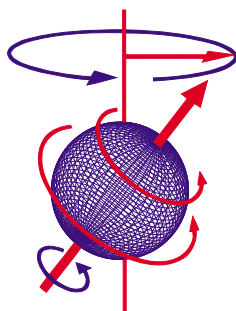


# Installation / Operation Manual

## Serene Sound Audio System



### **Resonance Technology, Inc.**

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[www.mrvideo.com](http://www.mrvideo.com)

**Innovative Audio Entertainment /  
2-Way Communication Systems**



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Caution: federal law restricts this device to sale by or on the order of a physician.

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## 1. Introduction

Congratulations on your purchase of the MRI-Compatible Serene Sound Audio system for patient comfort. This device represents more than 40 years of development and state-of-the-art engineering. We are confident this product will give you the tools you need for comforting the patient while undergoing MRI scans.

This installation/operation manual outlines how to properly install and operate the system.

Thank you for choosing to purchase this system from Resonance Technology, Inc., the leader in fMRI and MRI patient comfort systems.

Suggestions on how to improve this system are always welcome.

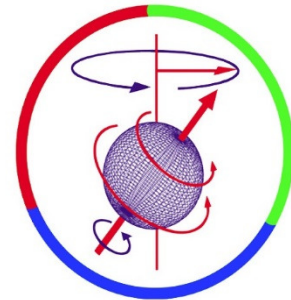


Sincerely,

A handwritten signature in blue ink, appearing to read 'Mokhtar Ziarati', with a large, stylized flourish at the end.

**Mokhtar Ziarati**

President and CEO



**Resonance Technology Inc.**

HQ: 18121 Parthenia Street  
Northridge, CA 91325 USA

## 2. Safety Information

At Resonance Technology, Inc., patient safety is our top priority. Please review this section completely as its contents are vital to the safety of the installer, the clinician/operator, and the patient.

### 2.1. Important Warnings for Patient and Operator Safety

#### **WARNING**

**Prior to every use, inspect all system components that come in contact with the patient. Discontinue product usage immediately if any damage is evident or presents other potential hazards. Use of damaged components may cause injury to the clinician or the patient.** Examples of hazardous damage include but is not limited to the following:

- Microphone boom separated from headset housing (exposing wires)
- Cable padding torn, exposing cable inside
- Any damage potentially exposing wires to the patient

If the headset becomes damaged, stop using the headset immediately and notify Resonance Technology, Inc. Customer Service for assistance at (818) 882-1997 or (800) 428-6788. Use of broken components can cause injury to the clinician or the patient.

### 2.2. Precautionary Patient Conditions

Precautionary conditions are to be observed with patients who use the system continuous in excess of 3 hours or more.

#### Loud Sound Volume

Avoid using audio headset with high volume for the patient as hearing expert's advice against continuous loud and extended audio play. If the patient experiences a ringing in their ears, reduce the audio headset volume. The patient is advised to consult their health doctor for further advice.

### 2.3. Use Restrictions

#### Shelf-Life and System Maintenance Service Schedule

The Serene Sound System comes with a one-year original manufacturer warranty and a shelf life of two years from the date of installation. Optional extended warranty may be purchased for this system. With patient safety in mind, Resonance Technology, Inc. recommends daily to weekly visual inspection on heavily used parts of the system like the Headset. There is no set maintenance requirements for the Serene Sound System, but Resonance Technology offers its customers product servicing for this Serene Sound System components that are no longer functioning properly.

#### Restrictions on Using Non-Resonance Technology, Inc. Components with the CinemaVision system

The original manufacturer's warranty will be voided if any non-Resonance Technology, Inc. Power Supply is used to provide power the Serene Sound Transducer. The original manufacturer's warranty will be voided if other non-Resonance Technology, Inc. approved components are connected to the Serene Sound system. In addition, Resonance Technology, Inc. cannot be held responsible or liable for any unauthorized use of this equipment. If you have any questions about how to operate this system, please read this user manual or call Resonance Technology, Inc. customer service at (818) 882-1997 or email [support@mrivideo.com](mailto:support@mrivideo.com).

### 2.4. MRI Environment Hazards

Installation of materials inside the MRI suite must be done with extreme caution and only by authorized personnel. Care must be taken to keep ferromagnetic materials such as tools, filter plates, screws, etc. at least three meters (approximately 10 feet) away from the energized magnet. Absolutely no work should be done near the filter panel when a scan is in progress.

**All cabling inside the MRI environment should either be connected or terminated properly. Failure to do so may result in skin burns related to RF energy. All cables should be run straight and never looped, as this may also cause serious skin burns inside the MRI room.**

In addition, no persons with ferromagnetic prosthetic devices such as pacemakers or joint replacements should enter the MRI suite at any time. Extremely high magnetic forces have the potential to dislodge ferrous items at high velocities that can result in serious injury or death.

Only system components explicitly designated for use in the MRI suite should be placed inside the MRI suite. Components not designated for use inside the MRI suite may present a projectile hazard and can become airborne, causing property damage, serious bodily injury, or death. Please refer to the installation block diagram to determine which components belong inside the MRI suite.

Resonance Technology, Inc. will not be held liable for any injuries or property damage which may occur as the result of improper use or installation of this product. By agreeing to this notice, users certify that they are familiar with basic safety procedures in an MRI room environment and that they have read and understand these safety precautions.

For questions regarding installation procedures or this manual, Resonance Technology, Inc. technical support staff may be reached Monday through Friday 8 a.m. to 5 p.m., Pacific Standard Time at (818) 882-1997, or by email at [support@mrivideo.com](mailto:support@mrivideo.com).

## 2.5. General Warnings for Electronic Products

### Electric shock

Failure to observe all operating and maintenance instructions may cause damage to this product and may result in property damage and/or injury or death from electric shock, fire, or other cause.

To avoid the risk of electric shock or fire hazard, a multi-outlet power strip or extension cord should not be connected to the video monitor socket outlet on the CinemaVision controller. This socket outlet should only be used to power the CinemaVision video monitor provided with the system.

### Do not disassemble this product.

Only Resonance Technology, Inc. trained, and authorized personnel should perform all required service for this product. Failure to comply with this warning may result in property damage, injury and/or death from electric shock, fire, or other cause.

### Avoid exposing this product to extreme environments.

This product may be damaged by high temperatures, direct sunlight exposure, by dropping this product, or by other mechanical shock. Do not expose this product to rain or excessive moisture. Avoid these conditions as the video goggle lenses may become damaged and may result in eye fatigue to the patient.

### Unplug this product when not in use for long periods of time.

Always unplug this product when not in use for extended periods of time or during MRI maintenance. Leave connected if used daily. In addition, to prolong the life of the video goggle, use the Technologist Remote to turn off the power to the video goggle at night or when not in use. Note that if the system is not used for 2 hours, it will hibernate and you may have to press the Tech Remote TALK button to wake up the system.

## 2.6. Labeling Used to Indicate Device Safety



### **Type BF Applied Part**

Devices that have conductive contact with the patient or have applied parts that are fixed in medium or long term contact with the patient.



