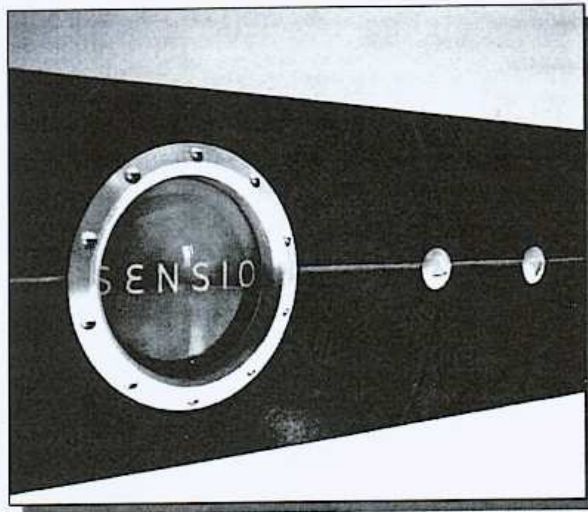


SENSIO

***Stereoscopic Video Processor
S3D-100***



Installation and Operation Manual



*Please do not forget to
register this product with the
attached card, or online at
www.sensio.tv*

Congratulations !



You have just purchased your ticket to the exciting world of full-screen, high-quality 3D at home. Winner of a 2003 CES Innovations award, this product will provide you with countless hours of unique, immersive experience.

We at Sensio™ take pride in developing the most cutting-edge immersive technologies. We thank you for your support.

Special Thanks

We wish to thank the Alliance Numériqc for their support in the development of this product.



Alliance numériqc

réseau de l'industrie
numérique du Québec
Quebec's digital
industry network

Important Safety Notices

FIRE HAZARDS TO PREVENT FIRE OR SHOCK HAZARD DO NOT EXPOSE UNIT TO RAIN OR MOISTURE. NO NAKED FLAME SOURCES (SUCH AS CANDLES) SHOULD BE PLACED ON THE UNIT.

CERTIFICATION This equipment has been tested and found to comply 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:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

CAUTION TO PREVENT ELECTRIC SHOCK, DO NOT USE THE PLUG WITH AN EXTENSION CORD, RECEPTACLE OR OTHER OUTLET UNLESS THE BLADES CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE

WARNING! BEFORE PLUGGING THE UNIT FOR THE FIRST TIME, READ THE FOLLOWING SECTION CAREFULLY. THE VOLTAGE OF THE AVAILABLE POWER SUPPLY DIFFERS ACCORDING TO THE COUNTRY OR REGION, BE SURE THAT THE POWER SUPPLY VOLTAGE OF THE AREA WHERE THIS UNIT WILL BE USED MEETS THE REQUIRED VOLTAGE (E.G. 120V) AS SPECIFIED ON THE REAR PANEL OF THE UNIT

OPERATING ENVIRONMENT

Operating environment and humidity :
+5°C to +30°C, less than 85% RH (cooling vents must not be blocked)

IMPORTANT SAFETY INFORMATION !!!

Please read the following section before installing the unit

READ AND FOLLOW INSTRUCTIONS - All the safety notices, installation and operating instructions should be read before this product is operated and strictly followed thereafter.

RETAIN INSTRUCTIONS - All instructions accompanying the unit should be retained in a safe place for future reference

HEED WARNINGS - All warnings found in the instructions and on the product must be strictly adhered to.

CLEANING - Unplug the unit from the outlet before cleaning. The front plate is sealed, and the unit is coated with a paint that requires only a polishing cloth or a soft, dry cloth. Never clean with water or any chemical products (e.g. household, window cleaners or others) as they may corrode and/or damage the cabinet.

ATTACHMENTS - Do not use brackets or other types of attachments other than those provided by the manufacturer, as they may cause hazards.

HUMIDITY, WATER AND OTHER LIQUIDS



Do not use this product near water or other liquids (e.g. sinks, bathtubs, pools or others) or in a humid environment (e.g. humid basements or others)

STANDS, TABLES AND OTHER ACCESSORIES - Do not place this product on an unstable cart, stand, bracket, table or other accessory, as the product could fall, causing serious injury to a child or adult as well as serious damage to the product. Any mounting scheme for the product should follow the manufacturer's instructions and use accessories provided or recommended by the manufacturer.

