

# 5.1 AV Switch Box

## CS 5.1 Surround Sound Converter



## User's Manual

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Release Revision 0.20



### ***Welcome!***

Thank you for purchasing the 5.1 AV Switch Box!

This product is designed to provide years of service allowing you to select between a wide variety of audio and video components. This remarkable Switch Box has been engineered to provide you with many years of the home theater enjoyment.

Please take a few minutes to read this manual thoroughly before you connect and operate the 5.1 AV Switch Box.

### ***CAUTION***

You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment.

Do not place the unit near heat sources, rain, moisture or mechanical shock, and ensure that there is nothing to interfere with proper ventilation/airflow.

**TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THE UNIT TO RAIN OR MOISTURE!**



The “lightening bolt” symbol is intended to alert the user to the presence of un-insulated “dangerous voltage” with the product’s enclosure that may be of electric shock to persons.





The “exclamation mark” symbol is intended to alert the user to the presence of important operating and maintenance instructions in the literature accompanying the appliance.

### ***Features:***

The 5.1 AV Switch Box as a multiple audio / video source selector servers to your television. It allows you to quickly and easily select which audio / video source you wish to use, without disconnecting and reconnecting your components.

Once connected, you can switch between components using buttons on the front panel of the Switch Box or by using the Infrared Remote Control that came with your Switch Box unit.

- Convert stereo audio to 6 speakers surround
- Independent AV source control
- Composite Video In/Out only
- 5.1 channel pre-amp outputs
- Source Direct switch bypasses, tone controls and bass management for purest sound quality
- Switched AC outlet built-in

### ***Easy of use***

Switch between components using the front panel buttons or your infrared remote control.

### ***Expansion***

Connect up to 5 components such as Satellite Receivers, DVD players, Laser Disc players, VCRs, Camcorders, Video Games etc. and switch between them in any order. It works with any component having composite connectors. No adapters are required.



### ***Quality***

Internal amplification minimizes signal loss and balances color for the best possible picture.

### ***Circle Surround***

Circle Surround® ("CS") is a powerful and versatile multichannel decoder capable of delivering up to 5.1 channels of audio from any stereo, matrix encoded or Circle Surround encoded material. The first in the Circle Surround family of technologies, CS incorporates superior steering of surround information and remarkable center channel placement, while maintaining full-range bandwidth in each speaker.

With Circle Surround, listeners may now enjoy their 5.1 home entertainment systems with any stereo source material including music on CDs, television programming, cable broadcasts and movies on VHS. It also decodes any matrix encoded material, providing better performance than older systems such as Dolby Pro Logic®. Optimal results can be achieved with playback of Circle Surround encoded source material.

### ***Circle Surround Features:***

**Backwards Compatibility:** Circle Surround delivers up to a 5.1 channel home theater experience from many formats, including stereo, Dolby Surround® and down-mixed Dolby Digital® & DTS®. It provides the most accurate decoding of surround material with true center channel dialog isolation and outstanding separation among the rear channels.

**Smoother Steering:** CS is designed to immerse listeners in a realistic surround environment. The exceptional steering and channel separation of CS establishes new performance benchmarks for matrix surround decoding. Using patented dual-band technology, CS provides smoother steering between left and right surround channels and from front to rear



surround channels compared to alternative technologies. The thrill of this experience can rival discrete 5.1 surround sound formats.

**Full bandwidth:** CS playback provides full bandwidth in each channel for outstanding audio quality, which can be experienced from any source via a simple stereo connector.

**Flexibility:** CS decoding can be easily implemented for a wide variety of product applications including computers, laptops, game consoles, TVs, DVD players or Internet and web devices. Since the 5.1 CS encoded signal can be carried over standard stereo cables or broadcast methods, listeners in all types of environments can now experience breathtaking surround sound from the widest possible variety of sources.