### **MR-Safe Device**

Device considered **safe** for use anywhere inside the magnet room.



### **MR Unsafe Device**

















Device considered **unsafe** for use in the MR room. These items should not be taken inside the MR room due to being a projectile hazard in the magnetic field.

# 3

# Installation Materials
























## 3. Installation Materials

Your Serene Sound system comes complete with all the necessary components to complete the system installation at your facility. The following checklist is provided for materials verification purposes:

Main System Components					
Part Number	Quantity	Photo	Description	MR Safe	Installation Location
RTC-660-170-370-000	1		Serene Sound Controller		Control Room
RTC-660-050-535-000	1		Serene Sound Controller Power Supply		Control Room
RTC-650-040-000-002	1		Small Speakers		Control Room
RTC-650-067-000-000	1		Slim Softshell Headset with Headband		Magnet Room
RTC-660-050-540-001	1		Serene Sound Transducer		Magnet Room
RTC-651-301-0000-A00	1		CinemaVision MR [White] Transducer Power Supply		MR Penetration Panel Cabinet
	1		Touch Screen Tablet		Control Room
RTC-650-020-000-000	1		Technologist Remote Control		Control Room

# 3

# Installation Materials

Common Initial Shipment System Components/Accessories					
Part Number	Qty	Photo	Description	MR Safe	Installation Location
RTC-SS	1		Installation / Operation Manual (This manual)		Stored/ Control Room
RTC-650-050-270-001	1		Transducer Acrylic Stand		Magnet Room
RTC-650-050-182-000			Transducer Mounting Plate (not shipped when Acrylic stand is shipped)		Magnet Room
RTC-ALS-HEC	50		Headset Earpiece Covers		Stored/ Control Room
RTC-650-060-052-000	10		Headset Microphone Cushion cover		Stored/ Control Room
RTC-ALS-TWR	50		Tie Wraps		Control Room
RTC-ALS-TWH	20		Tie Wrap Holders		Control Room
RTC-ALS-HDH	1		Headset Hooks		Magnet Room
RTC-101-102-001-101	1		2-Channel MR Laser Link Cable		Installed From control room to magnet room
RTC-101-306-003-000	2		Hospital Grade AC Power Cord		Equipment Room/ Control Room
RTC-650-050-005-PF1	2		Remote Outlet Switch with Remote		Equipment Room/ Control Room
RTC-330-170-404-000	1		Mini Stereo Male to Male Cable		Stored/ Control Room

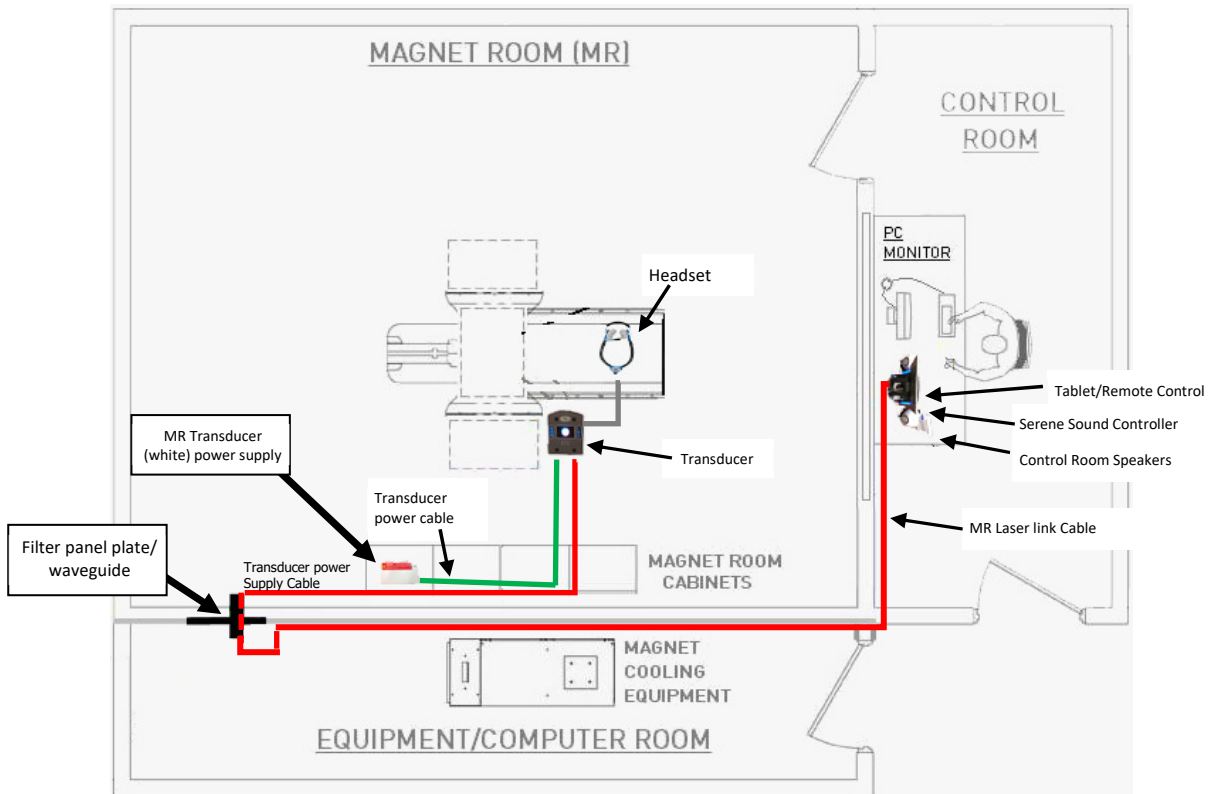
Uncommonly shipped System Components/Accessories unless requested/purchased by customer					
Part Number	Qty	Photo	Description	MR Safe	Installation Location
RTC-650-064-000-002	1		Earbud Headset		Magnet Room
RTC-650-067-1031-0A0	1		Earbud Headband		Magnet Room
	2		Earbud HS – Yellow foam Round cushions		Magnet Room
RTC-650-069-1521-X01	50		Earbud Ear tips and Foam		Stored/ Control Room
RTC-101-239-001-001	1		5-pin Round Female to 5-pin Round Female Cable (12M/39ft)		Magnet room
RTC-651-000-453-000	1		Custom Headrest for 8-channel head coil		Control Room

# 4 Room Layout Overview for Installation

## 4. Room Layout Overview for Installation

**WARNING: Absolutely no ferromagnetic tools should be brought inside the MRI Suite!**

Below is the standard setup for the Serene Sound system. Your individual installation may vary, but will generally be distributed in three areas: 1) Control Room, 2) Computer/Equipment Room and 3) Magnet Room.



