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Operations and Installation Manual
Vitalinq™ Communication System
Model 94A-07

G3200UV R9

Symbols and Conventions

This icon identifies cautions: information that should be read before use to prevent damage to the Vitalinq™ system.

Trademark and Other Information

Quick-BrowZer is a trademark of Sony Corporation.

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Vitalinq™ System Specifications

Input Ratings: 100-220V~
50-60Hz
1.6A MAX

Operating Temperature: 25˚C (77˚F)

Stereo Power Amplifier Specifications

Output: Speaker outputs

Speaker impedance: Only use with provided 8 ohm speakers

Maximum power output: 8W × 4 (with Vis-A-Vis provided 8 ohm speakers)

For Your Safety

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. 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.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12. Use only with 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.
13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. 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.
15. To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.
16. Warning! Excessive sound pressure from earphones and headphones can cause hearing loss.

Table of Contents

We would like to hear from you. Our phone number is 1-800-319-6014, or email us at support@vitalinq.com. Please visit us on the web at www.vitalinq.com.

We are committed to helping you to solve any problems or answer any questions you may have with the operation or installation of your Vitalinq.

Please call and give us the name and address of the hospital, cath lab phone number and name of the cath lab director or manager so that we can better serve them. This information can also be submitted via our web site at www.vitalinq.com.

An electronic version of this manual can be obtained at our web site.

Thank you for your help.

1 VITALINQ™ INTRODUCTION

Vitalinq™ is a communication system designed to meet the specific needs that arise during diagnostic and interventional procedures. Vitalinq™ enables physicians to have continuous two-way conversation with control room operators throughout diagnostic and catheterization procedures. Capable of picking up conversations in a normal tone of voice, the Vitalinq™ allows control room operators to respond immediately to physicians requests. As vital signs are monitored by the control room operator, the physician can receive up-to-the-moment communication on the patient's condition.

The Vitalinq™ communication system provides speakers and microphones for the procedure room (LAB) and control room (TEK). The speakers are mounted in the ceiling. Control room operators have the option of using the overhead speaker and desk microphone, or a headset. The procedure room microphone is attached to the video monitor (or monitor cluster) opposite the physician, or optionally, integrated into the ceiling by replacing a standard ceiling tile. The unique construction of our procedure room microphones contribute to Vitalinq's high intelligibility, even within the acoustically active space of a full-functioning lab. Designed to minimize the loss of articulation by reducing the potential echo path, Vitalinq™ gathers and transmits speech in a highly efficient manner.

Complete and comprehensive, the Vitalinq™ removes the need for talk-listen switching, eliminating the risks posed by breaks in conversation. Physicians and control room operators may converse without interruption.

Integrated into the console but operationally separate from the communication system is a stereo system capable of playing music from a variety of sources. Sources include AM/FM radio (subject to the limitations imposed by building shielding effects), compact discs and music from external devices such as a smart phone, satellite radio, flash drive or any device capable of output to a mini-stereo or USB jack.

We strive to provide the most flexible system available. To learn more about Vitalinq's advanced capabilities, please contact us at 1-800-319-6014 or by email at info@vitalinq.com.

Advanced capabilities and options include:

- Wireless headset to replace corded headset
- Auxiliary wireless headsets are available for scrub or circulator nurses to provide discreet communication with the control room operator
- Remote connections for headsets and desk microphones
- Support for multiple headsets / desk microphones
- Telephone interconnectability

Contact us for details.

1.1 System layout

Coaxial cable from monitor mic to "Lab Mic/MM5" RCA jack on console. Cable must be run through monitor boom arm/curtain. Alternative connection methods are possible. SEE INSTALLATION MANUAL.

PROCEDURE ROOM

Monitor Array Boom

Left Stereo Speaker

Monitor Microphone

Communication Speaker

Monitor Array (or single monitor)

Exam Table

14' WHITE Ethernet Cables

Right Stereo Speaker

25' or 50' WHITE Ethernet Cable

Right Stereo Speaker

Communication Speaker

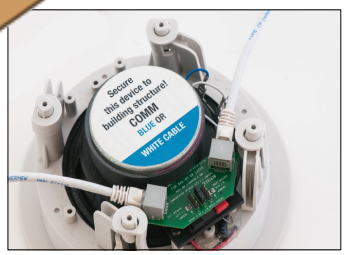
14' BLUE Ethernet Cables

25' BLUE Ethernet Cable

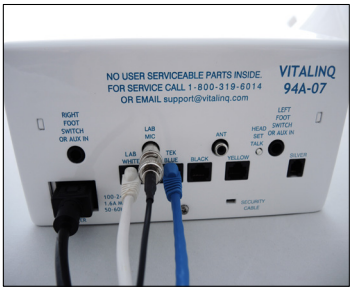
CONTROL ROOM

Left Stereo Speaker

Vitalinq Console



Typical connection of ethernet cables to speaker



Connection of ethernet, coaxial and power cables to console

2 SETTING UP THE VITALINQ™ SYSTEM

2.1 Description of the VITALINQ™ system

Refer to Section 6 "INSTALLATION" for installation instructions.

The Vitalinq™ is very easy to use and versatile. The standard system is composed of a pair of music speakers and a communication speaker in both the procedure and control rooms. The speakers are mounted overhead in the ceiling. The procedure room also has a microphone mounted to the monitor (or monitor array) opposite the physician. The control room is where the console is located and is where all devices are ultimately connected. Also in the control room and plugged into the console, are a desk microphone and a headset. One desk microphone and one headset are included with each system.

On the front of the console are controls for the music system and controls for talking and listening to the procedure room. At the rear of the console are several jacks and a thumbnail adjustable control for the headset talk volume. Words in BLUE throughout this document refer to labels on the console.

The LISTEN control and HEADSET jack on each side of the front of the console work together. There is an in-line mute switch provided with each headset to mute the headset microphone when desired. If preferred, a foot switch can be used instead of the in-line mute switch. Contact Customer Support if you would prefer to use a foot switch.

The volume of the headset earpiece is adjusted using the LISTEN volume control located adjacent to the HEADSET jack. The volume for the procedure room communication speaker (used to transmit speech from the control room) is controlled by the HEADSET TALK VOLUME switch located on the rear of the console.

The CONTROL ROOM LOUDSPEAKER region at the center on the front of the console is for control of the desk microphone and ceiling speaker in the control room. In this section is an overhead LISTEN VOLUME control for controlling the volume of the control room communication speaker. The BUTTON and TALK VOLUME in this area are only used during setup.

