▲ buttons to highlight Search Lock, then use ◀ ► to turn Search Lock on and off. Search Lock mode prevents activation of the Auto Scan channel scanning model without entering the system password.

Power On Source

Press the \checkmark buttons to highlight Power On Source, then use \checkmark b to select among the different inputs. This is the source that will be selected when the TV is turned on.

Air/Cable

Press the \checkmark buttons to highlight Air/Cable, then use \checkmark be to select Air (antenna) or Cable tuning for the TV input. This selection cannot be changed without entering the system password.

Power On Channel

Press the \checkmark buttons to highlight Power On Channel, then use \triangleleft \blacktriangleright to select the default TV channel that will come up every time the TV is turned on.

Power On Volume

You can reach Power On Volume and the other settings below by pressing the ▼ button when Power On Channel is highlighted. This will highlight Power On Volume. Use ◀ ► to set the default volume level that will be set every time the TV is turned on.

Max Volume

Press the \checkmark buttons to highlight Max Volume, then use \checkmark b to set the maximum volume level the TV can be turned up to.

Clear All

Press the \checkmark buttons to highlight Clear All, then use \checkmark b to return all of the above adjustments to factory default settings.

Using the USB Input

Using the USB input on the rear panel of the TV, you can access material stored on a USB stick. The material can be MP3 or WAV music files, or JPEG or BMP pictures. The TV also has the ability to display the first few sentences of plain text (.TXT) documents, but because it shows only a few lines, this function is of very limited use.



Accessing the USB input

Press the Source button on the remote or on the side control panel of the TV, then press ▼▲ buttons to highlight USB. Now press ← to select the USB input. The main USB menu seen below left will appear.



Selecting the Media on the USB Stick

From the main USB menu seen at left, you can choose the type of media you want to access: photos, music or text. Use ◀ ► to highlight the type of media you want to watch, then press ← to select a media type..

This action will take you either directly to media on the USB stick, or to the folders on the stick that the media is stored in. If folders appear, press \blacktriangleleft to highlight the folder you want, then press \leftarrow to open the folder.



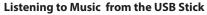
Viewing Pictures from the USB Stick

Highligh a thumbnail and press ← to select photo.

Press **POS** button on the remote to start and pause the slideshow.

Use Menu and the $\blacksquare \blacksquare$ buttons to select various slide show options.

Slideshow will allow you to select the transitions between the slideshow.



Use ◀ ► to highlight the tune you want to listen to, then press ← to play the tune.. The music will begin playing, and a text screen that shows data about the audio file will appear.



The following table contains the common problems and the solutions to these problems. Please check this list before you contact the technicians.

Trouble	Solutions				
No picture	Check the following: Power cord is connected correctly. Power is turned on. The video cable is connected correctly. You have selected the proper input signal source. If you have done the above, without resolve, unplug TV for at least 1 hour to perform Hard Reset.				
Abnormal colors	Match the colors on the cable to the connector. (Red cable to red colored port.)				
Picture is too dark	Adjust your contrast, brightness and backlight settings from the OSD menu				
Audio only, no picture	Make sure both the audio and video cables are connected. The TV tuner signal must not be lower than 65 percent. Unplug TV for at least 1 hour to perform Hard Reset.				
Picture only, no audio	Make sure the audio cable is connected. Readjust your volume via the remote control. The TV tuner signal must not be lower than 65 percent.				
Remote control does not work	Turn off the TV, unplug it from the socket. Remove the batteries from the remote for 30 minutes. Press the remote buttons and the power button randomly for 2 full seconds, then reinstall the batteries.				
	The TV's remote sensor is housed in the same place as the power indicator light. Make sure there is line of sight from the remote control's first sensor to the remote sensor of the TV.				
Cannot receive sufficient channels through the ATSC/NTSC Tuner	The TV's tuner signal must not be lower than 65 percent. Change the direction of your antenna and re-scan the channels. If you have cable, call the cable provider and ask to have your signal strength checked.				
No color	Adjust your picture setup and make sure the color saturation is not turned all the way down.				
Weak signal or no program symbol on screen	The TV tuner signal must not be lower than 65 percent. Change the direction of your antenna and re-scan the channels. If you have cable, call the cable provider and ask to have your signal strength checked.				
TV's Universal Remote Code	This television follows Sony's universal remote code. You may be able to find SunBriteTV's code in your own universal remote's guide book.				
TV channels are blocked	Check the Auto Lock function settings on the OSD. Channels may have been locked previously.				
The TV turns on or off slowly, and the screen shows up slowly	This is a high definition liquid crystal display panel TV. It requires a few more seconds than normal TVs to power up and show the picture.				
No sound from PC	Make sure you have a 3.5 mm mini-jack cable connected from your PC's sound output to the TV's VGA Stereo Input.				
HDCP video says no HDCP support	Reboot your HDCP video device by turning it off, and unplugging the power cord. Wait up to 8 minutes to plug the power back in to see if that works.				
HDCP video has no audio	Make sure you have a 3.5 mm mini-jack cable connected from your HDCP video device sound output to the TV's VGA stereo input. If your HDCP video device uses RCA audio jacks, you'll need to obtain an audio cable with RCA plugs on one end and a 3.5mm plug on the other.				
Cannot get 1920 x 1080 from PC VGA	The screen's max resolution is 1920 x 1080. Your video card may not support this resolution. Check your video card's maximum resolution, and use that setting.				
Picture is distorted or has an abnormal sound	This might be from interference from large electrical appliances, cars, motorcycles or fluorescent lights. If the TV is close to the wall, try moving the TV to another location to see if the problem still occurs.				
Picture does not cover the entire screen	If you are using HDMI or a TV digital channel, use the Aspect button to switch to 16:9 format. If you are using VGA, use the computer's video controls to adjust the image to the screen. Note: If you are watching regular 4:3 TV or 4:3 signals from a VCR or DVD player in 480i resolution, use the Aspect button to switch to 16:9 in order to fill up the screen. However, this feature will distort the picture.				

