

# **Operator's Manual**



Model 5510HD

Dear SunBriteTV Customer:

Congratulations on your ownership of the SunBriteTV Model 5510HD. This product is designed as a weatherproof LCD television that can be installed outdoors. To ensure safety and minimize mechanical malfunctions of your product, please read the Important Safety Instructions carefully before using this product.

# **IMPORTANT SAFETY INSTRUCTIONS**

1) Read these instructions.

2) Keep these instructions.

3) Heed all warnings.

4) Follow all instructions.

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

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

7) 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.

8) 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.

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

10) 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.

11) Unplug this apparatus during lightning storms or when unused for long periods of time.



12) 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, the apparatus has been exposed to rain or moisture, 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 mains 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. The inside of this apparatus shall not be exposed to dripping or splashing, and no objects filled with liquids, such as vases, shall be placed on the apparatus.

This product utilizes tin-lead solder, and fluorescent lamp containing a small amount of mercury. 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.

## Important Safety Instructions

**Cleaning Instructions:** Use a soft cloth with mild detergent in warm water to clean the SunBriteTV screen. Remove any dirt and salt deposits from the unit, being careful to rinse the cloth frequently to avoid scratching the screen surface. Avoid using harsh chemicals, ammonia, abrasives, or solvents when cleaning any surface on the screen. When the TV is not in use, it is important to keep it covered with the SunBriteTV fitted Outdoor Dust Cover. Use a soft brush or towel to remove snow and ice from the TV. In areas where dust or salt air is prevalent, it is recommended that the fiber filter be cleaned regularly (see instructions on Page 43).

**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.

WARNING: DO NOT IMMERSE TELEVISION IN WATER OR OTHER LIQUID. DO NOT INSTALL TV WITHIN 5 FEET OF BODY OF WATER (SUCH AS SPA OR POOL).



## **IMPORTANT SAFETY PRECAUTIONS**

If an outside antenna is connected to the television equipment, be sure the antenna system is grounded so as to provide some protection against voltage surges and built-up static charges. Section 810 of the National Electrical Code provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit, connection to grounding electrodes, and requirements for the grounding electrode EXAMPLE OF ANTENNA GROUNDING AS PER NATIONAL ELECTRICAL CODE ANTENNA LEAD-IN WIRE GROUND CLAME ANTENNA DISCHARGE LINIT FI ECTRIC (NEC SECTION B10-20) SERVICE GROUNDING CONDUCTORS (NEC SECTION 810-21) GROUND CLAMPS POWER SERVICE GROUNDING ELECTRODE SYSTEM NEC-NATIONAL ELECTRICAL CODE (NEC ART 250, PART H) For added protection for this television equipment during a lightning storm, or when it is left unattended and unused for . ng periods of time, unplug it from the wall outlet and disconnect the antenna. This will prevent damage to the equipment due to lightning and power-line surges An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or system, extreme circuits. When installing an outside antenna care should be taken to keep from touching such power

# **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.



FOR HOME OR OFFICE USE

#### SunBriteTV Model 5510HD Operator's Manual

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. Do not block ventilation slots and openings with objects, or install the television in a place where ventilation may be hindered. **SunBriteTV is not designed for built-in installation.** Do not place the product in an enclosed place such as bookcase or rack.

**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 Model 5510HD Remote Control with Batteries Operator's Manual Speaker Module











Operator's Manual

Water-Resistant Wireless Remote Control

# TV Installation - Choose a Location for the TV

## 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.

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.



## **Detachable Speaker Module Installation**

Tools Needed: Phillips screwdriver

#### Note:

a. If you mount the TV on the Table Stand, *the Detachable Speaker Module must be installed before you attach the Table Stand.* b. If you mount the TV to a ceiling or wall mount, it is best to install the Detachable Speaker Module after the TV has been mounted.

1. Prepare a flat work surface, free of any debris or items which may scratch the front surface of the TV.

2. Lay the TV face-down on the work surface with the bottom of the unit closest to you

#### WARNING: Use at least two people when transporting the TV.

3. Position the TV so that the bottom edge overhangs the table by about one inch.

4. On the bottom rim of the TV, there are four Pan Head Mounting Screws. Remove the Pan Head Mounting Screws, and set aside.

#### Important Note: Always replace mounting screws. Failure to do so will allow water to seep inside your TV. This can cause serious injury and can damage your TV.

5. Turn the Speaker Module with the speaker grill facing the floor, and align the Speaker Mounting Holes to the TV Mounting Holes. Replace Pan Head Mounting Screws through Speaker Mounting Holes and TV Mounting Holes. (Figure 2).

6. Screw securely (Figure 3).

7. Unscrew the three Thumb Screws, and pull the Connect Source Cover open (Figure 4).

8. Take the Speaker Cable from the speaker, making sure that the Speaker Cable Wire is placed over the right side of the Rubber Sealing Gasket (Figure 5), and plug it into the Speaker Connector.

10. When you close the Connect Source Cover, be sure that the Speaker Cable Wire is placed across the outside portion of the Rubber Sealing Gasket. The Speaker Cable Wire should not be placed across the bottom of the Rubber Sealing Gasket (Figure 6).





#### Speaker Module





Connect Sóurce Cover





Rubber Sealing Gasket Speaker Cable Figure 6



Speaker Cable Wire should not come out of this area

#### **Rear Panel Connections**

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

#### **Internal Connect Source**

The Internal Connect Source allows you to easily connect to the Audio, Video, S-Video, SVGA, HDMI, Audio Out, RF, RS232, and 12 VDC connectors, and the IR emitter window. The Internal Connect Source is inside the Cable Cover located on the back of the unit (Figure 1).