The LED on the front of the console illuminates when there is power to the system.

2.2 Initial settings

Turn the headset LISTEN controls to the 12:00 position. Turn the overhead control room LISTEN VOLUME to OFF. Plug power cord into 120 volt AC outlet. The LED on the front of console will illuminate as soon as power is available.

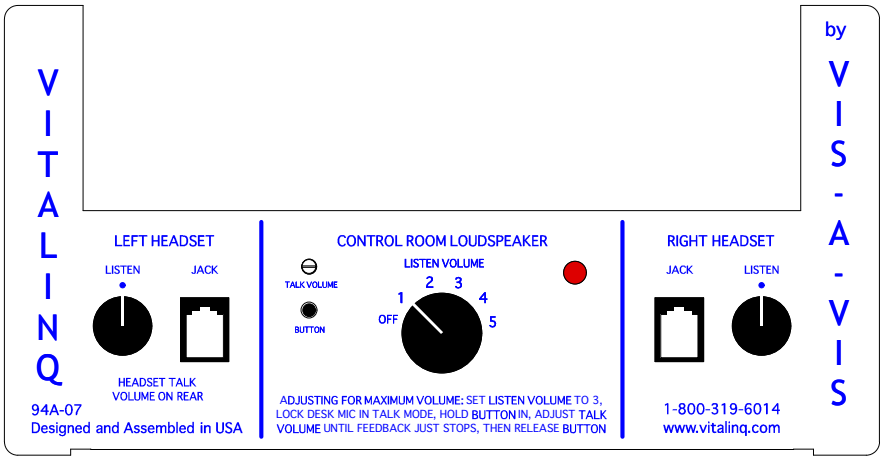
2.3 Adjusting the headset

Put on headset and have someone go into procedure room and speak. The LISTEN knob next to the headset controls the volume of what you hear through the headset. HEADSET TALK on rear of console controls volume that procedure room hears. This typically only needs to be set once. The headset microphone tube telescopes. Move microphone tube tip close to the corner of your mouth. Use the in-line mute switch located between the headset cable and the headset coil cord to mute the headset microphone as needed.

2.4 Adjusting desk microphone and speaker sensitivity

Temporarily unplug the headset. The CONTROL ROOM LOUDSPEAKER controls are at the lower front of the console between the HEADSET jacks. Turn the LISTEN VOLUME switch to 3 and listen to the procedure room. You should be able to hear background noise. Place the switch on the side of the microphone in the LOCK position and touch the silent operation touch switch on the front of the microphone base. The LED indicator on the microphone base will illuminate. Turn the TALK VOLUME control clockwise while pressing the BUTTON located below it until you just barely hear feedback (a squeal). Release the BUTTON. The TALK volume level is now set. As you switch the LISTEN VOLUME louder or softer, the sound in the lab varies by an inverse amount to prevent feedback. When finished, unlock the microphone by touching the selector switch. Place the mode selector on the microphone base in either the LOCK or TALK position. Plug the headset back into the console.

3 VITALINQ™ OPERATING INSTRUCTIONS



3.1 Initial operation of the headset

BLUE words are labels on console. Place the LISTEN VOLUME control into the OFF position. (This turns off the overhead speaker in the control room.) Turn the headset LISTEN control to the middle of its rotation. Put the headset on. The headband slides in and out of the ear-cup. The headset microphone tube telescopes. Adjust the headset for comfort and move the microphone tube tip so that it is near the corner of your mouth. Listen to someone in the procedure room.

You will hear the people in the procedure room whether the in-line mute switch is in the mute position or not. Adjust the headset LISTEN volume for a comfortable level by means of the volume control labeled LISTEN. The left headset LISTEN volume control is for a headset plugged into the left jack and the right one controls the right jack. The white slotted shaft on the rear of the console by the left foot switch jack labeled HEADSET TALK controls the talk volume for both the left and right headsets.

3.2 Operation of overhead speaker and desk microphone

The following steps are not required if only a headset is to be used and the desk microphone and overhead communication speaker are not being used. This is often the case in shared control rooms.

Adjust the LISTEN VOLUME control (large knob in center) to a comfortable level for people in the control room. The desk microphone has three user selectable modes accessed through a switch on the side of the microphone base. The modes are TALK, LOCK and MUTE. In TALK mode, holding down the silent operation touch switch turns on the microphone (Push-To-Talk). When the microphone is active, the LED ring in the housing will illuminate.

If desired, the microphone may be locked in the always on talk mode by placing the switch in the LOCK position. In this mode, when you tap the silent operation touch switch on the microphone base, the microphone switches between locked on (LED illuminates) and locked off.

The desk microphone can also be used in the MUTE mode. In this mode, when you hold down the silent operation touch switch on the microphone base it mutes the microphone (Push-To-Mute).

If the touch switch appears to be malfunctioning, unplug the cable from the microphone base and reconnect it to reset the switch.

If you hear a hum or squeal, the TALK VOLUME control may be turned too far clockwise; turn it down using your thumbnail or small screwdriver, as described in Section 2.4. The TALK VOLUME may be adjusted by following the directions on the console and Section 2.4.

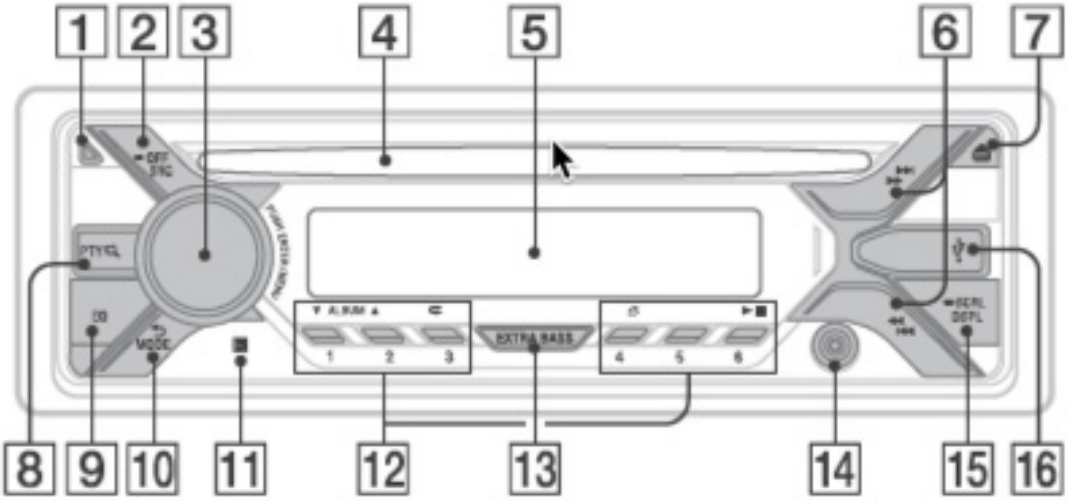
When the microphone is active, blue LED indicators illuminate on the base.