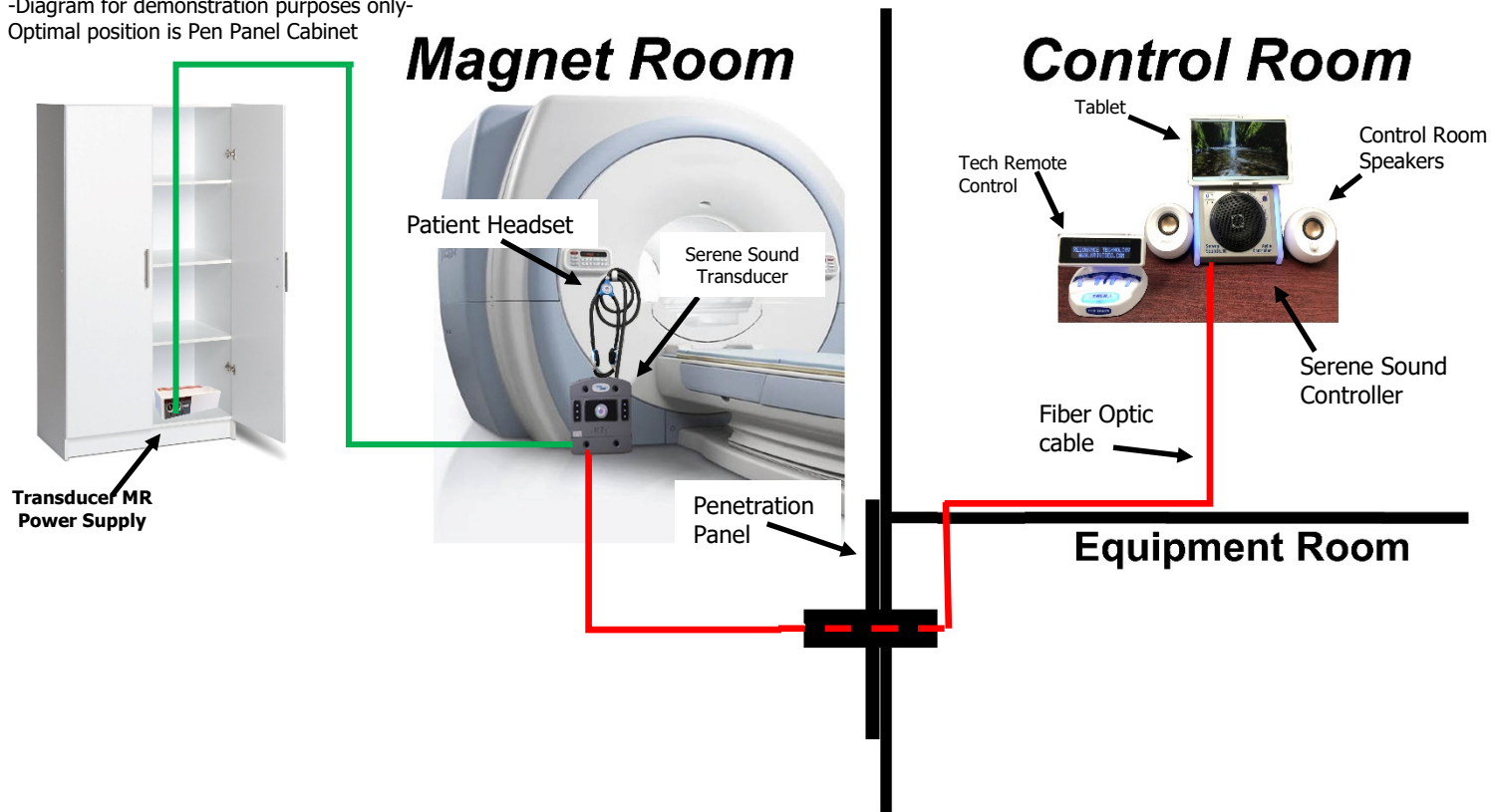
The Control Room setup consists of placement and connection of the Serene Sound Controller, Technologist Remote Control and Stereo system.

A single Laser Link Fiber Optics cable bundle will run from the Serene Sound Controller through the penetration panel waveguide to the Serene Sound Transducer. With the exception of the headset, all Magnet Room Serene Sound components must be installed to the side of the magnet shroud, also the transducer power cable should never be in parallel with magnetic coil. Additionally, these components should be placed in a light traffic area.

# 4 Room Layout Overview for Installation

## 4.1. Block Diagram

Transducer Power Round to Round Cable  
Usually ran thru the ceiling.  
-Diagram for demonstration purposes only-  
Optimal position is Pen Panel Cabinet



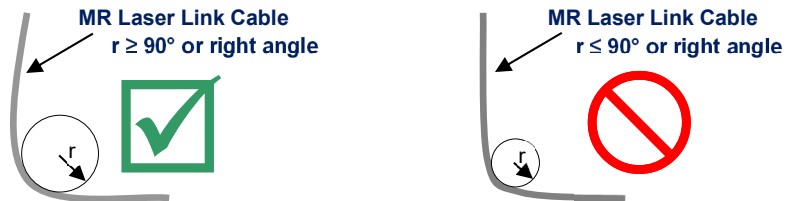
# 5

# Installation Procedure

## 5. Installing the MR Laser Link Cable and Transducer Power Supply Cables

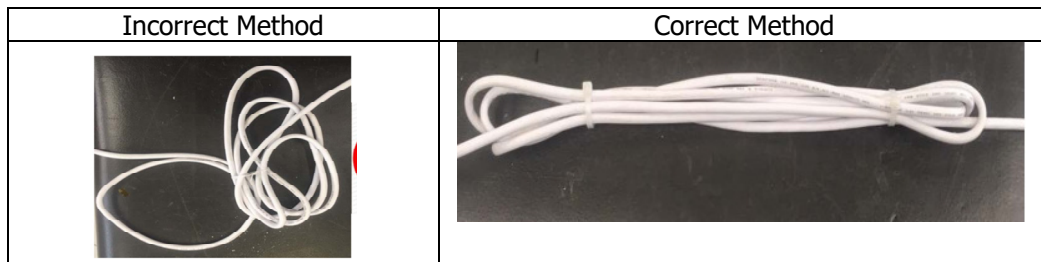
The preferred method of routing the fiber optic cable is to run the cable from the control room through the overhead ceiling drop tiles and down into the computer room in front of the filter panel through the Fiber Optics Waveguide. Excess fiber cable can be stored above ceiling tiles. It can then be run alongside the other MRI cables going to the magnet. The cable should end where you intend to locate the transducer.

**Note: Care must be taken to ensure the cable is not bent in radius of less than 15cm (90 degrees or right angle) or damage to the optical fibers will occur.**



The routing of the transducer power cables will vary somewhat depending on the facility layout and the magnet type. For most facilities and magnets, the typical procedure would be as follows:

- Determine the length of cable needed from the location of the transducer to transducer power supply. Note: Transducer power supply needs to be at least 10 feet from the nearest wall power plug. If the power cable is too long RTC recommends not looping the power cable and tying it down with the tie wraps in long circle method. See photos below.



- Route the transducer power cable that will be used, following a similar path to the fiber optic cable. **Avoid running the power cable close and/or in parallel with the high-energy RF cables for the magnet**, as the RF energy may interfere with reliable operation of the system.