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### ***Specification***

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<b>Physical Dimension:</b>	Width = 8 ¼", Height = 2 ¼", Depth = 6" (Box Unit Only)
<b>Audio Inputs</b>	Reference Level: -10dBV (47Ω) Maximum Level: + 6dBV (1 kHz, 1% distortion)
<b>Video Inputs</b>	■ Composite signal Vp-p=1.0V (75Ω)
<b>Input Video Source:</b>	■ Video Camcorder ■ VCR, TV, Satellite Tuner ■ CD Recorder ■ Laser Disc Player ■ DVD/VCD/CD/MP Players ■ Video Game Console
<b>Input Audio Source:</b>	■ 6 CH Audio Output devices



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	■ 2 CH Stereo Audio Output device
<b>Video Output:</b>	Composite Signal: $V_{p-p}=1.0V$ (75 $\Omega$ ) - Output: <ul style="list-style-type: none"><li>• TVset, Video Projector</li></ul>
<b>Audio Output:</b>	CS 5.1 (6 CH) output
<b>Audio S/N ratio:</b>	90 dB or more
<b>Audio Frequency response:</b>	20 Hz to 20 kHz
<b>Distortion:</b>	Less than 0.3% (with reference input, 1 kHz)
<b>Power requirement:</b>	AC 120V~, 60 Hz (Original Design ) AC 220~, 50 Hz (Optional Design)
<b>Power consumption:</b>	5 Watts (3 Watts in standby mode)

### **Check List:**

- Switch Box Unit (1)
- Infrared remote Control (1)
- User's Manual (Printed)
- Register Card (Printed)

All cables will connect to this unit are sold separately. Your Package may also contain other printed material with special offers for direct purchase of related products as well.

### **Box Unit [F]**

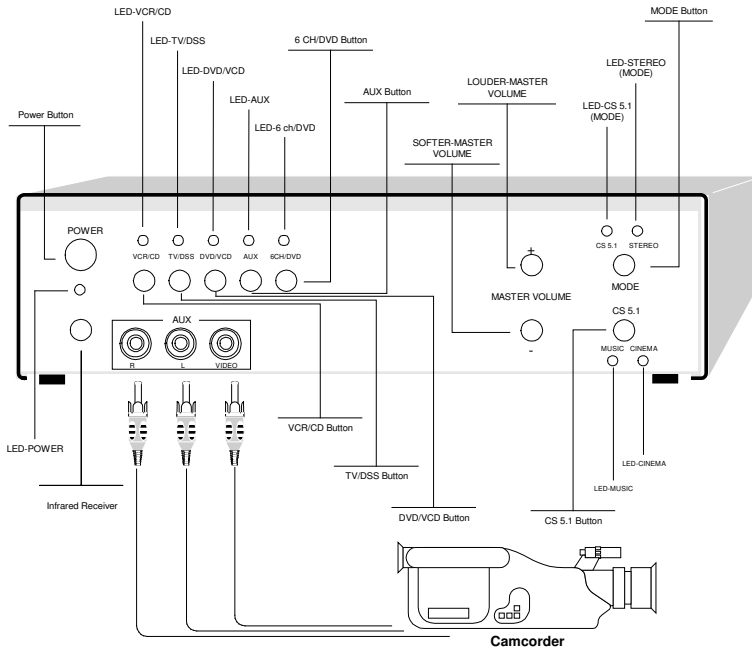
Front Side

The touch button panel on the front side of AV5.1 Switch Box provides quick access to commonly used functions.



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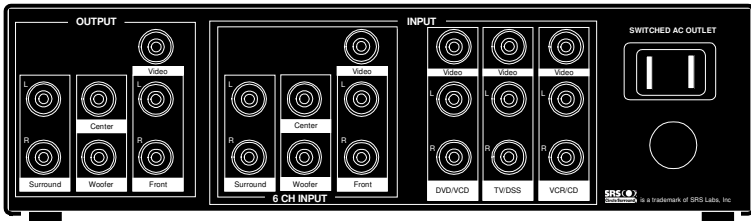


If your remote control doesn't function at all, then these buttons on Box front panel will act as a keypad for you.