Large On/Off silent operation touch switch is used for three user selectable modes; Locked ON/OFF, Push-To-Talk or Push-To-Mute.

4 MUSIC SYSTEM OPERATION

4.1 Location of controls and basic operations

This section contains instructions on the location of controls and basic operations.



1 **Front panel release button - LOCKED**

2 **SRC (source)**
Press to turn on the power.
Press to change the source.
Press and hold for 1 second to turn the source off and display the clock.
Press and hold for more than 2 seconds to turn off the power and the display.

3 **CONTROL DIAL**
Rotate to adjust volume.

PUSH ENTER
Enter the selected item.

MENU
Open the setup menu.

4 **Disc slot**
Insert the disc (label side up), playback starts.

5 **Display window**

6 **SEEK +/– buttons**

Radio:
To tune in stations automatically (press); find a station manually (press and hold).

CD/USB:
To skip tracks (press); skip tracks continuously (press, then press again within about 2 seconds and hold); reverse/fast-forward a track (press and hold).

7 **⏏ (eject) button**
To eject the disc.

8 **PTY (program type)**
Select PTY in RDS.

🔍 (BROWSE) button
To enter the browse mode during playback.

9 **EQ (equalizer)**
Select an equalizer curve

10 **↩ (BACK) / MODE button**
Press to return to the previous display; select the radio band (FM/AM)

11 **Receptor for remote commander - NOT USED**

12 **Number buttons (1 to 6)**

Radio:
To receive stored stations (press); store stations (press and hold).

CD/USB:
ALBUM ▼/▲
Skip an album (press); skip albums continuously (press and hold).
(Not available when a USB device in Android mode or iPod is connected.)
↳ (Repeat)
Not available when a USB device in Android mode or iPod is connected.
🔁 (Shuffle)
Not available when a USB device in Android mode or iPod is connected.
►II (Play/Pause)

To pause playback. Press again to resume playback.

13 **EXTRA BASS**
Reinforces bass sound in synchronization with the volume level. Press to change the EXTRA BASS setting: “1”, “2”, “OFF”.

14 **AUX input jack**

15 **DSPL (Display)**
Press to change display items.
SCRL
Press and hold to scroll a display item.

16 **USB port**

4.2 Getting started

4.2.1 Setting the display language

If the power goes out, the unit will reset and the display language setting display appears.

1 **Press ENTER (press in control dial) while "SET LANGUAGE" is displayed.**

2 **Rotate the control dial to select "ENGLISH" or "SPANISH", then press it.**
The setting is complete and the clock is displayed.

This setting can also be configured in the general setup menu.

4.2.2 Music system power

OFF/SRC (source) button

1 **Press and hold to turn on the power/change the source (Radio/CD/USB/AUX).**

2 **Press and hold for 1 second to turn off the power and display the clock.**

3 **Press and hold for more than 2 seconds to turn off the power and display.**

4.2.3 Canceling the DEMO mode

You can cancel the demonstration display which appears while this unit is turned off.

1 **Press MENU, rotate the control dial until "GENERAL" appears, then press it.**

2 **Rotate the control dial until "SET DEMO" appears, then press it.**

3 **Rotate the control dial to select "SET DEMO-OFF," then press it.**
The setting is complete.

4 **Press ⮌(BACK) twice.**
The display returns to normal reception/ play mode.

4.2.4 Setting the clock

The clock uses a 12-hour digital indication.

1 **Press MENU, rotate the control dial to select "GENERAL", then press it.**

2 **Rotate the control dial to select "SET CLOCK-ADJ" , then press it.**
The hour indication flashes.

3 **Rotate the control dial to set the hour and minute.**
To move the digital indication, press SEEK +/–.

4 **After setting the minute, press MENU .**
The setup is complete and the clock starts. To display the clock, press DSPL.

4.2.5 Additional setup items

You can set items in GENERAL, SOUND and DISPLAY setup catagories.

1 **Press MENU.**

2 **Rotate the control dial to select the setup category, then press it.**
The items that can be set differ depending on the source and settings.

3 **Rotate the control dial to select the options, then press it.**

4 **Press ⮌ (BACK) to return to the previous display.**

The following items can be set depending on the source and setting:

GENERAL

LANGUAGE
Changes the display language: “English”, “Spanish”.

DEMO (demonstration)
Activates the demonstation: “ON”, “OFF”.

CLOCK-ADJ (clock adjust)

TUNER-STP: NOT USED

CAUT ALM: NOT USED

BEEP
Activates the beep sound: “ON,” “OFF”.

AUTO OFF
Shuts off automatically after a desired time when the unit is turned off: “ON,” (30 minutes), “OFF”.

USB MODE
Changes the USB mode: “ANDROID”, “MSC/MTP” (Available on ly when the USB source is selected.)

CT (clock time)
Activiates the CT function: “ON”, “OFF”.

BTM: NOT USED

SOUND

EQ10 PRESET
Selects an equalizer curve from 10 Equalizer curves or off:
“OFF”, “R AND B”, “ROCK”, “POP”, “HIP-HOP”, “ELECTRONICA”, “JAZZ”, “REGUETON”, “SALSA”, “KARAOKE”, “CUSTOM”, “OFF”.
The equalizer curve setting can be memorized for each source.

EQ10 CUSTOM
Sets [CUSTOM] of EQ10.
Setting the equalizer curve: [BAND1] 32 Hz, [BAND2] 63 Hz, [BAND3] 125 Hz, [BAND4] 250 Hz, [BAND5] 500 Hz, [BAND6] 1 kHz, [BAND7] 2 kHz, [BAND8] 4 kHz, [BAND9] 8 kHz, [BAND10] 16 kHz.
The volume level is adjustable in 1 dB steps, from -6 dB to +6 dB.