Trouble	Solutions		
Picture quality is very poor	For best image quality, view HD widescreen programs. If HD content is not available, use a digital source (DVD or Blu-ray player, digital satellite or digital cable box). Standard 480i TV programs will be noticeably inferior to HD quality.		
Some pixels are always displaying the same color	SunBriteTV LCD screens are manufactured to rigorous standards to maintain optimal viewing. However, the LCD screen may have minor defects that appear as a small bright or dark pixel. This is common to all LCD screens used in display and television products, and is not specific to SunBriteTV. For more information, see SunBriteTV's Pixel Quality Policy in this manual.		
Switching a channel or source changes the volume	Different channels and inputs sometimes have this effect because the channel signal's volume is pre-set.		
There is noise or trash pixels on the screen	When your TV's resolution is higher than the digital channel's broadcast resolution, the signal is up-converted to match your TV's resolution. Up-converting can cause this kind of effect.		
Tips for high- definition users	The TV is an ideal platform for viewing high-definition content. The best image quality can be achieved by HDMI, YPbPr (component), then VGA. However, due to variances in broadcast practices, it is possible that some image distortion may occur.		
Tips for letterbox content users	Letterbox (widescreen) versions of DVD movies are most commonly formatted for standard 4:3 TVs. The TV has the capability of expanding this content so the entire screen is filled, at the expense of the image proportion. To use this function, press the Aspect button on the remote control and cycle among the available options.		
The TV turns off automatically	The TV features a power-saving mode which will automatically turn off the TV if there is no signal provided for 15 minutes.		

Caring for the LCD Panel:

1. Cleaning the LCD Panel:

With your TV turned off, gently wipe the surface of the display panel with a damp (with water) microfiber, cotton or flannel cloth. (Do not use tissues, rags, sponges or paper towels because they may damage the screen and leave lint pieces behind).

If the LCD panel is very dirty, you can mix equal parts of isopropyl alcohol and distilled water in a clean spray bottle, spray the mixture onto the cloth (do not spray the solution directly on the panel) and gently clean the panel.

A "special outdoor formula" LCD Cleaning Kit is now available and can be ordered from SunBriteTV.

2. When the TV is not in use, keep it covered with the SunBriteTV Outdoor Dust Cover:

The fitted dust cover is designed to protect the LCD panel from the harmful UV rays from direct sunlight, and keeps windblown objects from scratching the surface of the panel.

To order a replacement Dust Cover or Cleaning Kit, contact your Authorized SunBriteTV dealer, SunBriteTV's Customer Care Center at 800.331.4626, or visit www.sunbritetv.com.

General Cleaning

Remove any dirt and salt deposits from the unit, being careful to rinse the cloth frequently to avoid scratching the TV or screen surface. Avoid using harsh chemicals, abrasives, or solvents when cleaning any surface on the unit.

Snow and Ice

Use a soft brush and towel to remove snow and ice from the unit.

Fiber Filter Over time, the fiber filter collects dirt and must be cleaned or replaced periodically.