### Box Unit [R]

Rear Side

While connections on the rear panel of the AV5.1 Switch Box are labeled for specific component names for easy reference, you can substitute a mentioned device in its place.



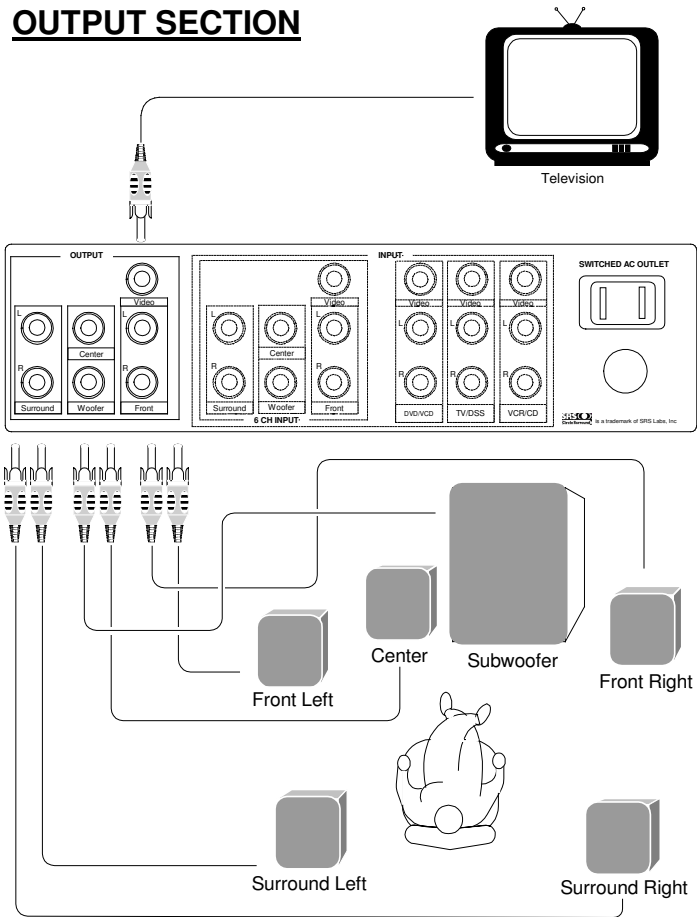
Rear Side Diagram.



**Output Connection**

Box Unit

**OUTPUT SECTION**



This illustration is for information purpose only. This product has a pre-amplifier only. It requires a 5.1 power amplifier to drive the speakers..