BALANCE
Adjusts the sound balance: “RIGHT-15”– “CENTER” – “LEFT-15”.

FADER
Adjusts the relative level between rooms: “FRONT-15” – “CENTER” – “REAR-15”.

S. WOOFER (Subwoofer Level) **- NOT USED**

HPF FREQ (high pass filter frequency)
Selects the front/rear speaker cut-off frequency: [OFF], [80Hz], [100Hz], [120Hz].

AUX VOL (AUX Volume Level)
Adjusts the volume level for each connected auxiliary equipment: “+18dB” – “0 dB” – “-8 dB”. This setting negates the need to adjust the volume level between sources. Available only in AUX mode.

DISPLAY

BLK OUT (black out)
Turns off the illumination automatically if no operation is performed for 5 seconds when any source is selected: [ON], [OFF].
To turn the light back on, press any button on the unit.

DIMMER
Changes the display brightness; “ON”, “OFF”.

BRIGHTNESS
Adjusts the display brightness. The brightness level is adjustable: [1] – [10].

BUTTON-C (button color)
Sets a preset color or customized color for the buttons.

DSPL-C (display color)
Sets a preset color or customized color for the display.

SND SYNC (sound synchronization)
Activates the synchronization of the illumination with the sound: [ON], [OFF].

4.3 Radio

4.3.1 Storing and receiving stations

Tuning

1 **Press MODE to change the band (FM1, FM2, FM3, AM1 or AM2)**

2 **Perform tuning.**

To tune manually
Press and hold SEEK +/- to locate the approximate frequency, then press SEEK +/- repeatedly to fine adjust to the desired frequency.

To tune automatically
Press SEEK +/-. Scanning stops when the unit receives a station.

Storing manually

1 **While receiving the station that you want to store, press and hold a number button (1 to 6) until "MEM" appears.**

Receiving the stored stations

1 **Select the band, then press a number button (1 to 6).**

4.3.2 RDS

FM stations with Radio Data System (RDS) service send inaudible digital information along with the regular radio program signal.

Notes

- Depending on the country/region, not all RDS functions may be available.
- RDS will not work if the signal strength is too weak, or if the station you are tuned to is not transmitting RDS data.

Selecting PTY (Program Types)

Use PTY to display or search for a desired program type.

1 **Press PTY during FM reception.**
The current program type name appears if the station is transmitting PTY data.

2 **Rotate the control dial until the desired program type appears, then press it.**
The unit starts to search for a station broadcasting the selected program type.

Type of programs:

NEWS, **AFFAIRS** (Current Affairs), **INFO**, **SPORT**, **EDUCATE**, **DRAMA**, **CULTURE**, **SCIENCE**, **VARIED**, **POM M** (Pop Music), **ROCK M** (Rock Music), **EASY M** (M.O.R. Music), **Light M** (Light Classical), **CLASSICS** (Serious Classical), **OTHER M** (Other Music), **WEATHER**, **FINANCE**, **CHILDREN** (Children's Program), **SOCIAL** (Social Affairs), **RELIGION**, **PHONE IN**, **TRAVEL**, **LEISURE**, **JAZZ**, **COUNTRY**, **NATION M** (National Music), **OLDIES**, **FOLK M** (Folk Music), **DOCUMENT** (Documentary)

Note
You may receive a different radio program from the one you select.

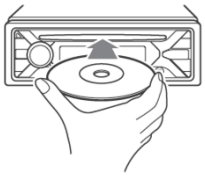
Setting CT (Clock Time)

The CT data from the RDS transmission sets the clock.

1 Set “CT-ON” in setup “GENERAL”.

4.4 Playback

4.4.1 Playing a disc



1 Insert the disc (label side up).
Playback starts automatically.

To eject the disc, press ⏏ .

Changing display items

Press DSPL (display).

Displayed items may differ depending on the disc type, recording format and settings.

4.4.2 Playing a USB device (iPhone, iPod, Android, Flash Drive)

When using a cellular phone for playback or streaming of music, place the phone a minimum of 2 feet from the console to prevent the possibility of cell phone RF bursts creating interference over the intercom system.

In these Operating Instructions, “iPod” is used as a general reference for the iPod functions on an iPod and iPhone, unless otherwise specified by the text or illustrations.

AOA (Android Open Accessory) 2.0, MSC (Mass Storage Class) and MTP (Media Transfer Protocol) type USB devices (USB flash drive, digital media player, Android smartphone) compliant with the USB standard can be used. Depending on the device, the Android mode or MSC/MTP mode can be selected on the unit.

Some media players or Android smartphones may require setting to MTP mode.

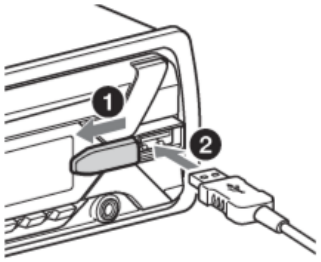
1 Turn down the volume on the unit.

2 Open the USB cover, then connect the USB device to the USB port.
Playback starts.

If a USB device is already connected, to start playback, press SRC repeatedly until “USB” appears.

To stop playback, press and hold OFF for 1 second.

To remove the USB device, stop the USB playback, then remove the USB device.



Notes
Caution for iPhone: When you connect an iPhone via USB, phone call volume is controlled by the iPhone, not the unit. Do not inadvertently increase the volume on the unit during a call, as a sudden loud sound may result when the call ends.
Do not use USB devices so large or heavy that they may cause a loose connection.

Note
Some letters stored in iPod may not be displayed correctly.

4.5 Searching and playing tracks

4.5.1 Repeat play and shuffle play

1 **During playback, press (repeat) or (shuffle) repeatedly to select the desired play mode.**
Playback in selected play mode may take time to start.
Available play modes differ depending on the selected sound source.

4.5.2 Searching a track by name — Quick-BrowZer™

Not available when a USB device in Android mode or iPod is connected.

1 **During CD or USB playback, press (BROWSE)* to display the list of search categories.**
When the track list appears, press (back) repeatedly to display the desired search category.

* During USB playback, press (BROWSE) for more than 2 seconds to directly return to the beginning of the category list (USB only).

2 **Rotate the control dial to select the desired search category, then press it to confirm.**

3 **Repeat step 2 to search the desired track.**
Playback starts.

To exit the Quick-BrowZer mode, press (BROWSE).