VENTILATION - Slots and openings in the cabinet are designed for adequate ventilation, to ensure proper operation of the unit and to prevent overheating. These openings must never be blocked or covered. They should never be blocked by putting the unit on a bed, rug, sofa or similar surface. This product should not be placed in a built-in installation such as a bookcase or a/v furniture unless proper ventilation is provided.

POWER SOURCES - This product should be operated only from the power source indicated on the back panel of the unit. If you are not sure of the type of power supply in your home or facility, please consult your retailer or local power company.

PERIODS OF NON USE - The unit should be unplugged if not used for a long period of time.

GROUNDING - This unit is equipped with a three-wire grounding plug. It will only fit in a grounding type power outlet. This is a safety feature. If you are unable to insert the plug into your outlet, contact your electrician to replace the obsolete, non-grounded outlet. Do not defeat the safety purpose of the grounding type plug.

PROTECTION OF THE POWER CORD - Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles and the point where they exit from the product.

PROTECTION FROM LIGHTNING



For added protection of the unit during a lightning storm, unplug it from the wall outlet. This will prevent damage to the product due to lightning and power-line surges.

OVERLOADING - Do not overload wall outlets, extension cords or integral convenience receptacles as this can result in a risk of fire or electrical shock.

OBJECTS AND LIQUIDS - Never push any objects of any kind in this product's openings as they may touch dangerous voltage points or short-out parts that could result in a fire, electric shock or unit malfunction. Never spill any liquids of any sorts on unit.

WALL OR CEILING MOUNTING - This product should not be mounted to a wall or ceiling.

HEAT SOURCES - This product should be kept away from heating sources such as radiators, stoves and other electrical devices (e.g. amplifiers and others) that produce heat.

DAMAGE REQUIRING QUALIFIED SERVICE - Unplug the product from the outlet and refer servicing to your retailer's qualified personnel under the following conditions:

- When the power-supply plug is damaged.
- If liquid has been spilled, or objects have fallen into the product.
- If the product has been exposed to rain, water or excessive humidity.
- If the product does not operate normally by following the operating instructions.
- If the product has been dropped or damaged in any way.
- If the product exhibits a distinct change in performance

CONTROLS AND ADJUSTMENT - Adjust only these controls that are covered by the manufacturer-provided instructions as an improper adjustment may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation.

IMPORTANT



This symbol is intended to alert the user of the presence of uninsulated, "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons



This symbol is intended to alert the user to the presence of important operating and maintenance instructions in the literature accompanying the unit

CAUTION

RISK OF ELECTRIC SHOCK

TO PREVENT THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER OF UNIT. THERE ARE NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

IMPORTANT NOTICE

About Stereoscopic Viewing

Viewing stereoscopic material is an exciting and intense experience, in many ways analogue to theme park "movie rides". It is not necessarily suited for everyone.

People with the following conditions or other health problems should not use this product:

- Epilepsy
- Sensitivity to flash lighting and strobing effects

This product should be used in a dark, light-controlled environment.

The high frequency of the IR shutter glasses and the full-screen resolution of the Sensio™ 3D Stereoscopic Video Processor make the viewing experience comfortable for the vast majority of users. However, stop viewing immediately if one of the following symptoms appear:

- Headache
- Eyestrain
- Blurry vision
- Double vision
- Involuntary movements, eye or muscle twitching
- Nausea
- Dizziness or disorientation

To prevent discomfort, viewing should not be prolonged over long periods of time. Take frequent pauses, especially while viewing "intense" 3D material.

Certain studies indicate that approximately 5% of the population are incapable of stereoscopic vision, whatever technology is used. Customers should ensure that they can view stereoscopic material prior to buying stereoscopic equipment.

IMPORTANT NOTICE

About compatibility of this unit

This Stereoscopic Video Processor is designed to operate with front-screen projectors and rear-screen projectors that have a VGA (HD15) input. It will not operate on conventional, interlaced-signal television sets, and its use with Plasma screens is not recommended. For an updated list of compatibility-tested projectors, please refer to the Sensio™ web site at www.sensio.tv

This unit is designed to decode material that was encoded under the Sensio™ 3D format. It will not convert 2D material into 3D, or decode material encoded under other formats (e.g. anaglyphic, field sequential, etc...)