1. Unscrew the three gray 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 (Figure 2).

Note: There is an Indentation on the Rubber Sealing Gasket (on the bottom portion of the right and left sides). Make sure cable cords are not placed on the Indentation.

3. Close the cover.

4. Press firmly on the cover, and screw the Thumb Screws tightly (Figure 3).





Figure 3

#### **Rear View Connections**



#### The following descriptions are for connections from left to right.

1. SERVICE - This port is for factory service only.

2. HDMI 1 – Connects to devices that use HDMI cable, 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.

3. HDMI 2 - Same as HDMI 1

**4. 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.

5. 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 want sound out of VGA video source. Use the SOURCE button to select VGA on your MAIN SOURCE to view this connection.



13

14

15

IR Emitter placed over the IR Window

Cable end that will be attached to an

Rubber Sealing Gasket of the Internal

Connect Source. See proper Internal

Connect Source instructions on Page 9.

external control block is routed over the

#### The following descriptions are for connections from left to right.

6. COMPONENT 1 (lower) – These 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 YPbPr1 to view this connection.

7. COMPONENT 2 (upper) – These 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 YPbPr2 to view this connection.

8. 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. Please 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 AV1 (CVBS) on your MAIN SOURCE if you are using the yellow plug for video, use the SOURCE button to select AV1 (S-Video) on your MAIN SOURCE if you are using the S-Video connector to view this connection.

**9.** 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 round (SPDIF OUT) connector sends out either bit-stream or PCM digital sound signal to a home theater receiver with digital input.

10. ATSC/NTSC – This connection is for digital or analog cable without the cable box or over-theairwave 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 <u>http://www.antennaweb.org</u>. Use the SOURCE button to select TV on your MAIN SOURCE to view this connection.

11. AUDIO OUT -- Used to connect headphones, stereo receivers and amplified speakers.

12. SPEAKER MODULE CONNECTOR: This port is for the SunBriteTV Model 4610HD Detachable Speaker Module only.

#### Please Note:

This TV features a power saving function which will turn off the TV automatically after 15
minutes of idling on a connection with no signal. This feature is present on all connection.

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

**14. 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.)

15. 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.

Figure 15

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## **Connection Descriptions:**

Port Quality & Name	Port Picture	Cable Used & Resolution	Devices that use this Port
Best HDMI 1, 2, 3 (Digital HD Capable)		HDMI 1080p, 1080i, 720p, 480p, 480i	Blu-ray DVD Player, HD-DVD Player, HD Cable or HD Satellite Set- top Box, HDCP devices, PC
Best/Fair ATSC/NTSC (Digital HD Capable)	0	Coaxial RF 1080i, 720p, 480p, 480i	Antenna or Digital Cable with out the cable box
Best VGA (HD Capable)	0	VGA 1920x1080 or lower	PC or MAC with VGA connection
Better COMPONENT 1 & 2 (HD Capable)		YPBPR 1080p, 1080i, 720p, 480p, 480i	DVD Player, Video Game Console, High Definition Cable or Satellite Set-top Box
Good AV 1, 2 (Non-HD)		S-Video 480i only	Non High Definition Cable or Satellite Set-top Box, S- Video VCR
Fair AV 1 & 2 (Non-HD)	•	Composite 480i only	Non High Definition Cable or Satellite Set-top Box, VCR, Old Game Console, Camcorder

Port Quality, Type & Name	Port Picture	Cable Used & Resolution	Devices that use this Port
Good VGA STEREO INPUT (Audio)	0	3.5mm mini-jack	HDCP devices, PC, MAC
Best SPDIF OUT (Digital Audio)	۲	SPDIF	Receiver with Digital Surround Sound Decoding
Not Available	•	Service Port	This port is for SBTV technicians only.

## Cable Descriptions:

Cable Name	Cable Picture
HDMI	
Coaxial RF	
VGA	
YPBPR	Blue Green Red
S-Video	and and public
Composite	-Yellow
3.5 mm Mini-jack	Green
RCA Audio	White
Optical SPDIF	- Orange

#### Switching Sources for Ports:

Model 5510HD 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 Switch to
	HDMI or HDMI-DVI	HDMI 1 or HDMI 2
0	COAXIAL RF	TV (CABLE / AIR)
ð <b>()</b>	VGA	VGA
	YPBPR	YPBPR 1 or YPBPR 2
	S-VIDEO	AV 1 (S-VIDEO) or AV 2 (S-VIDEO)
<ul><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li></ul>	COMPOSITE	AV 1 (CBVS) or AV 2 (CVBS)

#### 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 your 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.

#### 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 your 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.

Note: Some VCRs must be turned on before output will have a signal to the TV.

#### 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, your 5510HD might lose picture or sound.

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

#### **CONNECTING TO AN ANTENNA--(Continued)**

#### Connecting to Cable or Antenna through VCR



- 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. The MODEL 5510HD'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.

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. Connect a HDMI cable to the HDMI port of your DVD player and the other end to the HDMI port off the back of your TV.

3. Turn on the TV and your DVD player.

4. Use the remote control's source button or the source button on the TV to switch to HDMI.

#### Please Note :

Refer to the DVD player's manual to make sure the DVD player is configured to output correctly to the TV.