Searching by skip items — Jump mode

Not available when a USB device in Android mode or iPod is connected.

1 **Press (BROWSE).**

2 **Press SEEK +.**

2 **Rotate the control dial to select the item.**
The list is skipped in steps of 10% of the total number of items in the list.

3 **Press ENTER to return to the Quick-BrowZer mode.**
The selected item appears.

4 **Rotate the control dial to select the desired item and press it.**
Playback starts

4.6 Auxiliary audio equipment

By connecting an optional portable audio device to the AUX input jack (stereo mini jack) on the unit and then simply selecting the source, you can listen on your car speakers.

When using a cellular phone for playback or streaming of music, place the phone a minimum of 2 feet from the console to prevent the possibility of cell phone RF bursts creating interference over the intercom system.

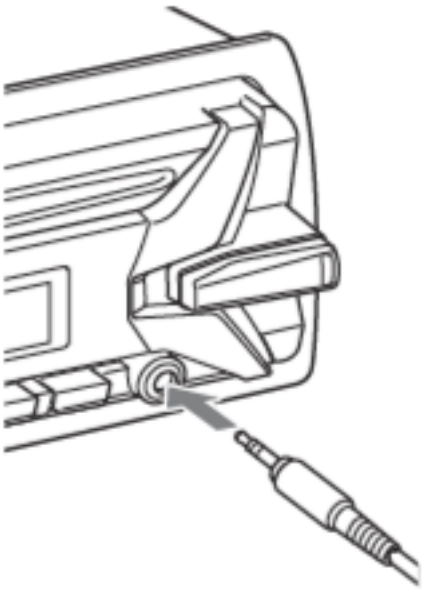
4.6.1 Connecting the portable audio device

1 **Turn off the portable audio device.**

2 **Turn down the volume on the unit.**

3 **Connect the portable audio device to AUX input jack (stereo mini jack) on the unit with a connecting cord (not supplied)*.**

* Be sure to use a straight type plug.



4 **Press SRC to select (AUX).**

To match the volume level of the connected device to other sources

Start playback of the portable audio device at a moderate volume, and set your usual listening volume on the unit.

Press MENU, the select (SOUND) (AUX VOL).

4.7 Additional Information

4.7.1 Notes on discs

- Do not expose discs to direct sunlight or heat sources such as hot air ducts, nor leave it in a car parked in direct sunlight.
- Before playing, wipe the discs with a cleaning cloth from the center out. Do not use solvents such as benzine, thinner, commercially available cleaners.
- This unit is designed to play back discs that conform to the Compact Disc (CD) standard. Dual Discs and some of the music discs encoded with copyright protection technologies do not conform to the Compact Disc (CD) standard, therefore, these discs may not be playable by this unit.

Discs that this unit CANNOT play

- Discs with labels, stickers, or sticky tape or paper attached. Doing so may cause a malfunction, or may ruin the disc.
- Discs with non-standard shapes (e.g., heart, square, star). Attempting to do so may damage the unit.
- 8 cm (3 1/4 in) discs.

Notes on CD-R/CD-RW discs

- The maximum number of: (CD-R/CD-RW only)
  - » folders (albums): 150 (including root folder)
  - » files (tracks) and folders: 300 (may less than 300 if folder/file names contain many characters)
  - » displayable characters for a folder/file name: 32 (Joliet)/64 (Romeo)
- If the multi-session disc begins with a CD-DA session, it is recognized as a CD-DA disc, and other sessions are not played back.
- **Discs that this unit CANNOT play**
  - » CD-R/CD-RW of poor recording quality.
  - » CD-R/CD-RW recorded with an incompatible recording device.
  - » CD-R/CD-RW which is finalized incorrectly.
  - » CD-R/CD-RW other than those recorded in music CD format or MP3 format conforming to ISO9660 Level 1/Level 2, Joliet/Romeo or multi-session.

4.7.2 Safety precautions

WARNING

⚠ To prevent injury or fire, take the following precautions:

- To prevent a short circuit, never put or leave any metallic objects (such as coins or metal tools) inside the unit.
- If the unit starts to emit smoke or strange smells, turn off the power immediately and call us.
- Be careful not to drop the unit or subject it to strong shock. The unit may break or crack because it contains glass parts.
- Do not touch the liquid crystal fluid if the LCD is damaged or broken due to shock. The liquid crystal fluid may be dangerous to your heath or even fatal. If the liquid crystal fluid from the LCD contacts your body or clothing, wash it off with soap immediately.

CAUTION

⚠ To prevent damage to the machine, note the following:

Do not install the unit in a spot exposed to direct sunlight or excessive heat or humidity. Also avoid places with too much dust or the possibility of water splashing.

⚠ Do Not Load CDs with attached labels

If you try to load a CD with an attached label, it may jam and damage the unit.

The following malfunctions may result from using such discs:

- Inability to eject a disc (due to a label or sticker peeling off and jamming the eject mechanism).
- Inability to read audio data correctly (e.g., playback skipping, or no playback) due to heat shrinking of a sticker or label causing a disc to warp.

NOTE:

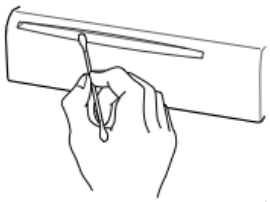
The illustrations of the display and the panel appearing in this manual are examples used to explain more clearly how the controls are used. Therefore, what appears on the display in the illustrations may differ from what appears on the display on the actual equipment, and some of the illustrations on the display may represent something impossible in actual operation.

Cleaning the Unit

If the faceplate of this unit is stained, wipe it with a dry soft cloth. If the faceplate is stained badly, wipe the stain off with a cloth moistened with neutral cleaner, then wipe neutral detergent off.

Applying spray cleaner directly to the unit may affect its mechanical parts. Wiping the faceplate with a hard cloth or using a volatile liquid such as thinner or alcohol may damage the surface or erase characters.

Cleaning the CD Slot



As dust tends to accumulate in the CD slot, clean it every once in a while. Your CDs can get scratched if you put them in a dusty CD slot.

5 TROUBLESHOOTING GUIDE

VITALINQ™ Communications Troubleshooting Guide

Call us first! We want to hear from you. 1-800-319-6014 or support@vitalinq.com

The communication system between the procedure room and control room is very easy to repair. All devices unplug for easy replacement.

5.1 Most likely problems

Nothing works.