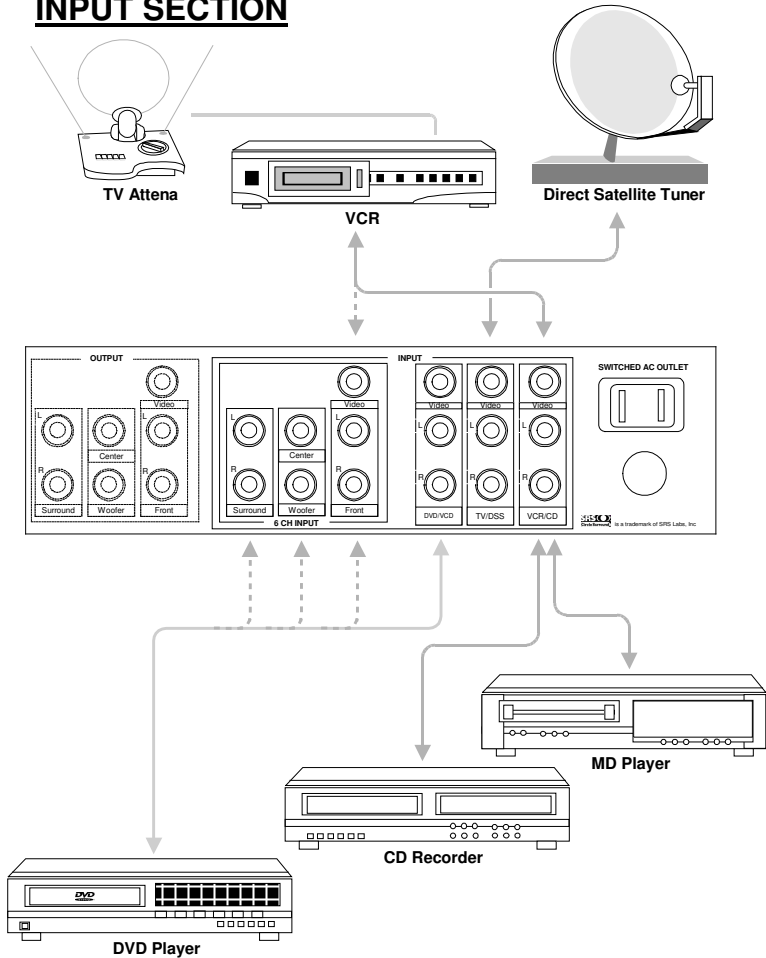




**Input Connections** Box Unit

Certainly, you can plug many of AV sources into the Switch Box to convert two channels stereo audio up to multiple channels.