Please Note :

1. Refer to the DVD player's manual to make sure the DVD player is configured to output correctly to the TV.

2. This TV does not decode Bit stream digital audio, so make sure the DVD is setup for PCM digital audio through HDMI.

3. If HDMI 1 is occupied, use HDMI 2 as your connection port.

2. With a Component Cable, connect the green connector to the DVD player and Component 1's green connector port on the TV.

3. Connect the blue color connector to your DVD player and Component 1's blue connector port on the TV.

4. Connect the red color connector to both your DVD player and Component 1's red connector port on the TV.

5. With an RCA Audio Cable, connect the white color connector to both your DVD player and Component 1's white connector port on the TV.

6. Connect the red color connector to both your DVD player and Component 1's red connector port on the TV.

7. Turn on the TV and your DVD player.

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 as your connection port and switch to source YPbPr2.

2. Refer to the DVD player's manual to make sure the DVD player is configured to output correctly to the TV.

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

#### **CONNECTING TO A DVD PLAYER (Continued)**



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 MODEL 5510HD.

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 MODEL 5510HD.

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 SunBriteTV's MODEL 5510HD supports SONY's universal remote code. 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 as 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.

3. SunBriteTV's MODEL 5510HD supports SONY's universal remote code. 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)

#### Connecting with Composite (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 MODEL 5510HD.

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 MODEL 5510HD.

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. SunBriteTV's MODEL 5510HD supports SONY's universal remote code. 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.

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 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. SunBriteTV's MODEL 5510HD supports SONY's universal remote code. 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 :

1. 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 :

1. 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

## 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 920 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 RCA Audio 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 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.

2. Refer to your PC manual for video output requirements of the video card.

3. 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 TO GAME CONSOLES



 Make sure the power of the TV and your Playstation 3 is turned off.
 Connect an HDMI cable to the HDMI output of your Playstation 3 and the other end to the HDMI port on the back of the TV.

3. Turn on the TV and Playstation 3.

4. Use the remote control source button or the source button on the power panel of the TV to switch to HDMI.

Please Note :

1. Refer to the Playstation 3's manual to make sure the PS3 is configured to output correctly to the TV. PS3 by default outputs to composite only. With newer firmware, PS3's HDMI should also output a signal. Please call PS3's tech support for further troubleshooting.

2. This TV does not decode Bit stream digital audio, therefore you'll need to make sure your DVD is set up for PCM digital audio through HDMI.

3. If HDMI 1 is already occupied, please use HDMI 2 as your connection port and switch source to HDMI 2.

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

#### **CONNECTING TO GAME CONSOLES (Continued)**



1. Make sure the power of the TV and your Xbox 360 is turned off.

2. Obtain the Xbox 360 Component Cable. Connect the green color connector to Component 1's green connector port on the back of the TV.

3. Connect the blue color connector to Component 1's blue connector port on the back of the TV.

4. Connect the red color connector to the Component 1 red connector port on the back of the TV.

5. Connect the white color connector to the Component 1 white connector port on the back of TV.

6. Connect the red color connector to the Component 1 red connector port on the back of the TV

7. Connect the gray head to the Xbox 360 and make sure the switch on the head is switched to HD.

8. Turn on the TV.

9. Use the remote control source button or the source button on the TV panel to switch to YPbPr1.

Please Note :

1. Make sure not to confuse the red connector for video with the red connector for audio, they are on separate rows on the Xbox 360's connector.

2. If component 1 is already occupied, use Component 2 as your connection port and switch to source YPbPr2.

3. Refer to the Xbox 360 manual to make sure the Xbox 360 is configured to output correctly to the TV.

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 Wii is turned off.

2. Obtain a yellow video cable. Connect the yellow video connector to both your Wii and the AV 1 yellow video connector port on the TV.

3. Obtain a RCA Audio Cable. Connect the white color connector to both the Wii and the AV 1 white video connector port on the TV.

4. Connect the red color connector to both your Wii and the AV 1 red video connector port on the TV.

5. Turn on the TV and the Wii.

6. Use the remote control source button or the source button on the TV panel to switch source to AV 1 (CVBS).

Please Note :

1. If AV 1 is already occupied, use AV 2 as your connection port and switch source to AV 2 (CVBS).

3. Refer to the Wii manual to make sure the Wii is configured to output correctly to the TV.

4. This TV will turn off automatically if there's no signal present 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

$\mathbf{)}$	Power	Turns TV on/off.
	Input	Press to change the input sources.
	Menu	Displays the On-Screen Display (OSD) menu. In OSD menu, press key to return to pre-phase.
	CH+/CH-	Adjusts channels. In OSD menu, both keys are used to navigate within the menu.
	Vol+/Vol-	Adjusts volume. In OSD menu, both keys are used to navigate within menu. Vol+ is used to select the highlighted options.

## **Front Panel**



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ON - Powers the TV On.

OFF - Powers the TV Off.

0~9 – Sets the channels.

Dash (-) – Inserts the dash for selecting digital channels directly.

**R** – Returns to the previous channel.

**FREEZE** – Freezes the TV picture. CC – Cycles between different closed captioning modes.

SLEEP – Sets the Sleep timer.

CC- Selects Closed Caption.

V+ – Functions the Volume Up and Menu Right.

V- – Functions the Volume Down and Menu Left.

MUTE – Mutes the TVs Audio.

MENU – Opens / Exits the TV menu.

CH+ – Functions the Channel Up and Menu Up.

CH- – Functions the Channel Down and Menu Down.

MTS – Selects stereo, mono, or second audio programming.

SRS - Sets Surround Sound.

DNR – Enables the Digital Noise Reduction on the TV.

ADD/Del - Adds or deletes the current channel.