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Before Using

Provided Accessories

Please ensure that the following items were received with the processor:

ONE (1) POWER CORD W/GROUND PLUG



TWO (2) PAIRS OF WIRELESS IR GLASSES (model may differ from illustration)



ONE (1) DVD DEMO DISC



ONE (1) DVD FEATURE FILM (title may be different)



ONE (1) INFRARED EMITTER



If any of the above mentioned items is missing from the package, please immediately contact your retailer to obtain replacement parts.

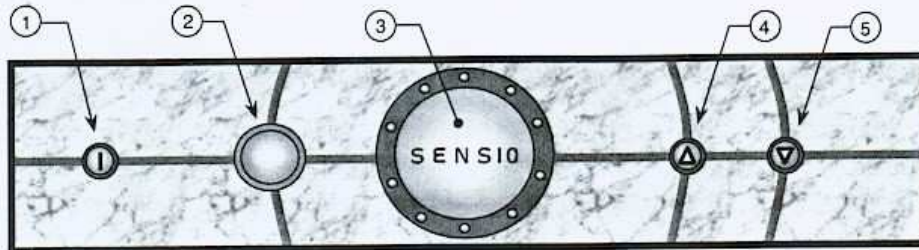
Optional Accessories

To complete some installations, and for additional convenience and features, the following items can be purchased separately from your retailer:

- ADDITIONAL GLASSES
- COMPONENT CABLES
- HD-15 CABLE (male / female)

Names and Functions

Front Panel



① ON / OFF button

Press to activate / deactivate the 3D Video Processor.

② IR / IRDA PORT

- Used in conjunction with a universal remote control to activate / deactivate the 3D Video Processor via an infrared signal.
- Used with special Sensio™ software (Palm-OS environment) for advanced configuration at installation by a qualified installer.

③ HUB / ACTIVATION MONITOR

The gentle light at the center of the Hub illuminates when the unit is activated.

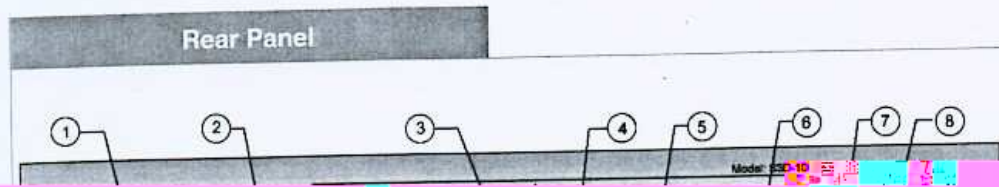
④ ADJUST / INCREASE BUTTON

Used for calibration of the unit (see adjustments for additional details).

⑤ ADJUST / DECREASE BUTTON

Used for calibration of the unit (see adjustments for additional details).

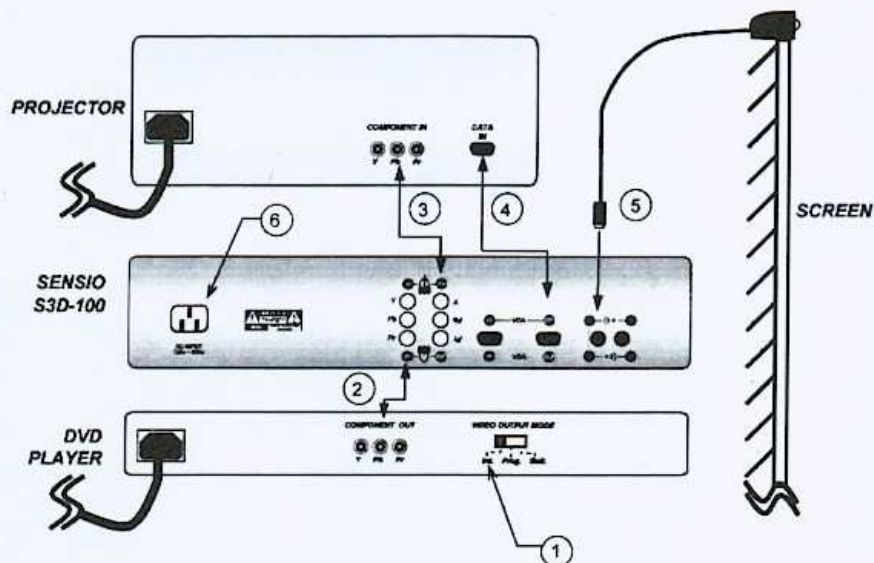
Names and Functions



Installing the unit

Basic Installation

This basic installation scheme is designed for users who connect their DVD player directly to their projector. Please refer to the procedure below the illustration for instructions.