## 5.1. Magnet Room Component Interconnection

- 5.1.1.** Place the Serene Sound Transducer in a secure area away from traffic as illustrated below. Install the audio headset firmly into the Transducer using the bracket provided. Be sure to connect the headset and fiber before powering on the unit. Also make sure that the audio headset connector is connected all the way into the Transducer audio socket for proper installation.

Press down firmly on the audio headset connector into the Transducer and use a NON-FERROUS Flat head screw driver to secure in place.



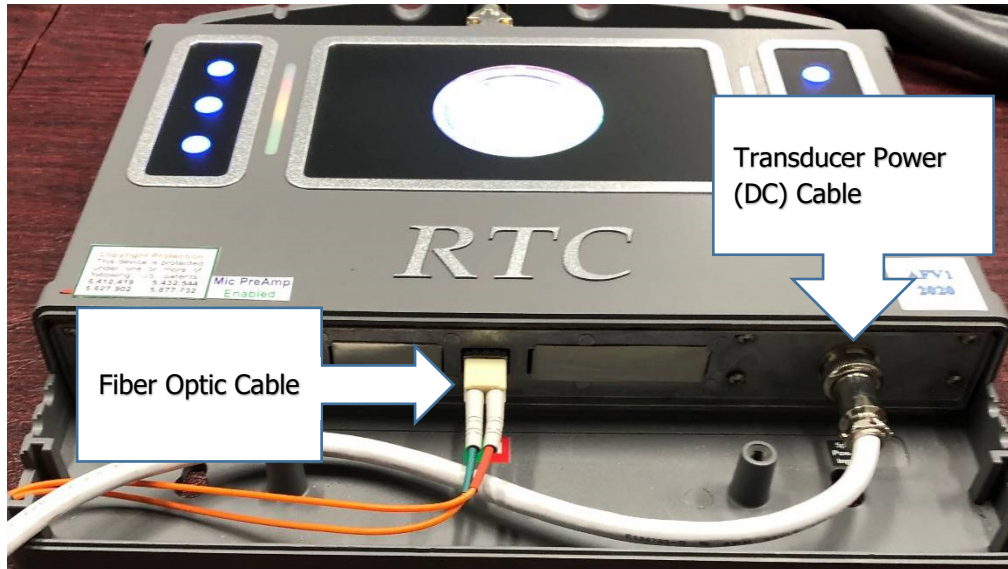
**SERENE  
SOUND  
TRANSDUCER  
PREFERRED  
LOCATION**



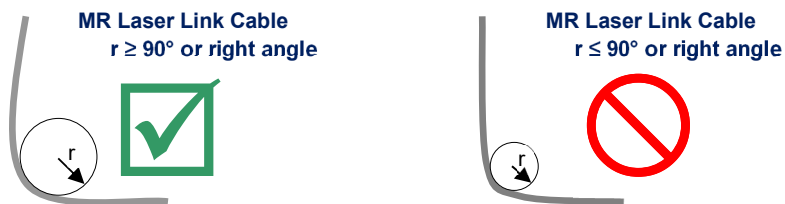
# 5

# Installation Procedure

**5.1.2.** Attach the MR Laser Link connectors to the Transducer as illustrated below. Match the cable colors to those on the unit's labels.



**Note:** Remember not to bend the individual cables smaller than a 15 cm radius.



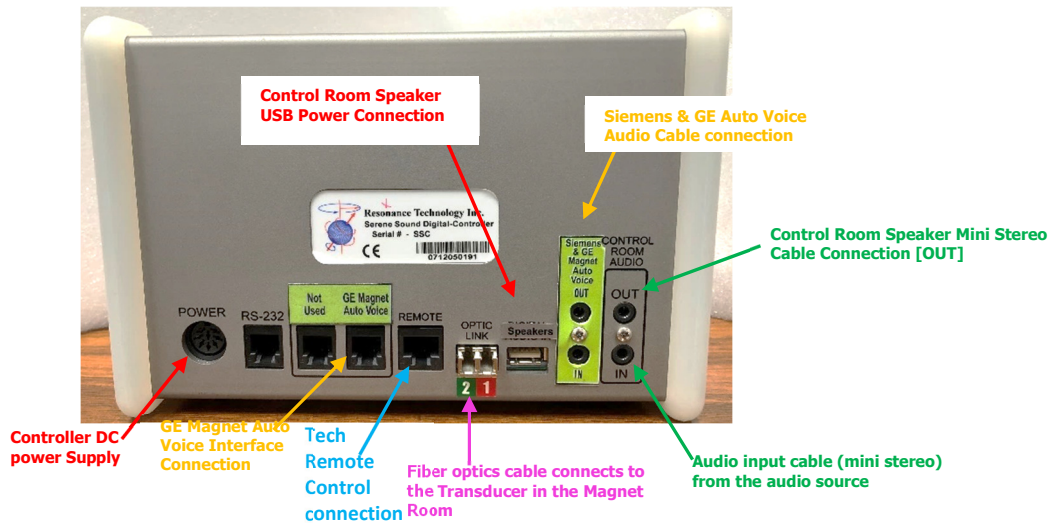
**WARNING:** Avoid creating loops in the cable as it may cause MRI image noise. Also, make sure to route the cable away from walkways inside the magnet room.

# 5

# Installation Procedure

## 5.2. Control Room Component Interconnection

Connect all appropriate cables to the Controller as illustrated below. RTC recommends connecting Power supply last after all other connections are made.



- Connect the 5-pin Round Cable from the Controller Power Supply to the Controller connector labeled POWER.
- Connect the Technologist Remote Control to the Controller connector labeled REMOTE.
- Connect the Control Room Speakers: mini stereo audio cable to the "CONTROL ROOM AUDIO" [OUT] and the Power to the USB Connection labeled "SPEAKERS".
- Connect the MR Laser Link cable to the Controller connector labeled Optic Link. Be sure the fiber optic cable matches the color coded markings on the connection housing.
- -Optional- Auto voice connection can be made in order to incorporate the MRI magnet Auto voice command features.

Connect the mini stereo jack cable from record-out to computer audio input. This feature can be used to record the patients' headset microphone response into a computer microphone input. This is an optional feature.