The Fiber Filter is located on the back of the unit, inside the Intake and exhaust vent at the top and bottom of the TV (Figure 1).

1. Release the fiber filter cage by removing the two 6-32 fastening screws(Figure 2) and removing the filter cage by pulling on the tab as shown.(Figure 3) The filter cage is a tight fit, you may need to gently pull on the vent openings to work the filter cage from the rear bezel.

2. Pull the Fiber filter out of the TV, and wash it with mild detergent and warm water. After rinsing, let the Fiber Filter dry completely. If necessary replace the filter material. (Figure 4)

3. Put the Fiber Filter cage back into the rear bezel and secure with two 6-32 screws. Figure 1 Exhaust Vent



Intake Vent

Figure 2



Figure 3





Figure 4

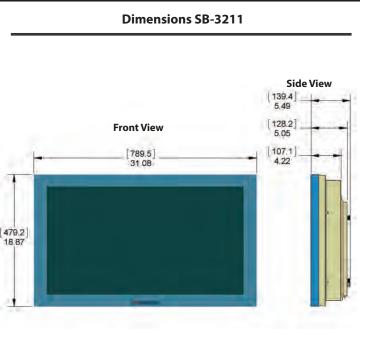


CAUTION! NEVER SPRAY OR DIRECT A HOSE INTO THE VENT AREA OF THE TV.

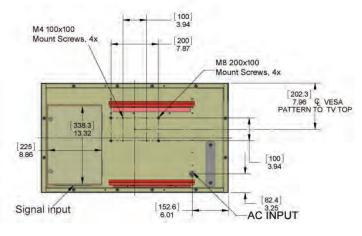
To Order Replacement Filters, contact SunBriteTV's Customer Care Center at 800.331.4626.

Specifications

	·			
LCD Screen	32-inch diagonal Color Active Matrix TFT LED LCD			
Resolution	1920 x 1080 full-HD 1080p			
Aspect Ratio	16:9			
Blacklight Brightness - Surface Luminance, white	1000 nits (cd/m2)			
Contrast Ratio	1300:1			
Viewing Angle	178º x 178º			
Response Time	25 milliseconds			
TV formats	1080p, 1080i, 720p, 720i, 480p, 480i			
Input Connectors:				
Tuner	Antenna/CATV (ATSC/QAM/NTSC) x1			
HDMI	HDMI™ Input x 2			
Video Composite	S-Video x1 and Composite Video x1, L/R Audio Inputs x1			
Video Component	YPbPr plus Stereo Audio x2			
РС	15-pin D-sub VGA plus Stereo Audio			
Control Set	RS232 Serial, Discrete IR Control, Concealed rear IR Window			
Audio Out	Digital SPDIF x 1 (fixed) Analog 1/8" headphone jack (variable)			
Accessory DC Power Out	5vdc @ 3.5amps 1.3mm power jack or usb type A jack 12vdc @ 3amps 2.5mm power jack			
Speaker bar	10-watt x 2 channel water-resistant detachable speaker module			
Exterior	Powder-coated aluminum			
Colors	Black, Silver and White			
Input Power	100-240 VAC, 50-60 Hz 2.8 A Max (2.25a @ 120VAC)			
Operating Temp.	-40° to 122° F. (-40° to 50° C.) *			
Non-op. Temp. (Off-mode with power applied)	-40° to 140° F. (-40° to 60° C.) The non-operating temperature feature requires power to be applied			
Accessories Included	Water-resistant remote control, weatherproof sound bar			
Dimensions Landscape	31.08in W x 18.87in H (21.87in H with speaker) x 5.42in D 789.5mm W x 479.2mm H(555.4mm H with speaker) x 137.7mm D			
Weight	41 lbs; 45 lbs with speakers 18.6kg ; 20.4kg with speakers			
Residential Warranty	Two year, in-factory, parts and labor			
Commercial Warranty	Two year, in-factory, parts and labor			
Mount Pattern	100 mm x 100 mm or 200mm x 100mm			



Rear View



1/27/2017

Specifications are subject to change.

Programming Other Manufacturers' Universal Remote Control Devices

When programming a DirectTV, local cable universal remote control or Control system, you may find that SunBriteTV may not be on the list of TV manufacturers. If that is the case, your SunBriteTV supports SONY's universal remote code.

SunBriteTV Pixel Quality Policy

SunBriteTV's Pixel Quality Policy

(Applicable to LCD TVs sold within USA and Canada only.)