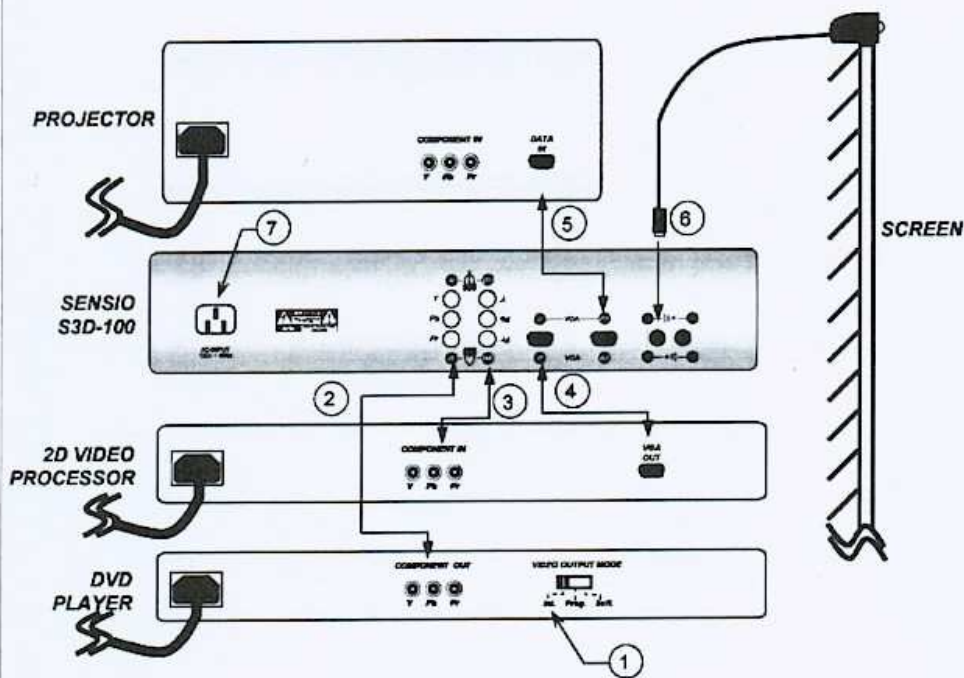
- ① **Set DVD player to Interlaced mode**
(if present). The S3D-100 has its own de-interlacing scheme. Leaving the DVD player in progressive mode will prevent the unit from decoding the stereoscopic signal properly.
- ② **Connect DVD player COMPONENT OUT to S3D-100 COMPONENT IN**
Use high-quality component cables for signal integrity.
- ③ **Connect S3D-100 COMPONENT OUT to projector COMPONENT IN.** This will provide an always active, fully amplified bypass for viewing non-stereoscopic material. Use high-quality component cables for signal integrity.

- ④ **Connect S3D-100 VGA OUT (HD15) to projector DATA IN (VGA)**
Use a high-quality VGA connector for signal integrity. If projector has RGBHV jacks instead of RGB, use an adapter.
- ⑤ **Connect Infrared Emitter to S3D-100**
The S3D-100 has dual infrared ports, either can be used. Install emitter on top of screen, facing towards viewers.
- ⑥ **Connect power to S3D-100**
Insert power cord into unit.

Installing the unit

Advanced Installation

This advanced installation scheme is designed for users who connect their DVD player to a 2D video processor (e.g. line doubler, quadrupler) before connecting it to the projector. Please refer to the procedure below the illustration for instructions.



① Set DVD player to Interlaced mode (if present).

The S3D-100 has its own de-interlacing scheme. Leaving the DVD player in progressive mode will prevent the S3D-100 from decoding the stereoscopic signal.

② Connect DVD player COMPONENT OUT to S3D-100 COMPONENT IN

Use high-quality component cables for signal integrity.

③ Connect S3D-100 COMPONENT OUT to 2D processor COMPONENT IN

This will provide a fully amplified bypass for viewing non-stereoscopic material. Use high-quality component cables for signal integrity.