**CH Lock** – Locks the current channel you are on, so that kids cannot view the locked channel unless unlocked by a password. You will also need to input a password when locking the channel.

 $\uparrow / \downarrow / \leftarrow / \rightarrow / -$  Allow you to navigate inside the OSD menu. They also function as CH+/- for digital channels in the tuner.

← (Enter) – Allows you to select functions inside the OSD menu, acts as

the Enter button for OSD menu for changing channels.

SOUND – Selects various preset sound settings.

EXIT – Allows you to quit from the OSD menu..

**PICTURE** – Selects various preset picture settings.

GUIDE – Opens the current digital channel information guide.

SOURCE - Cycles between different inputs of the TV.

INFO – Shows current channel information, display input and resolution.

SHIFT – Used with the 0-9 numeric pad to select inputs.

ASPECT – Changes the TV between different display modes.

**FAVORITE**  $\blacktriangle$  – Changes the channel up or down from you Favorite channel list.

**FAVORITE ADD / DEL** – Adds or deletes the current channel from the favorites channel list.

Picture In Picture/Picture On Picture (PIP and POP) Functions are not available on this TV.



This remote control follows Sony's TV remote codes with discrete on/off and input select. Direct TV code is 10,000

#### About the Water-Resistant Remote Control

The SunBriteTV<sup>®</sup> 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 Support Team. SunBriteTV will repair or replace the remote control at SunBriteTV's option.

If you have a warranty claim, contact the SunBriteTV Customer Support Team for further instructions.

866.357.8688 www.sunbritetv.com

## **On-Screen Display Controls**

#### **Via Remote Control**

Use the buttons below to adust the On Screen Display from the Remote Control.



This button exits the OSD entirely.

#### Via the TV's Side Panel Buttons

Use the buttons below to adust the On Screen Display from the TV's Side Panel Buttons.



MENU – This button opens the OSD.

 ${\rm CH}({\rm +})\,$  – This button changes the channel to a higher number and also functions as up direction in the OSD.

 $\mbox{CH(-)}~-\mbox{This}$  button changes the channel to a lower number and also functions as down direction in the OSD.

 $\ensuremath{\text{VOL}(\textbf{+})}\xspace$  – This button decreases the volume and functions as left direction in the OSD.

 $\ensuremath{\text{VOL}}(\ensuremath{\text{-}})$  – This button decreases the volume and functions as right direction in the OSD.

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Picture	Audio	Time	Setup	Lock	Channel
Picture:	Audio:	Time:	Setup:	Lock:	Channel:
This function	This menu	This menu	This menu	This menu	This menu
changes	manages	manages the	manages	manages	manages Channel
the picture	the audio	time functions	Language,	parental	functions such
settings for all	settings such	such as Sleep	Transparency,	controls.	as scanning
ports, such as	as Bass, Treble,	Timer, Time	Zoom Mode,		channels, editing
tint, contrast,	Balance, AVC,	Zone, Daylight	Noise Reduction,		channels,
sharpness and	SPDIF, Audio	Saving Time, and	Closed Caption,		checking signal
dynamic noise	Language, etc.	Clock.	etc.		strength, etc.
reduction.					

## Adjusting On-Screen Displays – Picture Menu

#### Picture Menu

From the PICTURE menu you can adjust PICTURE MODE, CONTRAST, BRIGHTNESS, COLOR, TINT SHARPRESS, COLOR MODE.

1. Press  $\mathbf{\nabla} \mathbf{A}$  buttons to move the cursor to the item to be selected.

2. Press  $\blacktriangleleft$  buttons to make the desired adjustments.

3. When you are satisfied with your adjustments, press MENU or EXIT to exit the main menu.

#### **Picture Menu**



#### Picture Mode

Press ▼▲ buttons to Picture Mode, then use ◀ ► to adjust the Picture Mode such as Personal/Standard/ Dynamic/Soft.

#### Contrast

Press  $\checkmark \blacktriangle$  buttons to Contrast, then use  $\checkmark \triangleright$  to adjust the contrast of the picture.

#### **Brightness**

Press  $\checkmark \blacktriangle$  buttons to Brightness, and use  $\triangleleft \triangleright$  to adjust the brightness of the picture.

#### Color

Press  $\checkmark \blacktriangle$  button to Color, then use  $\triangleleft \triangleright$  to adjust the color saturation.

#### Tint

Press  $\blacksquare$  button to Tint, then use  $\blacksquare$  to adjust the tint of picture.

This function is available in the NTSC, which is one of the color systems.

#### Sharpness

Press  $\checkmark \triangle$  buttons to Sharpness, then use  $\triangleleft \triangleright$  to adjust the sharpness level of picture.

#### Color mode

Press ▼▲ buttons to Color Mode, then use ◀ ► to adjust the color mode of picture, such as Cool, Normal and Warm

#### Audio Menu

1. Press  $\blacksquare$  buttons to move the cursor to the item to be selected.

2. Press  $\blacktriangleleft$  buttons to make the desired adjustments.

3. When you are satisfied with your adjustments, press MENU or EXIT to exit the main menu.

#### Sound Mode

Picture	Time	Setup	Lock	Channel
Sound Mode	<	Personal		A. D. Star
Bass	Contraction of the second		A STREET	- 51
Treble			Classification of the second	- 50
Balance	A the second			- 50
Surround	<	Off	>	
AVC	<	Off	>	1 5,680
SPDIF	<	RAW	>	
Audio Language	<	English	>	- AL 17
CC Select		ve		t

#### Sound Mode

Allows you to you choose your sound preferences. Press ▼▲ buttons to Sound Mode, then use ◀ ► to adjust the Sound Mode such as Personal/Standard/ Music/Movie.