Check to see that the power cord is plugged in, and that the white and blue cables are plugged into the proper jacks.

No music.

Check to see that the white and blue cables are plugged all the way into the proper jacks. Try a CD. FM or AM stations may be blocked by the shielding effect of the building. See section 4 for music system operating instructions.

Intermittent interference is heard over the procedure room communication speaker.

Move any cellular phones in the control room at least 2 feet away from the console. (Cellular phones have on occasion been found to create interference due to RF bursts they emit when connecting to a cellular network.)

People in Procedure Room hear unwanted speech or noise from Control Room.

If the desk mic talk touch sensor is depressed or locked on, people in the Procedure Room will hear the Control Room via the desk microphone. This will also happen if a headset is connected and the mute switch is not muted (or optional Foot Switch is pressed or it is unplugged or not plugged in all the way).

Operator can't hear people in the Procedure Room while wearing Headset.

Verify Headset LISTEN control is turned clockwise; Verify that headset plug is in all the way. Try another headset. Try plugging the headset into the other jack on the console and adjust its LISTEN control. If one is used, verify that the foot switch is plugged in on the same side.

Doctor can't hear the Operator.

- Verify communication speaker in procedure room is connected and/or circuit board on speaker is properly seated in speaker clips.
- Verify that headset plug is in all the way.
- Try another headset if one is available.
- Unplug the foot switch (if supplied). If the doctor can hear, then replace foot switch.
- Move headset and foot switch (if supplied) to jacks on the other side of console. (The left and right sides of the console are separate headset channels.)
- On the rear of the console is a small white slotted shaft, which controls the headset "TALK" volume. Try turning this clockwise to increase the talk volume.
- Press the desk mic talk bar. If the doctor can now hear the operator then the problem is

that the headset or headset circuit of the console is not working. If the doctor still can't hear, the problem is either in the white cable, the console or the cath lab microphone. Call 800-319-6014.

5.2 Music troubleshooting guide

The following checklist will help you remedy problems you may encounter with your unit.

General

No power is being supplied to the unit.

- Turn on the unit.

No sound or the sound is very low.

- The position of the fader control [FADER] is not set for a 2-speaker system.
- The volume of the unit and/or connected device is very low.
  – Increase the volume of the unit and connected device.

The contents of the memory, stored stations and correct time have been erased.

The power has been disconnected or was interrupted.

During playback or reception, the demonstration mode starts.

If no operation is performed for 5 minutes with [DEMO-ON] set, the demonstration mode starts.
– Set [DEMO-OFF]

The display disappears from/does not appear in the display window.

The dimmer is set to [DIM-ON]
The display disappears if you press and hold OFF.
– Press OFF on the unit until the display appears.

The display disappears while the unit is operating.

[BLK OUT] (black out) is set to [B.OUT-ON]

The display/illumination flashes.

The power supply is not sufficient. Contact Vis-A-Vis.

The operation buttons do not function.
The disc will not eject.

Press DSPL and (back)/MODE for more than 2 seconds to reset the unit.
The contents stored in memory are erased.

USB playback

You cannot play back items via a USB hub.

This unit cannot recognize USB devices via a USB hub.

Cannot play back items.

A USB device does not work.
Reconnect it.

The USB device takes longer to play back.

The USB device contains files with a complicated tree structure.

The sound is intermittent.
The sound may be intermittent at a high-bit-rate.
DRM (Digital Rights Management) files may not be playable in some cases.

CD Playback

The disc cannot be loaded.
- Another disc is already loaded.
- The disc has been forcibly inserted upside down or in the wrong way.

The disc does not playback.
- Defective or dirty disc.
- The CD-Rs/CD-RWs are not for audio use.

MP3/WMA files cannot be played.
The disc is incompatible with the MP3/WMA format and version.

MP3/WMA files take longer to play back than others.
The following discs take a longer time to start playback.
- a disc recorded with a complicated tree structure.
- a disc recorded in Multi Session.
- a disc to which data can be added.

The sound skips.
Defective or dirty disc.

Radio reception

The stations cannot be received. The sound is hampered by noises.
- Check the frequency.
- An external antenna may be necessary. Call us.

Preset tuning is not possible.
- Store the correct frequency in the memory.
- The broadcast signal is too weak.

RDS

PTY displays "- - - - - - - -."
- The current station is not an RDS station.
- RDS data has not been received.
- The station does not specify the program type.

Error Displays/Messages

The following messages may appear or flash during operation.

CD ERROR
The disc cannot be played. The disc will be ejected automatically.
- Clean or insert the disc correctly, or make sure the disc is not blank or defective.

CD NO MUSIC
There is no playable file. The disc will be ejected automatically.
- Insert a disc containing playable files.

CD PUSH EJT
The disc could not be ejected properly.
- Press ⏏ (eject).

HUB NO SUPRT
USB hubs are not supported.

INVALID
- The selected operation could be invalid.
- [USB MODE] cannot be changed during iPod playback.

IPD STOP
iPod playback has finished.
- Operate your iPod/iPhone to start playback.

NOT SUPPORT - ANDROID MODE
A USB device not supporting AOA (Android Open Accessory) 2.0 is connected to the unit while [USB MODE] is set to [ANDROID].
- Set [USB MODE] to [MSC/MTP].

OVERLOAD
The USB device is overloaded.
- Disconnect the USB device, then press SRC to select another source.
- The USB device has a fault, or an unsupported device is connected.

READ
Now reading information.
- Wait until reading is complete and playback starts automatically. This may take some time depending on the file organization.

USB ERROR
The USB device cannot be played.
- Connect the USB device again.

USB NO DEV
A USB device is not connected or recognized.
- Make sure the USB device or USB cable is securely connected.

USB NO MUSIC
There is no playable file.
- Connect a USB device containing playable files

USB NO SUPRT
The USB device is not supported.

6 INSTALLATION

6.1 Planning the Vitalinq™ installation

The Vitalinq™ has been designed for ease of installation. Please feel free to contact Vis-A-Vis customer support at 800-319-6014 at anytime for assistance with an installation.

There are microphones and speakers for the procedure room and for the control room. The control room utilizes a desk microphone or a headset (both are provided). The procedure room microphone is what we refer to as the monitor microphone and is attached to the face of the monitor (or one of the monitors in an array) opposite the physician. All cables are pre-terminated and may be run free or in conduit, subject to local regulations.