④ Connect 2D processor or Computer VGA OUT (HD15) to S3D-100 VGA IN

When the S3D-100 is off, the VGA OUT of the S3D-100 is a pass-through from the 2D processor (or computer). Use a high-quality VGA connector for signal integrity.

⑤ **Connect S3D-100 VGA OUT (HD15) to projector DATA IN (VGA)**

Use a high-quality VGA connector for signal integrity. If projector has RGBHV jacks instead of RGB, use an adapter.

⑥ **Connect Infrared Emitter to S3D-100**

The S3D-100 has dual infrared ports, either can be used. Install emitter on top of screen, facing towards viewers.

⑦ **Connect power to S3D-100**

Insert power cord into unit.

Operating the unit

To view 2D material

If you have a basic installation, the component output of the S3D-100 will act as a bypass for the component signal from the DVD player. Select the COMPONENT source on your projector.

If you have an advanced installation, just turn the S3D-100 off. The VGA OUT of the S3D-100 will act as a pass-through for the VGA signal from your 2D processor (or computer).

To view 3D material

If you have a basic installation, turn the S3D-100 on and select the VGA or DATA source on your projector.

If you have an advanced installation, just turn the S3D-100 on. The VGA OUT of the S3D-100 will send the 3D signal to your projector.

At this point, you should adjust and set-up your Stereoscopic Home Theater System. Refer to the instructions on the next page.

To reduce "flicker"

When watching 3D movies in non-controlled lighting environments, users may perceive a faint "flicker" that is caused by the infrared shutter glasses.

To reduce the level of flicker, the S3D-100 features a Smart Dynamic Flicker Reduction Filter. This filter can be adjusted through an optional remote control (refer to page 17 for additional details).

Setting-up the unit

Infrared Emitter adjustment

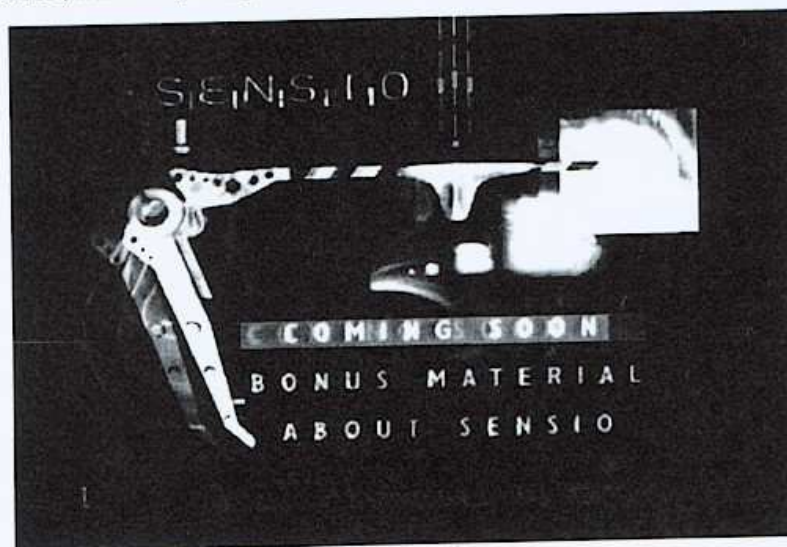
Once the installation is completed, turn the S3D-100 on. The hub should light up. Put the included DVD demo in your DVD player, and put the LCD shutter glasses on. At this point, it does not matter if the image is in perfect 3D or not, as this will be adjusted in the next step.

You should, however, witness a difference between what is on the screen with and without the glasses. If the glasses work correctly, you should perceive a distinct "flicker" if you look at them with the lights on. If not, adjust the infrared emitter so that it covers the viewing area in your home theater.

In the next step, we will synchronize the S3D-100 with your projector.

Shutter Glasses synchronization

With the glasses on and working, it is possible that you witness "ghosting", which is an effect created by a combination of left / right eye images on the screen at the same time (see illustration below). This can sometimes happen as certain video projectors have different settings and may not be in perfect sync with the glasses (thus not separating left and right eye images properly).



"Ghosting" effect

This is easily corrected using the adjustment buttons on the front panel of the S3D-100. Try adjusting the synchronization by keeping the INCREASE (⬆) button pressed. If the ghosting diminishes, stop when it is eliminated. If the ghosting increases, use the DECREASE (⬆) button instead until all ghosting is eliminated.