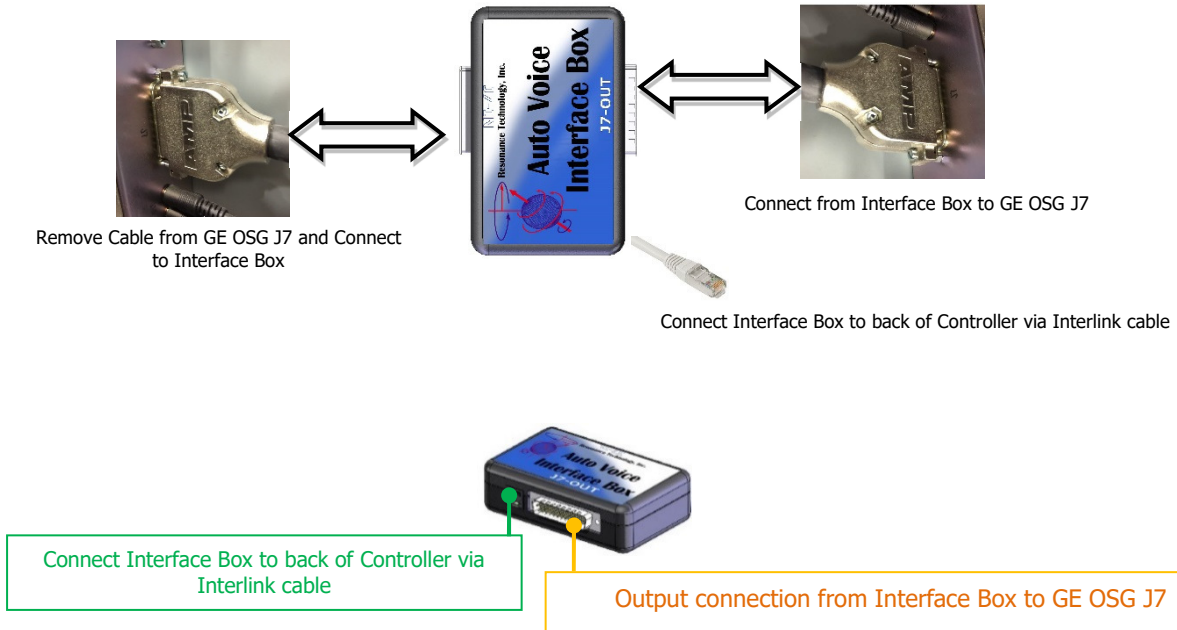
Apply power to the Controller first and then turn on the Transducer Power Supply. Wait until the system is fully synchronized (logo lights rotating on the Transducer inside the Magnet Room).

# 5

# Installation Procedure

## 5.3. GE Auto Voice Installation

**5.3.1.** The GE Auto Voice has an interface box to interface the Serene Sound Controller to the MRI signal. Remove the cable from GE OSG J7 and connect to the Interface box "J7-In". And connect a cable from "J7-Out" back to the GE OSG J7 location. The CV Controller receives the signal from interface box via interlink cable which connects to the controller back panel.



## 5.4. Siemens Auto Voice Connection

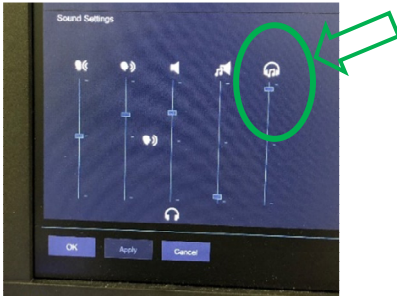
**5.4.1.** Remove the (LINE OUT) mini stereo audio cable from the back of the Siemens computer and plug it into the back of the AV console marked input using a mini stereo extension cable. From the back of the controller, plug a mini stereo cable (male-male) to output signal to plug back onto the Siemens computer marked audio out.



**5.4.2.** If Auto voice command volume are low, have the Siemens engineer, adjust the sound settings on the computer.

# 5

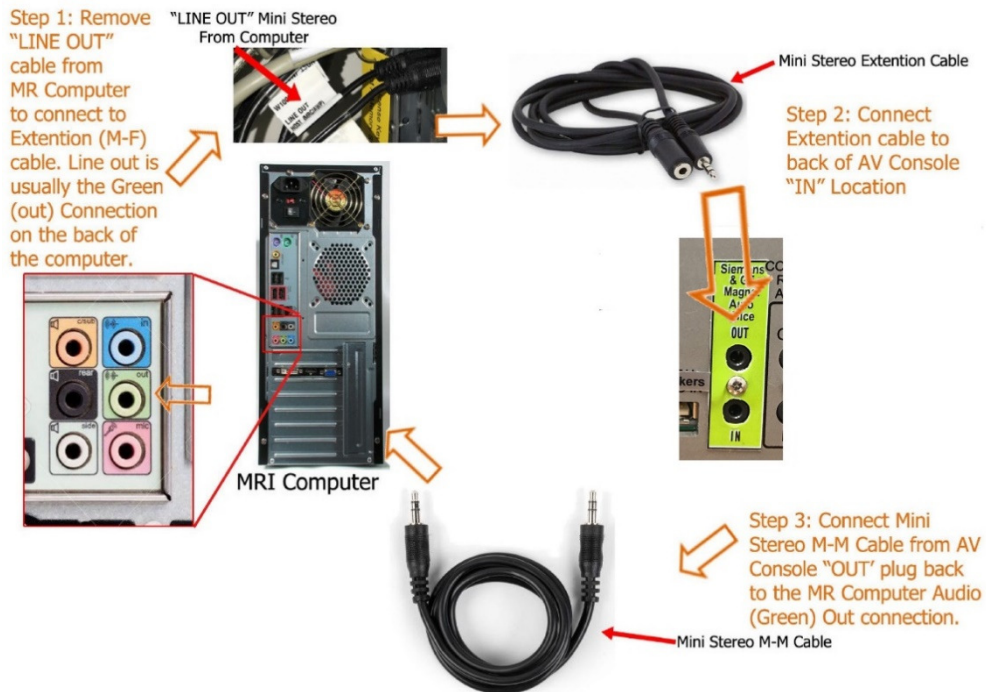
# Installation Procedure



## 5.5. Canon Auto Voice Connection

- 5.5.1.** Remove the LINE OUT mini stereo audio cable from the back of the computer and plug it into the mini stereo extension cable in order to plug it into the back of the AV Console (green label marked "IN")
- 5.5.2.** From the Back of the AV Controller, plug a mini stereo cable (male-male) to the Green label "OUT" signal to plug back into the computer marked audio out.
- 5.5.3.** Be sure to test Auto Voice from Canon MRI System to make sure audio command signal is redirected to the RTC headset.

Be sure to set the Auto Voice volume level on the computer to 100. On most computers, use "ctrl" "esc" to pull up window menu then go to control panel sound-speaker volume and raise it to 100.