Using the layout in "6.2 Installing Vitalinq™ speakers" and the instructions in 6.1.1 and 6.1.2, select locations for the speakers and monitor microphone. Always check for adequate space in the ceiling above the locations selected for the speakers. **Follow any applicable local regulations regarding securing the speakers.**

The monitor microphone is directional and must be mounted with its long axis vertical.

6.1.1 Procedure room (LAB)

In the procedure room, the monitor microphone should be located on the video monitor directly across from where the physician would typically stand and attached to the face of the monitor in the bezel area with it's long axis oriented vertically. See "6.3.2 Monitor microphone placement". For the physician to hear best, the communication speaker should be near the physician but more than six feet away from the monitor microphone and the door to the control room. The music speakers should be placed about four feet on either side of the physician, usually at the ends of the table. **Follow local regulations regarding securing these devices.**

6.1.2 Control room (TEK)

In the control room, the operator's desk microphone should be placed in a position convenient for the operator. For best operation, the communication speaker should be located in the ceiling more than six feet away from the desk microphone and the door to the procedure room. The music speakers should be placed in the ceiling, three or four feet on either side of the operator. If provided, the optional auxiliary wireless headset should be located near the console. **Follow local regulations regarding securing these devices.**

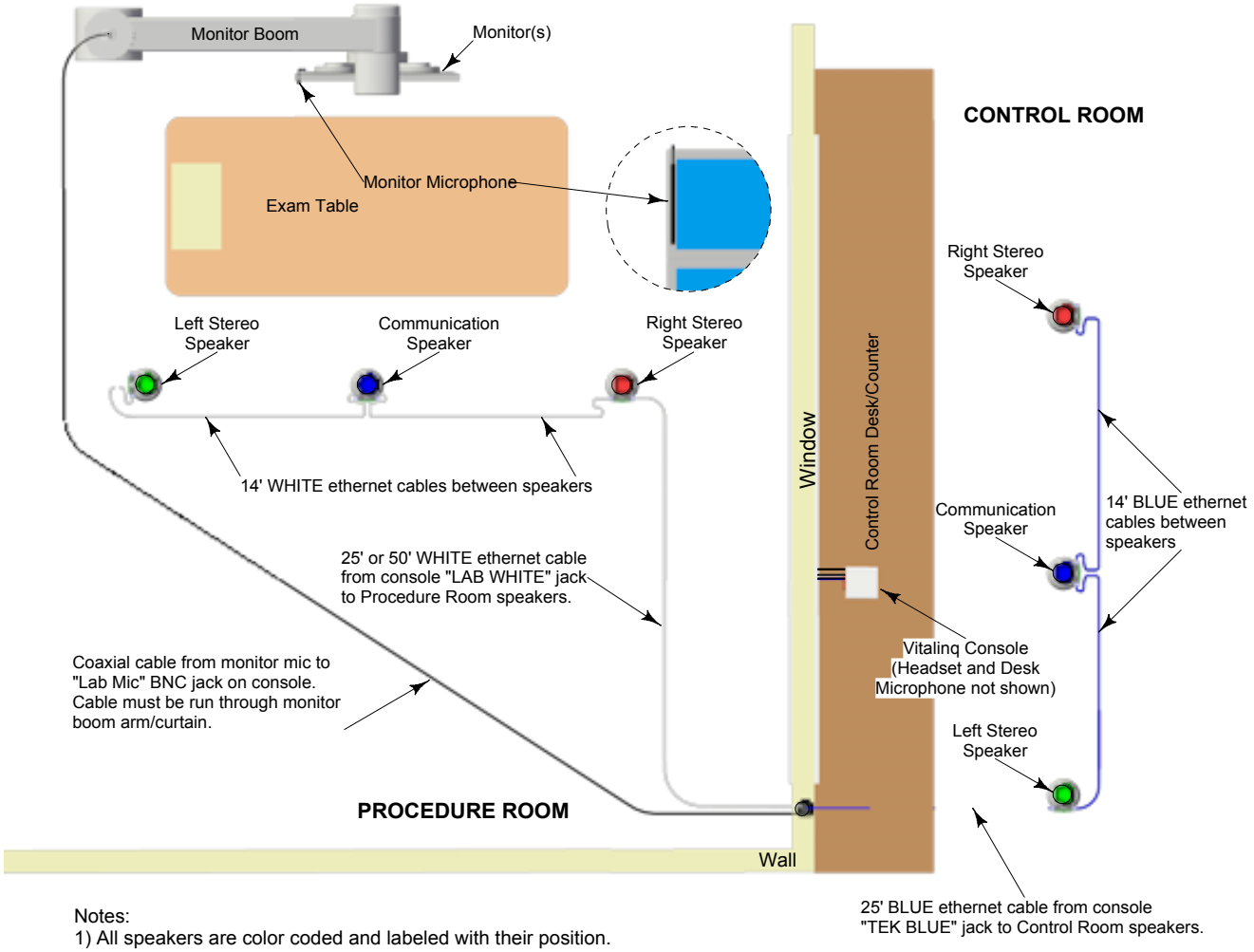
6.1.3 Control room console

The cables from the speakers and monitor microphone need to connect to the rear of the desk console. See typical layout on following page. If you are installing before the walls are sheet-rocked, use a junction box near the console and one in the ceiling. Connect them with a 1" conduit if required. Cables can be pulled through by staggering the connectors. **Follow local regulations regarding securing these devices.**

The communication system has volume controls for headset and overhead devices. Headset jacks are on the front of the console and foot switch / desk microphone jacks are on the rear.

VITALINQ 94A-07 COMMUNICATION SYSTEM

TYPICAL DEVICE INSTALLATION



Notes:

1) All speakers are color coded and labeled with their position.
2) Speakers connect together in series (daisy chain) using supplied color coded ethernet cables. White for procedure room and blue for control room. Color coding of cables enables easy troubleshooting. Order of connection not critical. If conduit is used it should be 1". Junction boxes are not necessary at conduit ends.
3) Ethernet cables provided are CAT5. CAT6 can be used.
4) Monitor microphone (MM) mounts to face of monitor with the long axis oriented in the vertical position.
5) Monitor Microphone is connected directly to console BNC jack labeled "Lab Mic" using supplied coaxial cable. When cable is installed, ensure sufficient length is available at monitor to reach BNC jack on Monitor Microphone.
   Other connection options are possible. **See "Monitor Microphone Cable Connection" section of installation Manual for details.**
6) Console plugs into standard 110VAC, 60Hz outlet (US).