Shutter Left / Right adjustment

When you turn the S3D-100 or the projector on, it is possible that the left/right eye streams are inverted (i.e. your left eye receives the right eye image and vice-versa). This is not unusual, and is easily corrected by **pressing both adjustment buttons simultaneously**.

To check if this adjustment is correct, put your DVD demo in the player, and wait for the main menu to appear. In the bottom left corner of the screen, there is a letter. If you shut your left eye, you should see a "R" in your right eye (see illustration).



Left Eye (L)



Right Eye (R)

Maintenance

Shutter glasses battery replacement

The glasses that are provided with the unit already have batteries inside. The glasses are activated when you unfold them. To prolong battery life, it is recommended to fold the glasses when not in use.

The batteries should provide you with at least 40 hours of viewing time. When the glasses stop functioning properly, you should replace the batteries.

To replace batteries, open the battery compartment which is located inside the glasses, between the two eyes (see diagram below). Remove the two batteries and replace with two (2) "DL2032" 3V Lithium batteries or equivalent.



Cleaning the unit

When needed, the unit should only be cleaned with a soft, dry cloth. No chemical products or abrasives should be used.

The slate front panel is sealed and therefore resistant to stains.

The glasses should be cleaned with a soft, glasses cloth. Do not use tissue or paper towels as they will scratch the surface. NEVER immerse the glasses in water or use water to rinse them as it will damage the sensitive electronic circuitry inside the glasses.

Tips for optimized viewing

The Sensio™ S3D-100 is designed to bring you the best stereoscopic Home Theater experience. To maximize its effectiveness and your comfort, please follow these tips:

1. Ensure total darkness

- Stereoscopy is an immersive experience. The darker the room, the more immersive your experience will be. Turn off the lights, shade all windows and avoid the use of reflective materials in the design of your room (i.e. glass tables, shiny metals or plastics).

2. Provide comfortable seating

- Many of the movies you will enjoy will be packed with action and thrills. Ensure you and your guests are comfortably seated as you may be "carried away" by the action!

3. Keep you head straight

- You will find that your 3D experience will be at its maximum if you keep your head straight.

4. Take pauses

- 3D is captivating, but it is quite intense. Give your body a break after viewing a movie or if you start to feel discomfort.

5. Find your favorite distance to the screen

- Some people enjoy 3D better when they are close to the screen, while others find it more comfortable with a certain distance. Try different settings until you are satisfied that you have the best experience.

Remote operation

Remote Control for Basic Functions

The S3D-100 was designed for simplicity and does not require a remote control to operate. However, its basic functions can be controlled from a universal infrared remote control that has a learning mode feature. The commands can be sent by a Palm Pilot™ PDA using a special Sensio™ remote control software. These functions are:

- S3D-100 on / off (discreet signals)
- Glasses sync adjustment
- Left / Right eye inversion
- Smart Dynamic Flicker Reduction Filter (toggle)

To program your remote, please ask your retailer for the Palm Pilot™ PDA (Palm OS 4) Sensio™ software (or download it from the Sensio™ Club if you registered your product) or bring your universal remote control to the store for programming.

Advanced Calibration Functions

The S3D-100 is calibrated at the factory to meet the industry standards. Nevertheless, some of its video functions can be adjusted to fit your viewing preferences. These functions include:

- Brightness Adjustment
- Contrast Adjustment
- Color Saturation
- Smart Dynamic Flicker Reduction Filter

To access these functions, please ask your retailer. The functions can be accessed on a Palm Pilot™ PDA (Palm OS 4 and above) with a special Sensio™ installation software.

Troubleshooting

After initial installation

The following section provides advice if you encounter problems after installing the unit. Before troubleshooting, you should ensure your installation conforms to the diagrams.

1. There is no image

- Are the glasses working? If you turn the lights on, you should perceive a distinct flicker. If not, the problem may be caused by one of the following:
 - The processor is not on. When activated, you should see a blue light in the hub on the front panel.
 - The component cable is not plugged correctly between the DVD player and the Sensio™ 3D or it is defective.
 - The DVD player is not turned on.
 - The IR emitter is not plugged in properly.
 - The IR emitter is not facing the glasses or the view is obstructed.
- If the glasses are working, the problem may be caused by one of the following:
 - The HD-15 cable between the processor and the projector is defective or not properly connected (ensure the VGA OUT on the S3D-100 is plugged in the VGA IN or DATA IN input on the projector).
 - The projector is not on the DATA / COMPUTER input

2. There are 2 images side by side

- The projector is showing the image from the component "pass-through" output of the processor. Ensure the HD-15 cable is connected and select the DATA input on your projector.