#### Bass

Press  $\checkmark \triangle$  buttons and then use  $\triangleleft \triangleright$  button to increase or decrease the level of the Bass response.

#### Treble

Press  $\checkmark \blacktriangle$  buttons and then use  $\triangleleft \triangleright$  buttons to increase or decrease the level of the Treble sounds.

#### Balance

Pressd ▼▲ buttons and then use ◀ ► buttons to adjust the audio output level between Left and Right Speakers.

#### Surround

Surround Sound is not supported on this model.

#### AVC

Press  $\checkmark \blacktriangle$  buttons and then use  $\checkmark \triangleright$  buttons to select AVC On or Off.

#### SPDIF

Press  $\checkmark \blacktriangle$  buttons and then use  $\triangleleft \triangleright$  buttons to select SPDIF Type, such as PCM and RAM.

#### Audio Language

Press  $\mathbf{\nabla} \mathbf{A}$  buttons to select one of the audio languages such as English/French/Spanish.

The language code must be programmed for this option to be available. If there is no selection it has not been programmed for this model.

Note: SPDIF Type and Audio Language are available only in DTV.

#### Time Menu -

1. Press  $\mathbf{\nabla} \mathbf{A}$  buttons to move the cursor to the item to be selected.

2. Press buttons to make the desired adjustments.

3. When you are satisfied with your adjustments, press MENU or EXIT to exit the main menu.

#### Time Menu



#### **Sleep Timer**

Press ▼▲ buttons to Sleep Timer, then use ◀ ► buttons to select the sleep timer. The options are: Off; 5Min; 10Min; 15Min; 30Min; 45Min; 60Min; 90Min; 120Min; 180Min; 240Min.

#### Time Zone

Press ▼▲ buttons to Time Zone, then use ◀ ► buttons to select the correct time zone. The options are: Alaska; Hawaii; Pacific; Mountain; Central; Eastern.

#### **Daylight Saving Time**

Press  $\checkmark \triangle$  buttons and then use  $\triangleleft \triangleright$  buttons to select Daylight Saving Time ON or OFF. When Daylight Saving Time is ON, the clocks are set one hour ahead of local standard time.

#### Clock

The time is decoded from the digital signal and displayed (such as DTV,HDMI) This item is available only in English.

#### Setup Menu

1. Press  $\mathbf{\nabla} \mathbf{A}$  buttons to move the cursor to the item to be selected.

2. Press < > buttons to make the desired adjustments.

3. When you are satisfied with your adjustments, press MENU or EXIT to exit the main menu.

#### Setup Menu



#### Menu language

Press ▼▲ buttons to Menu Language, then use 
buttons to select menu language, the options are English / French / Spanish.

#### Transparency

Press ▼▲ buttons to Transparency, then use ◀ ► buttons to select Transparency ON or OFF.

#### Zoom Mode

Press ▼▲ buttons to Zoom Mode, then use ◀ ► buttons to select current zoom mode, the options are Normal / Wide / Zoom / Cinema.

#### **Noise Reduction**

Press ▼▲ buttons to Noise Reduction, then use ◀ ► buttons to select current noise reduction level, the options are off / Weak / Middle / Strong.

#### Advanced

Press ▼▲ buttons to Advanced, then press ▶ button to enter the Advanced Sub Menu shown below Note: This item is only available in VGA source input.



#### **Advanced Sub Menu**

#### H-Pos

Press  $\checkmark \triangle$  buttons and then use  $\triangleleft \triangleright$  adjust the horizontal position of the picture (this function is to adjust the picture to Left/Right as to your preference).

#### V-Pos

Press  $\blacksquare$  buttons and then use  $\triangleleft$  badjust the vertical position of the picture (to adjust the picture to Left/Right as to your preference).

#### Clock

Press ♥▲ buttons and then use ◀ ► to adjust the clock of the picture. (This function is to minimize any vertical bars or stripes visible on the background screen. The horizontal screen size will also change.

#### Phase

Press  $\bigvee \blacktriangle$  buttons and then use  $\triangleleft \triangleright$  to adjust the phase of the picture. (This function allows you to remove any horizontal noise and to sharpen the image of characters).

#### Auto

Press ▼▲ buttons and then press OK button to perform the Auto Adjust function that automatically adjusts the available options for the best viewing configuration.

#### **Closed Caption**

From the Setup Menu, press ▼▲ buttons to Closed Caption, then press ▶ button to enter the Closed Caption submenu list shown below.



#### **OptionSub-Menu**

Picture	Time	Setup	ock
Mode	4	Default	2
Font Style	*	Default	>
Font Size	*	Default	>
Font Edge Style	<	Default	*
Font Edge Color	*	Default	>
FG Color	<	Default	>
BG Color	*	Default	>
FG Opacity	<	Default	>
BG Opacity	<	Default	>
00 Select	CO Mo	ve 🔍	ENU) Exit

#### **Basic Selection**

Press ▼▲ buttons and then use ◀ ► buttons to select current zoom mode, the options are CC1 / CC2 / CC3 / CC4 / TEXT1 / TEXT2 / TEXT3 / TEXT4.

#### **Advanced selection**

Press ▼▲ buttons and then use ◀ ▶ buttons to select current zoom mode, the options are Service 1 / Service 2 / Service 3 / Service 4 / Service 5 / Service 6.

#### Option

Press the  $\blacktriangleright$  button to enter the submenu list shown below.