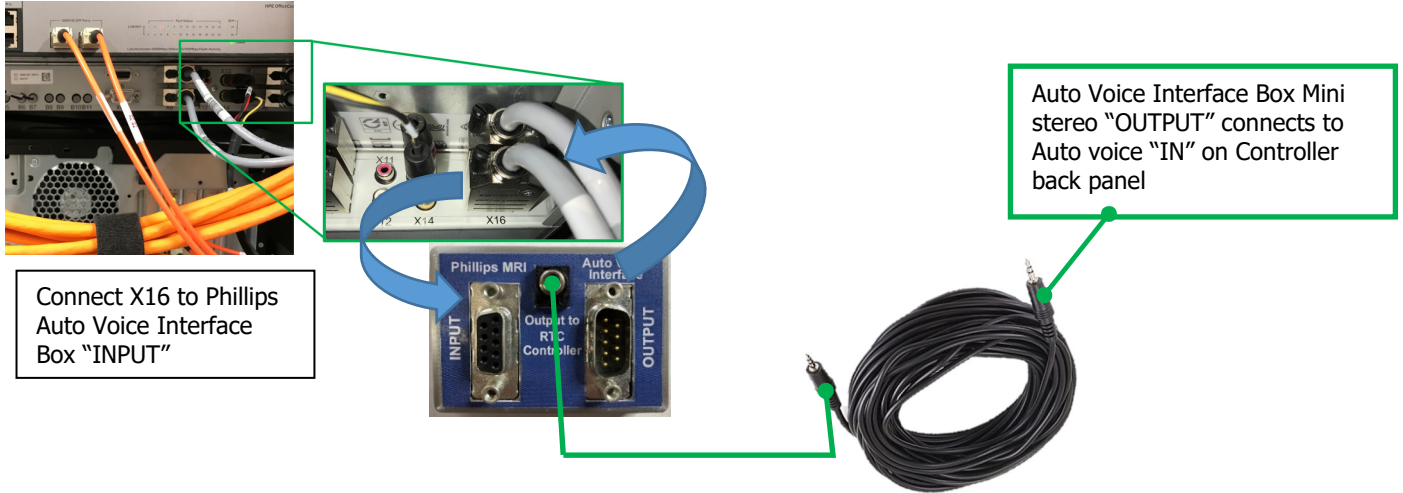
## 5.6. Phillips Auto Voice Connection

- 5.6.1.** Phillips DB9 male cable to X-16 Disconnected then plugged into the RTC Auto voice interface box. Then Connect Interface box where the X-16 was removed from the Interface box to X16 using a short 9pin Female-Male Cable.

Using a DB9 M-F Cable connect Phillips Auto Voice Interface Box "OUTPUT" to X16

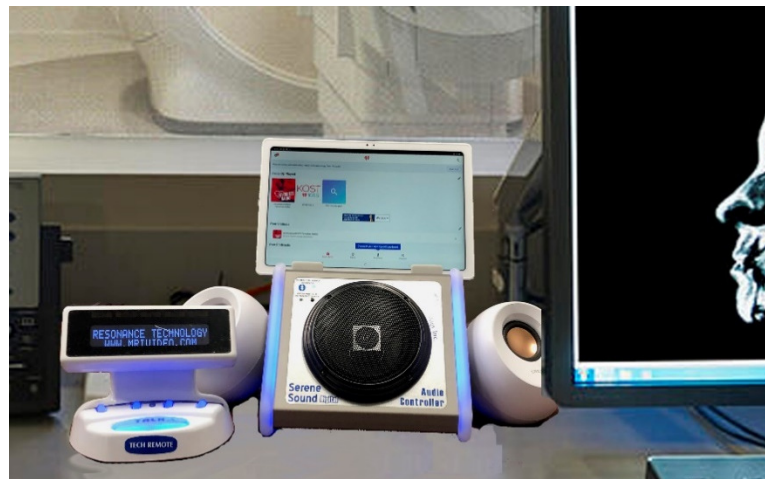
# 5

# Installation Procedure



## 5.7. Control Room Setup

**5.7.1.** When operating normally, the logo lights on the Transducer are rotating and the sides of the Controller are blue. However, after two to three hours of non-operation, the system goes into a SLEEP mode and the system appears to be turned off. To wake up the system, just press down once on the TALK button of the Technologist Remote Control and wait for the system to synchronize completely. Remember to always communicate with the patient to adjust the headset audio volume. Always start at a low setting progressively to a higher setting until the patient can hear you clearly. Below is an illustration how to connect the control room components:




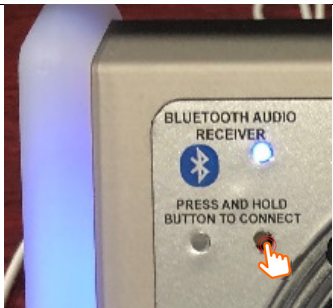
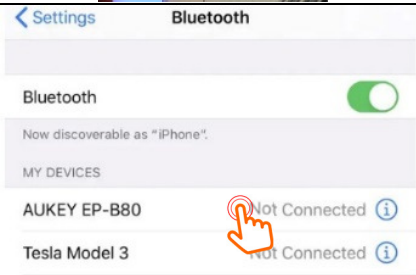
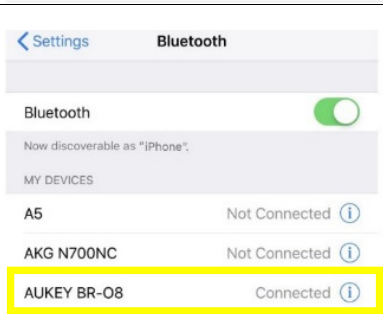
(Typical Control Room Setup)

## 6. Operation

### 6.1. Serene Sound Controller

#### Bluetooth Audio connection

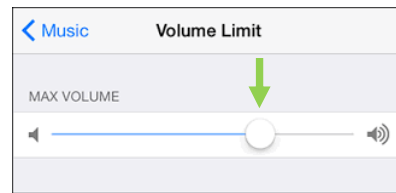
Serene Sound Controller Bluetooth audio connection to connect to any Bluetooth audio source device like a tablet, cell phone, iPad or some of the newer laptop/desktop computers.

Step/Description	Photo (example)
<p>On the Bluetooth audio source device, go to the appropriate menu section for Bluetooth and Turn on the Bluetooth. The controller can only connect to one Bluetooth device at a time. If the Bluetooth cannot pair or connect is due to another device already paired with the Controller.</p>	
<p>The Bluetooth sync button is on the front panel near top left corner of the speaker. Press and hold the button until the two lights start flashing and release.</p>	
<p>The two lights on the Bluetooth pairing will light up and blink until Bluetooth device is paired/synced with the Serene Sound Controller. Signal pairing is indicated with the lit up blue light and solid.</p>	
<p>At this point, the Serene Sound Controller is pairing and should pop up on your Bluetooth Audio device sources as "AUKEY". Select "AUKEY" to pair with the Serene Sound Controller.</p>	
<p>Once Connected the Bluetooth Audio source should state connected next to the title "AUKEY"</p>	

# 6

# Operation

Once music is playing on Bluetooth source device RTC recommends setting the volume to between 1/2 to 3/4 high and then adjust the volume accordingly on the Tech remote control to adjust patient headset and AV Console (Controller) operator volume settings.



It is possible that the Serene Sound Controller can lose sync/pairing with the Bluetooth device when the unit goes to sleep.

## 6.2. Touch Screen Tablet

Resonance Technology, Inc offers a touch screen tablet in order to enable the user to connect to the facility wi-fi and access online streaming such as Iheart Radio or YouTube. Please be advise, Resonance Technology, Inc. does not offer any internet services or any subscriptions on online platforms.



## 6.3. Technologist Remote Control



**Tech Remote built-in microphone allows the technologist to talk to patient**

**Operator Adjustment wheels (#1, #2, #3) allow technologist to make audio volume settings adjustments to the audio headset, microphone and control room audio.**

**Menu wheel (#4) is used to scroll and find desired system features**

**The TALK button allows the technologist to initiate a two-way communication link with the patient**

**Wheel #1** - Controls the patient headset audio level.

Scrolling the wheel up increases the headset volume.