3. There is an image, but it is scrambled

- This is caused by a signal from the DVD player that is not fully compliant with the Sensio™ 3D format. The probable causes for this problem are:
 - The DVD player aspect ratio is incorrect. Switch to "4:3" or automatic mode.
 - The DVD player is switched to "progressive" output. Bring it back to "interlaced".
 - The DVD player has an internal video processor. This is not frequent, but some DVD players have this feature which scrambles the Sensio™ 3D signal. De-activate the internal processing. If it can't be done or the problem persists, please write down the model and brand of your DVD player and contact your retailer.

4. I cannot watch my 2D movies anymore

- When switching from 3D to 2D, you have to connect the "component out" of the processor to the "component in" of the projector, and select the corresponding input on your projector. This is a fully amplified bypass that feeds the DVD signal directly to the projector.

5. There is an image, but it is "doubled" (ghosting)

- This is caused either because the glasses are not functioning or they are not synchronized with the projector. Check the glasses first. You should perceive a faint "flicker". If not, the probable causes for the glasses not working are:
 - The emitter is not positioned properly, the infrared beam is blocked (i.e. objects causing interference) or the user is out of the emitter's range.
 - The batteries in the glasses need to be replaced.
 - The glasses are defective. Check both pairs before coming to this conclusion, though, as all units are verified prior to shipment.
- If the glasses are working, then it's a problem of synchronization. Refer to the "shutter glasses synchronization" section of this manual on page 13.

6. There is no ghosting, but the 3D looks "weird"

- The 3D picture is reversed. Refer to the "shutter left / right adjustment" section of this manual on page 14.

While in operation

1. The 3D looks "weird"

- The 3D picture is reversed. Refer to the "shutter left / right adjustment" section of this manual.

2. The shutter glasses "jump" – they work intermittently

- The batteries need to be replaced. Follow the battery replacement instructions in this manual.
- You are at the limit of the IR emitter's range. Reposition the emitter to provide a better coverage of your viewing area.

3. I bought this new 3D movie, and it does not work

- The S3D-100 is designed to decode Sensio™ 3D material. Ensure the media you plan on using bears the "Sensio™ 3D" logo.



4. All of a sudden, the picture became "garbled" on the screen

- There may have been a power surge. Simply unplug the S3D-100 for 30 seconds and plug it again.

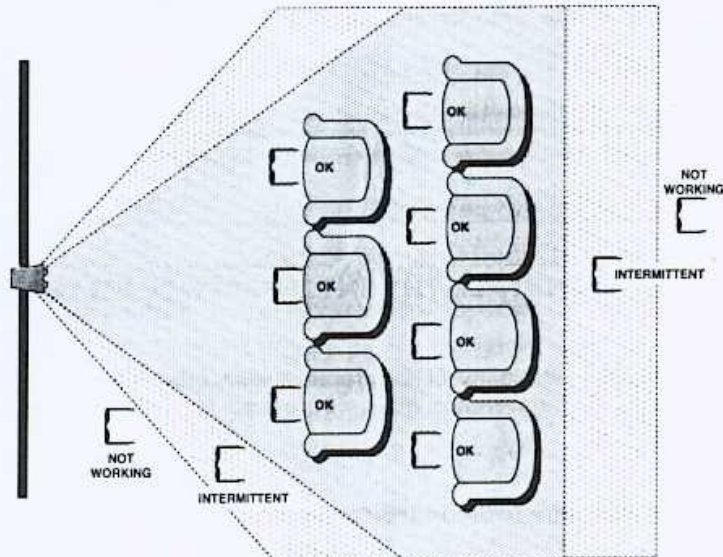
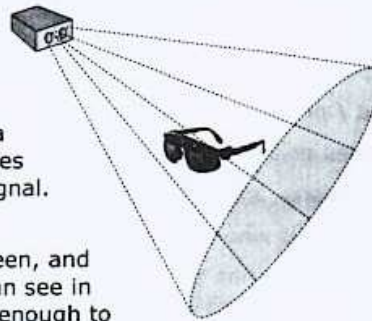
Specification sheet