**INPUT SECTION**



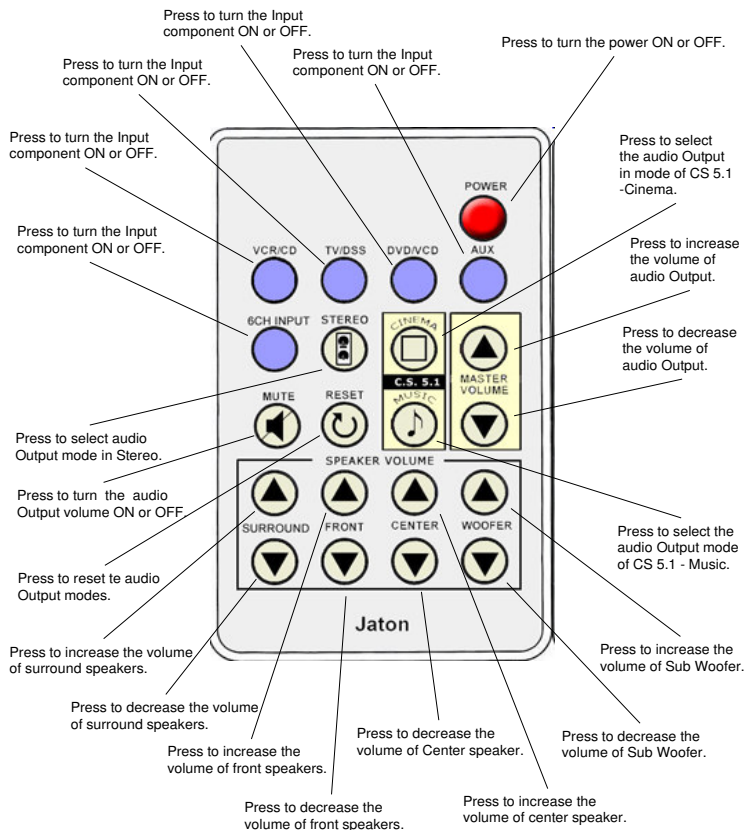


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### Remote control

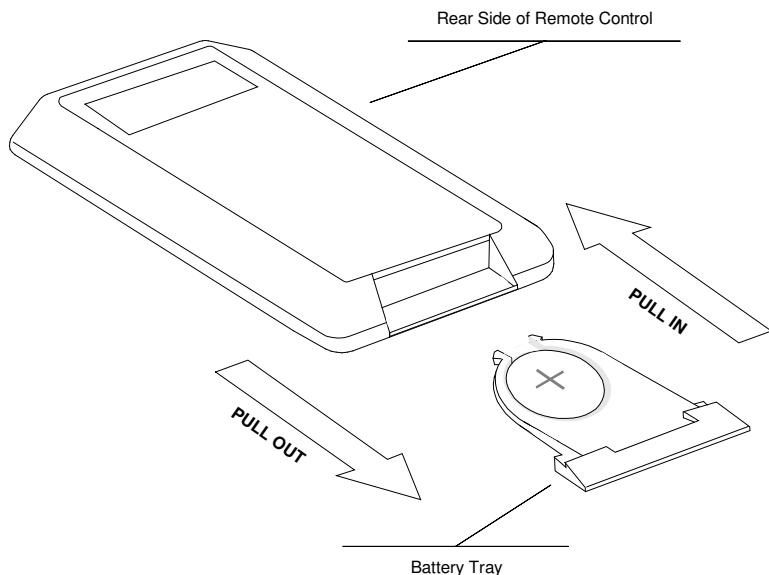
### How to use





### Battery Installation

### Replacement Instruction



#### Battery Specification:

Lithium Battery - CR2025 -3V

#### Battery Installation:

Pull out the Battery Tray from the rear side of the Switch Box Unit, place new Lithium Battery with face up as shown above (positive “+” polarity is on top of the battery). Then pull in the Battery Tray back into the Switch Box Unit. Misuse of battery could result in damage to the circuit of your Infrared Remote Control.



### ***TROUBLESHOOTING***

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1. Check to see that the AC power plug is firmly connected to the Switch Box and that the power light is on.
2. Check to see that all video and audio cables are firmly inserted into the proper connectors.
3. Make sure there is a valid signal coming from the device being set up. For example, if a VCR is connected, a tape should be playing.
4. Make sure that you have selected the channel corresponding to the device. For example, check to see that your VCR is connected to the VCR input of the Switch Box and that the VCR button on the Switch Box is selected.

When selecting the device to be preset, push the device button firmly and make sure the indicator light in the center of the device button is lit.

5. Plug the output cable from the device directly into the television to check the cable.
6. It may help to isolate one channel of Switch Box at a time and test each individually. All channels are the same and may be used interchangeably.
7. Make sure the infrared receiver windows on the Switch Box is not blocked and the Switch Box is located so it is in line of sight with your remote.
8. If problems are encountered when proceed to the Switch Box, such as the device indicator lights not turning off, fresh battery may be required in the remote.
9. If the Switch Box stops responding to your infrared remote control signals, power to the Switch Box may have been interrupted. Check your VCR to see if the display is flashing for confirmation of a power loss. If this has occurred, the Switch Box will need to be re-programmed (Dealer service required).
10. The Switch Box only responds to infrared signals. Radio frequency-controlled remotes whose signals travel through walls and floors cannot control the Switch Box.


Should any problem persist, consult your nearest JATON dealer.



For technical support, email to [cesupport@jaton.com](mailto:cesupport@jaton.com) or call Customer Service at (408) 934-9369

### ***Trademark Acknowledgment.***

All trademarks in this document are registered. All rights reserved.

**CS5.1** and  symbol are trademarks of SRS Labs, Inc.

### ***Limited Warranty.***

These limited warranties extend to original consumer purchaser or any person receiving this set as a gift from the original consumer purchaser and to no other purchaser or transferee.

### ***Limited Ninety (90) Day Warranty***

JATON warrant this product against defects in materials or workmanship for a period of ninety (90) days after the date of original retail purchase. During this period, JATON will repair or replace a defective product or part, at their option, with a new or refurbished product or part without charge to you. You must deliver the entire product to JATON or a JATON Authorized Service Station. You are responsible for all transportation and insurance charges for the unit to and from the Authorized Service Station.

### ***Limited One (1) Year Warranty***

JATON further warrant the parts in this product against defects in materials or workmanship for a period of one (1) year after the date of original retail purchase. During this period, JATON will repair or replace a defective product or part, at their option, with a new or refurbished product or part without charge to you, except that if a defective part is replaced after ninety (90) days from the date of the original retail purchase you pay labor charges



involved in the replacement. You must also deliver the entire product to JATON or a JATON Authorized Service Station. You are responsible for all transportation and insurance charges for the unit to and from the Authorized Service Station.