SunBriteTV LCD screens are manufactured with rigorous standards to maintain optimal viewing. However, the LCD screen may have minor defects that appear as a small bright or dark pixel. This is common to all LCD screens used in display and television products, and is not specific to SunBriteTV.

Bright dots are dots that appear bright and unchanged in size when a LCD TV screen displays a black pattern.

Dark dots are dots that appear dark and unchanged in size when a LCD TV screen displays a pure red, green, or blue pattern.

Adjacent dots are pixels located directly next to each other.

Your SunBriteTV will be replaced under warranty if it meets one of the following criteria:

- -A total of 7 defective pixels, including both bright dots and dark dots are present. (This LCD screen has over a million pixels.)
- -2 or more pairs of adjacent bright dots are present.
- -3 adjacent bright dots are present.
- -3 adjacent dark dots are present.

To locate defective pixels, the LCD panel should be examined under normal operating conditions, in its native display resolution, with a 90 degree viewing angle, from a distance of a approximately 20 inches.

To qualify for replacement, a defective LCD screen must be reported to SunBriteTV within 60 days from the day the customer receives the TV.

For questions, please call our Customer Care Center at 800.331.4626.

Internal Thermostatically-Controlled Heater

The Internal Thermostatically-Controlled Heater keeps the unit warm in freezing temperatures and activates automatically when the SunBriteTV internal temperature sensor reads a temperature inside the unit of 32° F. or lower. The heater remains on until the internal temperature rises to at least 42° F. The heater provides a 20° F. temperature rise, allowing the TV to safely remain in temperatures as low as -24° F. The ventilation fans are not activated when the heater is running and will automatically activate when required.

Note: In order for the automatic heater to work properly, your SunBriteTV must have power applied at all times.

Extreme Climate Warning

If temperatures below -24° F. are expected, we recommend that you bring your SunBriteTV inside to prevent damage to the LCD screen.

IR Emitter Installation

To install the IR Emitter:

The photo to the right shows an IR Emitter* installed.

The end of the Emitter is to be mounted in front of the IR Emitter Window.

Place the emitter on the white tie-down block and use the tie-down to secure it in place.

Place the emitter cable over the bottom of the cable box and connect the other end of the emitter to the appropriate control block*.

Note it may be necessary to use a small amount of glue to secure the IR emitter in place as most IR emitters dual stick tape do not adhere well to powder coated surfaces. Use a small amount of glue or RTV (Silicon) to secure the emitter in place yet allowing it to be removed or replaced.

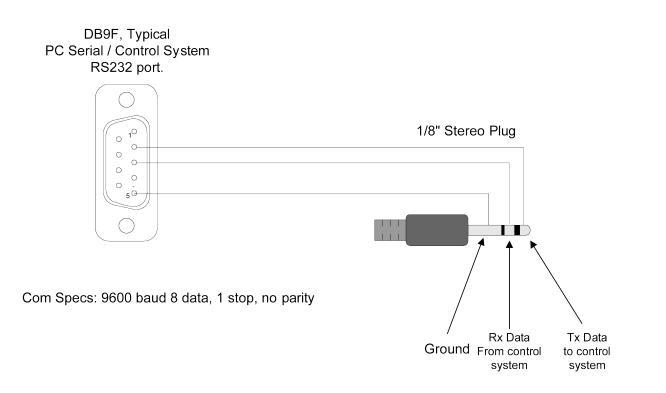
Follow instructions on page 8 to close the cable door.

* 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 connections.



Place IR Emitter Cable over the bottom of the cable door.

Appendix A - RS232 Control Cable Pinout



	RS 232	Contro	ol codes SunbriteTV		
Com Spec: 9600,8,1,n	ASCII	HEX	Commands do not require Carriage return or line feed Command Received Response Command Executed Response		
			from TV to control system	from TV to control system	
Model Class ID	[ESC]?	1B 3F	[BXXXXXAHD-X.XX] or	na	
Firmware Version	[ESC]?	1B 2E	XXXXX-X.XX	main board followed by version	
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	[1]	[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		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	
	[ESC]z	1B 7A	[SLEEP]	na	
Sleep					
Picture	[ESC]p	1B 70	[PICT]	na	
Sound	[ESC]s	1B 73	[SND]	na	
Menu	[ESC]m	1B 6D	[MENU]	na	
Up Arrow	[ESC]^	1B 5E	[^]	na	
Down Arrow	[ESC]v	1B 76	[V]	na	
Left Arrow	[ESC]>	1B 3E	[<]	na	
Right Arrow	[ESC]<	1B 3C	[>]	na	



www.sunbritetv.com