**Mode:** Press  $\bigvee \blacktriangle$  keys to select either Default and Custom. If you set Automatic, the other choices are disabled and can't be adjusted.

**Font Style:** press ◀ ► keys to select one of the Defaults and from Font0 to Font7.

Font Size: press ◀ ► to select one of Default / Normal / Large / Small.

Font Edge Style: press ◀ ► keys to select one of Default / None / Raised / Depressed / Uniform / Left Shadow / Right Shadow.

Font Edge Color: press ◀ ► keys to select one of Default / Black / White / Red / Green / Blue / Yellow / Magenta / Cyan.

**FG Color:** press ◀ ► keys to select one of Default / White / Black / Red / Green / Blue / Yellow / Magenta / Cyan.

**BG Color:** press ◀ ► keys to select one of Default / Black / White / Red / Green / Blue / Yellow / Magenta / Cyan.

**FG Opacity:** press ◀ ► to select one of Default / Solid / Flashing / Translucent / Transparent.

**BG Opacity:** press ◀ ► to select one of Default / Solid / Flashing / Translucent /Transparent.



#### XVS (Dynamic Luminance Control)

From the Setup Menu, press  $\bigvee \triangle$  buttons to XVS, to enter the XVS menu. Use the  $\triangleleft \triangleright$  buttons to select ON or OFF.

#### Lock Menu



Press ▼▲ buttons to move the cursor to the Enter Password selection.

Press "Enter Password" to enter the password. (The default password is 0000.)

To change the Password, press the ► button to enter the Lock Menu submenu

#### Lock Menu Sub-Menu



#### **Change password**

Press ► button to enter the submenu. Once there, you can enter the new password and confirm it. The password will be changed.

Note: If you change the password, write down the new password, and keep it in a safe place

#### System Lock

Press ▼▲ buttons and then use ◀ ► buttons to select system lock ON or OFF. When system lock is OFF, the item choices are: US / Canada / RRT setting / Reset RRT will be grayed

#### US

Press the button to enter the submenu list to set the US rating functions. (US Menu is on the next page.)

## US Menu



#### TV Menu

Picture	Audio	Tim	e	Setup	Lock	Channel
-		1	V RATI	NG		
	ALL	FV	V	S	L	D
TV-Y						
TV-Y7						
TV-G			1			
TV-PG						
TV-14						
TV-MA						
: Block		Press ENTE	R to Lo	ck or Unio	ck	

From the US Menu, press ▼▲ buttons to the TV function. Press ▶ button to enter the submenu shown below.

> TV-Y: For all children TV-Y7: For children above 7 TV-G: For anyone TV-PG: Children can watch with guardian TV-14: Need parent guide TV-MA: Only for adult ALL: Select all functions above FV: Fantasy Violence L: Language (abusive, sexual) S: Sexual V: Violence D: Dialog (sexual)

#### Us Menu



#### MPAA

From the Us Menu, press ▼▲buttons and use ◀ ► buttons to select one of N/A / G / PG / PG-13 / R / NC-17 / X.

#### Lock Menu Sub-Menu



#### Canada

Press the ► button to enter the submenu for the Canadian rating functions.

#### Canada Menu

Picture	Audio	Time	Setup	Lock	Channel
Canada Eng	glish	4	E		>
Canada Fre	ench	*	E		
CO	Select		ove	MENU EX	it

#### Canada English

Press the  $\triangleleft$  button to select one of E / C / C8+ / G / PG / 14+ / 18+.

#### **Canada French**

Press the ◀ ► button to select one of E / G / 8ans+ / 13ans+ / 16ans+ / 18ans+.

#### Channel Menu —

1. Press  $\mathbf{\nabla} \mathbf{A}$  buttons to move the cursor to the item to be selected.

2. Press  $\blacktriangleleft$  buttons to make the desired adjustments.

3. When you are satisfied with your adjustments, press MENU or EXIT to exit the main menu.



#### **Channel Menu**

The CHANNEL MENU is used in TV source, only. You can complete channel search and settings here

#### Air/Cable

Press ◀ ► buttons to select Air or Cable.

#### Auto Scan

Press the button to enter the submenu list below

#### Auto Scan





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## Cable system

Press the  $\blacktriangleleft$  button to select the cable system.

#### Start to Scan

Press the button to start auto scan.

#### Favorite



## Favorite

From the Channel Menu, press the  $\checkmark \blacktriangle$  buttons to select Favorite. Press the  $\triangleright$  button to enter the submenu shown at left.

Press  $\mathbf{\nabla} \mathbf{A}$  keys to select channels, and press OK to add current channel to Favorite Channel Table.

Follow the same directions to delete a channel from the Favorite Channel Table.

#### Show/Hide Menu



#### Show/Hide

From the Channel Menu, press the  $\checkmark \blacktriangle$  buttons to select Show/Hide. Press the  $\triangleright$  button to enter the submenu (shown left).

Press ▼▲ keys to your desired channel. Press OK to show or hide the specified channel.

If the channel is Hidden, user will be unable to see the channel by pressing CH+ or CH-. They can select the channel by pressing the channel number directly.

### Channel Menu



From the Channel Menu, press the  $\mathbf{\nabla} \mathbf{A}$  buttons to select the following functions:

#### **Channel No.**

Press the  $\blacktriangleleft$  button to select the channel No.

#### **Channel Label**

Press the  $\blacktriangleright$  button to enter the submenu, where you can edit the channel label.

#### **DTV Signal**

This item shows current DTV signal strength.