Scrolling the wheel down decreases the headset volume.

**Wheel #2** - Controls the Patient Microphone audio level.

Scrolling the wheel up increases the patient microphone volume.

Scrolling the wheel down decreases the patient microphone volume.

**Wheel #3** - Controls the system audio level.

Scrolling the wheel up increases the control room volume.

Scrolling the wheel down decreases the control room volume.

**Wheel #4** - Controls the system settings:

Pressing down on this wheel activates the system menu. Scrolling the wheel up or down rotates through the system functions. To set the patient microphone in AUTO or MANUAL mode use the menu options to select the desired mode. When in the MANUAL mode you must press the talk button to activate microphone. To adjust your technologist microphone volume built into the technologist remote unit, simply press and hold the TALK button and at the same time scroll the wheel #1 to set the PTT volume to about 60 to 70. If your voice sounds too loud in the patient's audio headset lower the PTT. Make sure all cables have been connected securely into the Transducer and that the components do not impede walkways. Ensure that the Transducer is not placed directly in front of the magnet bore or directly under the bed. Before placing the headset on the patient, make sure that the technologist microphone volume has been set to a comfortable level for the patient. Place the audio headset over the patient's ears and adjust the headband. If necessary, position the headset microphone about one cm. away from the patient's mouth.

**Technologist Remote Control with built-in microphone volume adjustment** – Push and hold the talk button then scroll up or down the adjustment wheel #1. This adjustment is to change the tech remote built-in microphone volume that the patient will hear during the two-way channel communication.

**Please Note:** To reset the system to the original Factory Default Settings, perform the following:

1. Adjustment Wheel #1 - Set Patient Audio to **1**
2. Adjustment Wheel #2 - Set Patient Microphone to **2**
3. Adjustment Wheel #3 - Set System Audio to **3**
4. Press and hold the **Talk** button for **15 seconds**. Wait for the display to count down to zero.
5. Release the **TALK** button and wait for the system to re-synchronize. Both the CinemaVision Controller and Transducer front panel logo lights should have color lights rotating once synchronized.

# 6

# Operation

## 6.4. Patient Setup

### 6.4.1. Overview

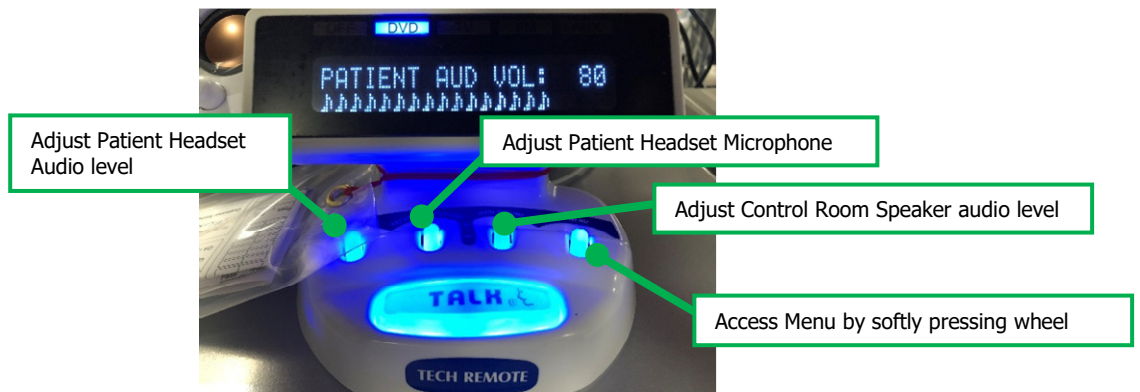
Make sure all cables have been connected securely to the Transducer in the Magnet Room and that the system components do not impede any walkways. Ensure that the Transducer is not placed directly in front of the bore of the magnet. Before placing the Headphones on the patient, make sure that the microphone audio levels on the Control Room Tech Remote Control have been set to a comfortable level. (See System Operation section on Technologist Remote for level adjustments) Place the Headphones over the patient's ears and eyes and adjust the headband (**NOTE: the pivot should not be rotated more than 15°**). Position the headset microphone about 1 inch (2.5 cm.) away from the patient's mouth. Your patient is now ready for your scan procedure.



Warning: Although all of the audio signals present in the Serene Sound system have absolutely no high-voltages that might harm the patient, Resonance Technology, Inc. recommends to never touch the patient when handling any powered component of the Serene Sound system including the Transducer.




### 6.4.2. Audio Setup

Make sure the system level output on the Tech Remote Control is set to approximately 70-80 level. For safety, always notify the patient when making volume level adjustments to the patient audio headset.



- **(Optional) Headset Audio Adjustment knob**

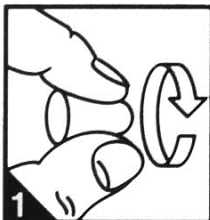
The Slim Softshell "Y" adapter has been integrated with a feature "Volume Adjustment".

<p>Press and hold RTC logo [center button] to activate the Alert Mode</p>	
<p>Rotate the black knob [around the center button] clockwise to increase the volume in the audio headset.</p>	
<p>Rotate the black knob [around the center button] counterclockwise to decrease the volume in the audio headset.</p>	

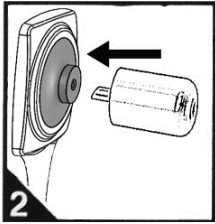
#### 6.4.3. Inserting the Earbud tips

The Earbud headset ear tips were designed to help block out the noise of the MR gradient noise and help the headset stay in place.

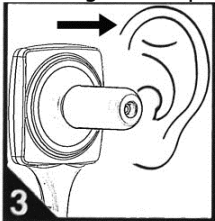
Step 1: With clean hands, slowly roll plug into a thin, crease-free cylinder.





Step 2: While compressed, insert plug onto Earbud Headset by inserting the plastic tube from the ear tip into the housing of the Earbud headset.



Step 3: After ear tip is inserted into the headset frame, place mounted ear plugs into ear and hold in place while ear tip foam begins to expand.



If the Earbud headset ear tips do not want to stay in place. The Earbud yellow round foam disc or headband can be used to hold the earbud in place.

Earbud with Headband	Earbud with Yellow foam inserts
	
<p>The patient can freely move around with headset on.</p>	<p>The foam will help when the earbud and patients head are in the head coil.</p>

Contact RTC in order to Reorder Yellow ear tips PN: RTC-650-069-1521-X01. RTC recommends inspecting product before use. Discard/throw away ear plugs if they are damaged. Ear tips are intended for single use only. Use new pair of ear tips with each patient. Do not use ear tip if they are soiled or dirty. Do not cut ear plugs.