### ***Register Product***

You should read the owner's manual thoroughly before operating this product. You should complete and mail the enclosed Registration card within thirty (30) days after you, or the person who has given you this product as a gift, purchased this product. This is one way to enable JATON to provide you with better customer service and improved products. Failure to return the card will not affect your rights under this warranty.

### ***Your Responsibility***

The above warranties are subject to the following conditions:

1. You must retain your bill of sale or provide other proof of purchase.
2. You must notify JATON or a JATON Authorized Service Station within thirty (30) days after you discover a defective product or part.
3. All warranty servicing of this product must be made by JATON or a JATON Authorized Service Station.
4. JATON warranties are effective only if the product is purchased and operated in the same continent territorial regions.
5. Labor service charges for set installation. Set up, adjustment of customer controls and installation or repair of antenna systems are not covered by this warranty. Reception problems caused by inadequate antenna systems are your responsibility.
6. Warranties extend only to defects in materials or workmanship as limited above and do not extend to any



product or parts which have been lost or discarded by you or to damage to products or parts caused by misuse, accident, damage caused by Acts of God, such as lightning or fluctuations in electric power, improper installation, improper maintenance or use in violation of instructions furnished by us; or to units which have been altered or modified without authorization of JATON or to damage to products or part thereof which have had the serial number removed, altered, defaced or rendered illegible.

7. Physically damaged this unit, or remote control is not acceptable for repair or exchange whether in or out of warranty and will be returned as received.

All warranties implied by state law, including the implied warranties of merchantability and fitness for a particular purpose, are expressly limited to the duration of the limited warranties set forth above. With the exception of any warranties implied by state law as hereby limited, the foregoing warranty is exclusive and in lieu of all other warranties, guarantees, agreements and similar obligations of manufacturer or seller with respect to the repair or replacement of any parts. In no event shall JATON be liable for consequential or incidental damages.

No person, agent, distributor, dealer or company is authorized to change, modify or extend the terms of these warranties in any manner whatsoever. The time within which an action must be commenced to enforce any obligation of JATON arising under the warranty or under any statute, or law of the United States or any state thereof, is hereby limited to ninety (90) days from the date you discover or should have discovered, the defect. This limitation does not apply to implied warranties arising under state law.

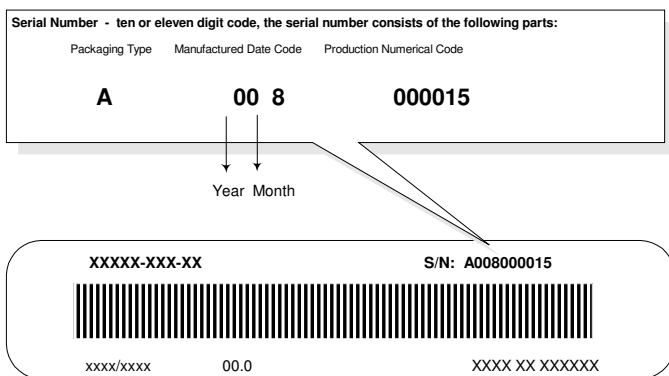
This warranty gives you specific legal rights and you may also have other rights which may vary from state to state. Some states do not allow limitation on how long an implied warranty lasts, when an action may be brought, or the exclusion or limitation of incidental or consequential damages, so the above provisions may not apply to you.



***IMPORTANT: PACKING AND SHIPPING INSTRUCTION***

When you return the merchandise back to JATON Service Station, you must pack the enclosure (Switch Box Unit) and the product's original carton box into a legal shipping material (Shipping Box), Do Not use Jaton product carton box for your shipping box.

**Warranty Service Use Only**



**Product Label and Manufactured Date Code**