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

Problems	Solutions
	Connect power cord correctly.
1.	Turn on power.
NO	Connect video cable correctly.
PICTURE	Select the input signal source with proper cable connection with
	the source button.
ABNORMAL	Match the colors on the cables to the ports off the back of the
COLORS	television. I.E. red cable to red colored port.
PICTURE IS	Adjust your contrast, brightness and lamp settings from the OSD
TOO DARK	Menu.
AUDIO	Make sure you have connected both your video and audio cables.
PICTURE	The TV's tuner signal must not be lower than 65 dB.
PICTURE ONLY	Make sure the audio cable is connected.
NO AUDIO	Readjust your volume via the remote control.
	The TV's tuner signal must not be lower than 65 dB.
REMOTE CONTROL DOES NOT	Turn off the TV, unplug it from the socket. Remove the batteries out of the remote for 30 minutes. Press the remote buttons and the power button randomly for a good 2 seconds, and then reinstall the batteries. Try the remote to see if it works.
WORK	The TV's remote sensor is also housed in the same place as the power indicator light. Please make sure there is line of sight from the remote control's front 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 dB. Change the direction of your antenna and rescan your channels. If you have cable call up your cable company and ask about signal strength of your local cable.
NO COLOR	Please adjust your picture setup and make sure the saturation and the RGB are not turned all the way down.
	The TV's tuner signal must not be lower than 65 dB. Check your signal.
WEAK SIGNAL	The TV's tuner signal must not be lower than 65 dB. Change
OR NO	the direction of your antenna and rescan your channels. If
PROGRAM	you have cable call up your cable company and ask about
SYMBOL ON	signal strength of your local cable.
TV CHANNELS	Check your auto lock function's settings inside the OSD Vou
ARE BLOCKED	may have locked up some channels but forgot about them
UNIVERSAL	This TV follows SONY's universal remote code. Please check
REMOTE CODE	your hand book for SONY's codes then apply them.
THE TV TURNS	This TV is a High Definition liquid crystal display panel TV. It
ON OR OFF	requires a few more seconds than normal TVs to power up
SLOWLY AND THE SCREEN SHOWS UP SLOWLY	and show the picture.
NO SOUND ON 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.

Problems	Solutions				
HDCP VIDEO	Reboot your HDCP video device but turning them off and				
SAYS NO HDCP	unplugging the power cord. Wat up to 8 minutes to plug the				
SUPPORT	power back in to see if it works or not.				
	Make sure you have a 3.5 mm mini-jack cable connected from				
HDCP VIDEO	your HDCP video device's sound output to the TV's VGA				
HAS NO AUDIO	STEREO INPUT. If your HDCP video device uses RCA				
	AUDIO jacks, you'll need to obtain a RCA audio converted				
	into 3.5 mm mini-jack cable.				
CANNOT GET	Although the screen's max resolution is 1366x768, no video				
1366X768 ON	card maker can support such resolution. The industry				
PC VGA	standard for similar resolution support is 1360x768. Please				
	use that as you resolution.				
PICTURE IS	This might be from interference from large electrical				
DISTORTED OR	appliances, cars, motorcycles, or fluorescent lights. If the TV				
HAS ABNORMAL	is close to the wall, try moving the TV to another room in your				
SOUND	house to see if the problem still occurs.				
	If you're using HDMI or a TV digital channel make sure you				
	use the ASPECT button to switch to 16:9 WIDE format. If you				
	are using VGA, use the AUTO ADJUST function to adjust to				
PICTURE DOES	the screen. Please Note : If you are using 1360x768 or				
NOT COVER	1280x768 you must also use the PREF. RESOLUTION				
THE ENTIRE	function to adjust to the screen as well. If you are using				
SCREEN	regular analog TV, AV1, or component in 480i resolution, use				
	the ASPECT button to switch to 4:3 WIDE in order to fill up				
	the screen. Please Note : This note this feature will distort the				
	picture.				
SWITCHING A	Different channels and inputs will sometimes have this effect				
CHANNEL OR	because the channel signal s own volume is already loud.				
SUURCE	There is no way remove this completely. The TV has an				
CHANGES THE	AUTO VOLUME LEVEL function that can combat this type of				
	When your I CD HDTV/e seech time is higher than the disite!				
NOISE OR	when your LCD HDTV's resolution is higher than the digital				
TDAGL DIVELS	match your TV's resolution. He signal is up-converted to				
ON THE	type of effect				
SCREEN	type of effect.				
I CANNOT FIND	The buttons are represented by the AT <> buttons located				
THE VOLUME	on the remote control. A V changes the channels and				
AND CHANNEL	changes the volume.				
CHANGING					
BUTTONS					
I CANNOT FIND	The enter butten has the symbol. I this located in the sector				
ENTER BUTTON	If the enter button has the symbol a. It is located in the center				
	or the AV <> buttons.				

## Important Information About the Anti-Reflective Window on your SunBriteTV Outdoor Television

The anti-reflective window on your all-weather TV is designed to dramatically reduce reflection and improve the contrast of the image on your TV. In order to preserve the anti-reflective properties of the window, it is imperative that you follow the maintenance guidelines below:

## 1. Clean the window by using the following directions:

To clean the SunBriteTV window, use glass cleaner and a lint-free or micro-fiber cloth. Spray the solution on the cloth and then apply to the window. DO NOT use acrylic cleaners.

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

The fitted dust cover is constructed with weatherproof 4-ply polypropylene UV protection fabric that protects the window from direct and indirect sunlight, and keeps wind-blown objects from scratching the surface of the window.