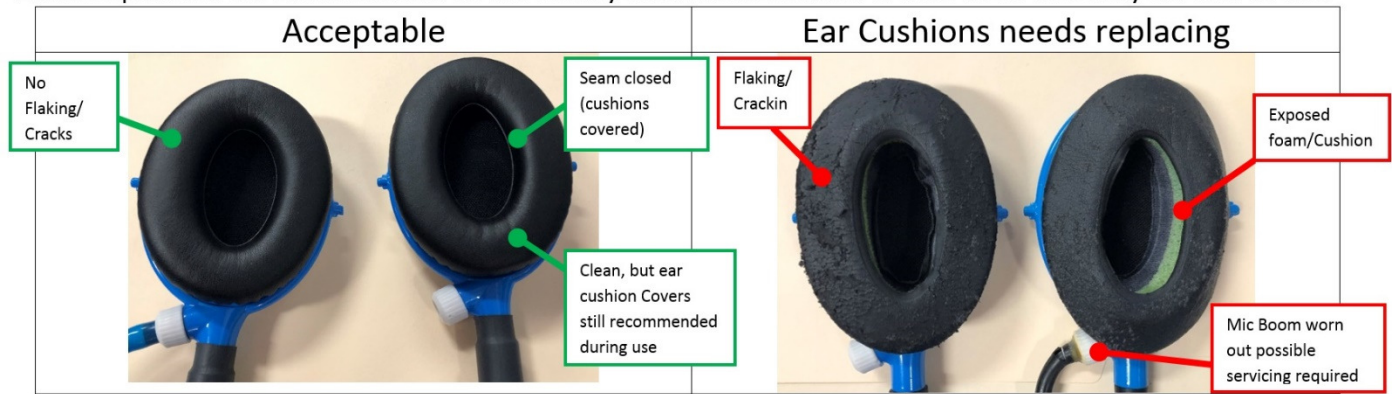
### 6.5. Cleaning

For cleaning and disinfecting purposes, Resonance Technology, Inc. recommends using non-corrosive disinfectant (if need be: Isopropyl Alcohol based) cleaning wipes on the contact parts the audio headset components. After cleaning, let dry until further use. Daily cleaning of these items is recommended. Visual Inspection is recommended before each use and after some wear and tear on heavily used items like the headset ear cushions, Resonance Technology, Inc. recommends order replacements to keep the devices safe for use on each patient.

# 6

# Operation

Visual Inspections are recommended on the heavily used items: Headset & Visor to be sure they are safe to use.



## 7. Troubleshooting

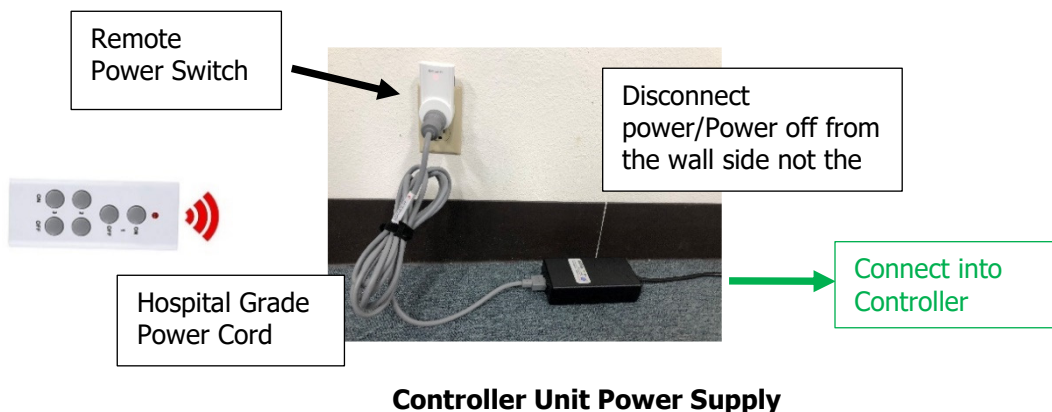
If the problem arises inside the Magnet Room area:

Symptom	Verify
No Synchronization	The fiber optics is in the right color-coded position on the Controller and Transducer.
No Audio	Check the audio source for proper connection and audio volume level. Verify the headset is properly seated in the Transducer.
Audio working intermittently	Check if the Transducer stays on. If the logo turns off and on and does not sync properly. Check the Fiber and power connections are secure. Then see if the Transducer power Supply LED indicators are all on.
Microphone not working properly.	On the Technologist Remote Control, check comm mode is auto or manual. Check microphone volume setting.
System Reboots	Unplug the power supply from the A/C outlet. Unplug the Controller; turn off the power supply for the Transducer.
If the system hangs up* or fails to respond to the Technologist Remote Control commands.	Power down the Controller for approximately 10 seconds and then power up again.
If the system still does not respond.	Power down the complete system for approximately 10 seconds, then power up the Controller first in the Control Room, then power up the Transducer in the Magnet Room. Wait for the logo lights to rotate on the Transducer and then use the system normally.

Note: When disconnecting power to the Controller, always disconnect the AC power cord that connects into the Controller Power Supply. Never disconnect the DC cable connector from the Controller. To re-connect power to the Transducer, just re-connect the AC power cord.

### Power Reset Switch

Resonance Technology Inc offers a Remote Power Switch to enable the user to turn the power to the power supply ON/OFF. This device can be used on the Controller or Transducer Power Supply. One remote can be programmed to control two or more Wall Power Switch devices.



## Power Reset Switch

Resonance Technology Inc offers a Remote Power Switch to enable the user to turn the power to the power supply ON/OFF. This device can be used on the Controller or Transducer Power Supply. One remote can be programmed to control two or more Wall Power Switch devices.

### Technical Problems:

- If the system hangs up or does not respond to Remote Control or Controller commands, power down the complete system, leave off for approximately 10 seconds, then power up again.
- If the system still does not respond, check to see if the Transducer and Controller is syncing\* with one another.  
\*Syncing is when the logo on the Transducer and the controller lights up and properly rotates clockwise.
- For more information, visit our YouTube page search "Resonance Technology Inc." to access our home page in order to view more how-to and troubleshooting guides.

If the system still does not respond, please contact the Technical Support department at Resonance Technology, Inc. for assistance.

## 7.1. Support Information

If you have any questions regarding the CinemaVision system use or installation, please don't hesitate to call Resonance Technology, Inc. Customer Service Department. Service and technical support staff may be reached Monday through Friday 8 A.M. to 5 P.M., Pacific Standard Time (USA) at +1 (818) 882-1997, or e-mail to [support@mrivideo.com](mailto:support@mrivideo.com).

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***Resonance Technology, Inc. Product Recycling Program:***



**3-R** REDUCE  
REUSE  
RECYCLE

*Resonance Technology Inc. actively supports the protection of the environment by efficiently recycling all our electronic products. Our everyday pollution prevention activities reduce the need for electronic waste to go into landfills. At Resonance Technology Inc. we are committed to our customers, our communities and to everyone's environment. In light of the above, Resonance Technology, Inc. recommends that all our customers return their undesired, obsolete, or unused Resonance Technology, Inc. equipment to the following address for recycling:*

*Resonance Technology, Inc.  
Attn: Product Recycling Program  
18121 Parthenia Street  
Northridge, CA. 91325*

**Notes**