Video Inputs	
Connectors	- Component (Y, Pb, Pr): DVD Input - RGB (DB 15): 2D Video Processor / Computer
Sensio™ 3D input	- NTSC, 29.97 Hz (interlaced) - Aspect Ratio: 4:3
Video Outputs	
Modes	- Sensio™ 3D (ON) - Pass-through (OFF)
Connectors	- Component (Y, Pb, Pr): DVD pass-through - RGB (HD 15): 2D Video Processor pass-through / Sensio™ 3D
Sensio™ 3D resolution	- 640 x 480 (square pixel after scaling) - Progressive signal
Sensio™ 3D frequency	- 59.94 Hz (factory default, universal mode) - 71.928 Hz (high frequency, special configuration – requires firmware upgrade)
3D Interface	
Shutter glasses	- LCD wireless (2 pairs included) - Two (2) long-life 3V Lithium batteries in each pair of glasses
Infrared emitter	- 20 feet range - Circular Mini Din 3 connector
Other specifications	
Power requirements	85-264 VAC, 50/60 Hz
Dimensions	Width: 17.0 in. Depth: 13.5 in. Height: 6.25 in. desktop, 2U rack mount, brackets included for rack mount installation
Remote control	IR port on front of unit. Discreet on / off signals for optional programming of universal remote control (with learning mode)
Advanced Calibration	Via IRDA port on front of unit, with Palm-OS® 4 based software

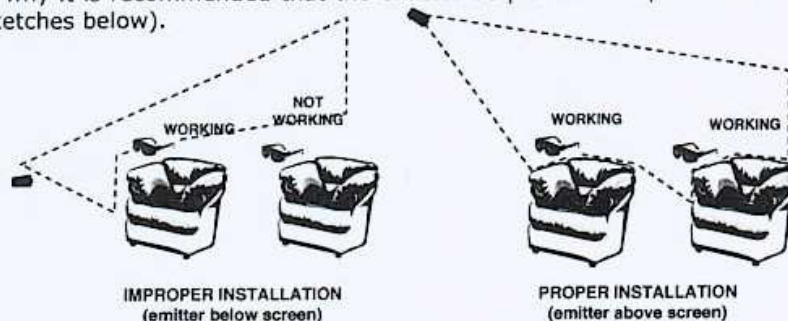
HOW TO INSTALL THE INFRARED EMITTER

The infrared emitter provides a wide coverage to ensure quality viewing from the viewing area of your Home Theatre System. To ensure proper viewing, the following instructions should be observed.

1. The emitter beams its signal in the form of a cone (see at right), which means that glasses have to be within this cone to receive the signal.
2. Install the emitter on top of the viewing screen, and ensure it is centered horizontally. As you can see in the sketch below, the cone is typically wide enough to cover the viewing area. At the edges, the signal tends to get lost which will result in intermittent operation of the glasses. Outside the cone, the glasses will not function at all.



3. To ensure proper viewing, the beam must not be blocked by any objects, which is why it is recommended that the emitter be placed on top of the screen (see sketches below).



4. Ensure the viewing area is satisfactory before permanently fixing the emitter.

PHOTOSENSITIVE EPILEPSY WARNING

A very small percentage of individuals may experience epileptic seizures when exposed to certain light patterns or flashing lights. Exposure to certain patterns and / or backgrounds on a television screen or projector, while viewing 2D, video games or 3D material may induce epileptic seizures in these individuals. Certain conditions may induce previously undetected epileptic symptoms even in individuals who have no history of prior seizures or epilepsy. If you, or anyone in your family has an epileptic condition, consult your physician prior to using the shutter glasses. If you experience any of the following physical effects while watching 3D material – dizziness, altered vision, eye or muscular twitches, loss of awareness, disorientation, involuntary movements or convulsions, IMMEDIATELY DISCONTINUE use of the product and consult your physician before resuming viewing

HOW TO INSTALL THE INTERFERENCE FILTER

In order to reduce the possibility of interference with other devices, the infrared emitter comes with an interference filter. To install the filter, please follow the instructions below:

1. Insert the emitter's wire (close to the connector) inside the filter.
2. Loop the wire around the filter, and pass it inside again
3. Pull gently on the wire to tighten it around the filter and close the filter.