To order the Dust Cover, contact your Authorized SunBriteTV dealer or SunBriteTV's Customer Service at 866.357.8688.

#### **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**

The Fiber Filter is located on the back of the unit, inside the Intake Vent at the top of the TV (Figure 1). In areas where dust or salt air is prevalent, it is recommended that the Fiber Filter be cleaned regularly.

1. Release the Fiber Filter by pulling it out from the corner of the Intake Vent (Figure 2). Notice how the Fiber Filter fits in the upper and lower channels, and tightly against the angled corners (Figure 3).

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.

3. Put the Fiber Filter back up into the Intake Vent pushing the filter first into the upper channel, then fit it into the lower channel. Make sure filter fits tightly against angled corners at each end of the Intake Vent. (Figure 4).



#### Specifications for SunBriteTV Model 5510HD

#### Specifications

LCD Screen	55-inch diagonal TFT Active Matrix		
Resolution	1920 x 1080 full-HD 1080p, 120 Hz Frame Rate		
Aspect Ratio	16:9		
Contrast Ratio	5000:1		
Viewing Angle	176°		
Response Time	6.5 milliseconds		
TV formats	1080p, 1080i, 720p, 480p, 480i		
Input Connectors:			
RF	Antenna/CATV (ATSC/QAM/NTSC) x1		
HDMI	HDMI™ Input x2		
Video Component	YPbPr plus Stereo Audio x2		
РС	15-pin D-sub VGA plus Stereo Audio		
Control Set	RS232 Serial, Discrete IR Control, Concealed IR Window		
Audio Out	SPDIF, Analog 1/8"stereo mini jack		
Speakers	10-watt x 2 channels, water-resistant detachable speaker module		
Exterior	Powder-coated aluminum		
Input Power	100-240 VAC, 50-60 Hz 4.0 A Max		
Operating Temp.	-24° to 122° F. (-31° to 50° C.) *		
Non-op. Temp. (Off-mode with power applied)	-24° to 140° F. (-31° to 60° C.) The non-operating temperature feature requires power to be applied		
Accessories Included	Water-resistant remote control		
TV Dimensions	52.46" W x 31.43 " H (33.13" H with speakers) x 7.80" D		
Weight	90.0 lbs; 95 lbs with speakers		
Warranty	One-year, in-factory, parts and labor		



Dimensions with detachable speaker module. All measurements are in inches

Specifications are subject to change.

\*Temperature range is for operation in shaded location.

PC Timing Codes

1920\*1080@60Hz (NATIVE) 1360\*768@60Hz 1280\*768@60Hz 1024\*768@60, 70, 75Hz 800\*600@60, 75Hz 640\*480@60, 75Hz

## 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.

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

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

#### 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, Model 5510HD 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<sup>™</sup> 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. (Model 5510HD LCD TV 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 14 days from the day the customer receives the TV.

For questions, please call our toll-free service number at 866.357.8688.

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	(ESCIB	1B 42	[B]	(PWROEF)
Tunes lenut	(500)0	10.42	[6]	[TN 4]
Tuner mput	(500)0	10 40		
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)	18.49		[YnbPr2]
	(ESO)	10.40	[]]	
HDMI Input 1	[ESC]J	1B 4A	[1]	[חויוטיוז]
VGA Input	[ESC]K	1B 4B	[K]	[VGA]
HDMI Input 2	[ESC]L	1B 4C	[L]	[HDMI2]
Mute	[ESC]X	18 58	[X]	[MUTE]
Vol Up	[ESC]Y	18 59	[Y]	[VOL+]
Voi Down	IESCIZ	18.5A	[7]	[//QL_]
Oberralilia	Troch	10.00	0.0	(000)
Channel Up	feacty	18.56		[CH+]
Channel Down	[ESC]W	18 57	[W]	[CH-]
1	[ESC]1	1B 31	[1]	na
	[ESC]2	1B 32	[2]	na
3	[ESC]3	18 33	[3]	na
4	IESCI4	18.34	[4]	na
	100010	10.25	10	
	Teacla	16.35		na
6	[ESC]6	18 36	[6]	na
7	[ESC]7	18 37	[7]	na
8	[ESC]8	1B 38	[8]	na
9	[ESC]9	1B 39	[9]	na
0	IESC10	18.30	101	na
	(ESC)	18 20	61	0a
Channel Balance David	(EOGF	10 10		
Gnamer Return(Previous Channel)	[ESC]	1B 72	19	,na,
Source Toggle	[ESC]b	18 62	[SRC]	na
Aspect	[ESC]a	18 61	[ASPECT]	na
Enter	[ESC]@	18 65	[ENTER]	na
Info	(ESC)	18 69	(INFO)	na
CC	[ESCIn	18.63	ICC1	na
Disco	(690)-	10.71	10( 660)	119
Sieep	[EOU]Z	IQ /A		10
Picture	[ESC]p	1B 70		na
Sound	[ESC]s	1B 73	[SND]	ทส
(4610 only) PIP On	(ESC)P	1B 50	[PIP]	na
(4610 only) PIP Source	(ESC)Q	18 51	(PSC)	na
(4610 only) PIP Swap Video	IESCIR	1B 52	[PSV]	na
(AR40 set a DID Surge 4 1	IEDOIO	10.20		
(4010 only) PIP Swap Audio	IESUS	18 53	[FOM]	10
(4610 only) PIP Size	[ESC]T	1B 54	[PSZ]	na

#### RS 232 Control Codes for SunBriteTV Models SB-3220HD and SB-4610HD

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