Typical connection of ethernet cables to speaker

Connection of ethernet, coaxial and power cables to console

VITALINQ™ by VIS-A-VIS, INC.

Vis-A-Vis, Inc.
800-319-6014
www.vitalinq.com

6.2 Installing Vitalinq™ speakers

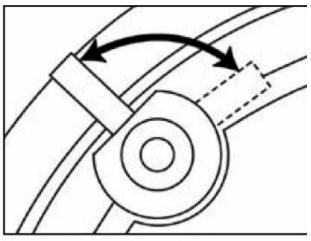
6.2.1 Installing speakers in ceiling

There are two modular, gray eight conductor jacks on the communication speaker and music speakers. The Ethernet cables can be connected to the speakers in any convenient sequence. The speakers mount in the ceiling.

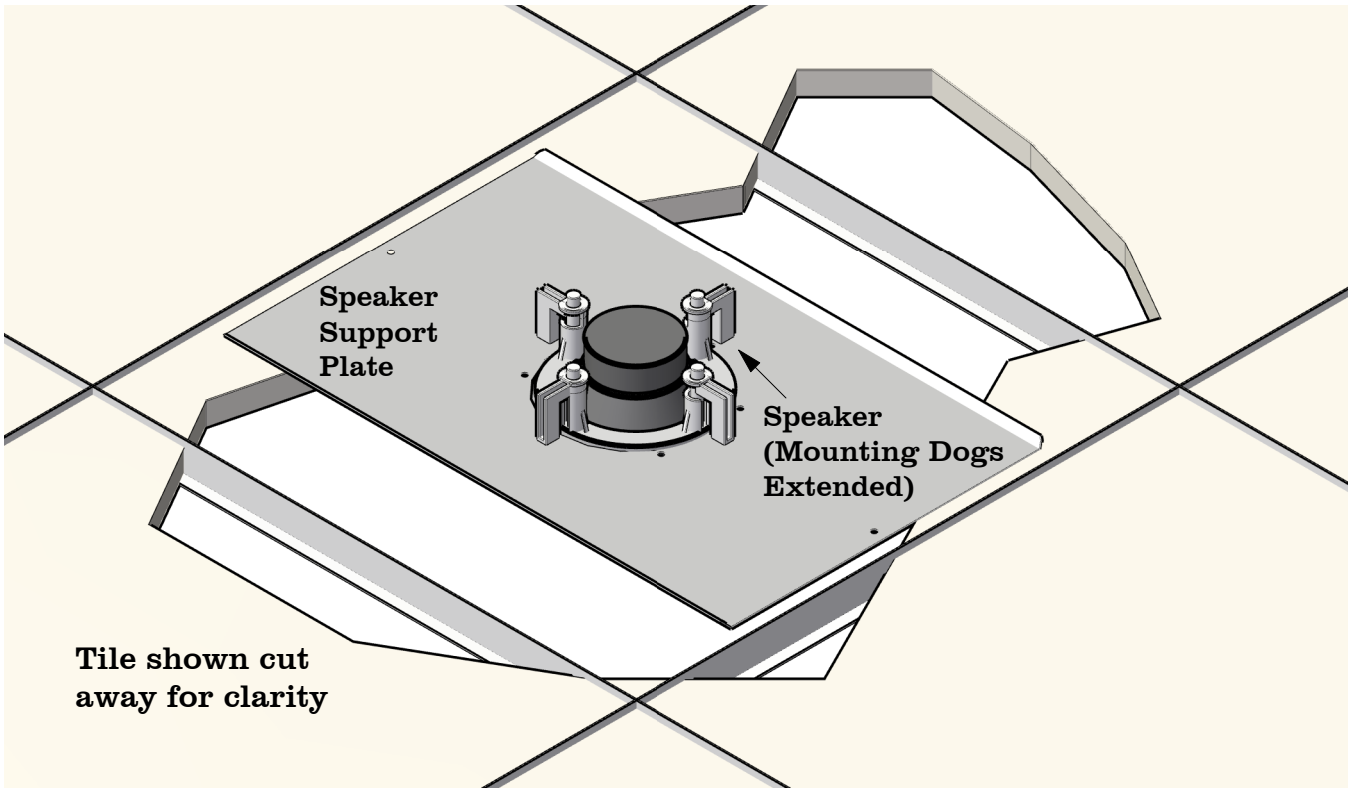
1. Determine placement of all speakers. In the procedure room, a communications speaker should be located in the general area near the physician and more than six feet away from the monitor microphone and the door to the control room (ideally above and just behind the physician). A right music speaker should be located at the table end that would be to the right of the physician, and a left music speaker at the table end that would be to the left of the physician.
2. In the control room, the communication speaker should be more than six feet away from the desk microphone and the door to the procedure room. Music speakers should be located left and right of where the operator is typically seated.
3. Remove the ceiling tiles (if present) in the locations you have determined for the ceiling devices.
4. In the speaker box, the communication speakers are packed individually and are marked COMM. The two (2) pairs of music speakers are packed individually, two left and two right and are marked MUSIC. A speaker support plate is provided for each speaker.

⚠ *** Be careful when handling the support plate as the edges can be sharp!!**

5. Take the ceiling tiles (if present) you removed in step 2 and draw a straight line on the backside from corner to corner. Place the support plate over the lines you drew on the tile and line up the template with the lines to center the template. The plate must not extend past the edges of the tile. Mark the circle and cut it out with a knife or drywall saw. The hole should be 6-5/8” diameter. Remove the grille of the speaker by rotating the securing legs on the back of the speaker and gently pushing them down towards the speaker grille. Replace the legs after grille removal to their original position. Put the speaker in the hole from the front side of the tile. Position the support plate over the speaker on the rear of the tile. Rotate out the legs on the back and screw down the four phillips head screws on the front to pull the legs against the support plate. **Be careful not to over tighten the screws**. If needed after installation, the grill may be removed with a bent paperclip.



Speaker installation detail



Follow local regulations regarding securing these ceiling devices. If none apply, add a safety wire (ceiling hanger wire) from the grid support to the device.

6. Install all speakers into selected locations.

All speakers have dual GRAY jacks, and there is no particular sequence for interconnection. This allows for much flexibility in cable routing. Connect all of the devices in the procedure room (LAB), including COMM speaker and the two MUSIC speakers (left and right) with short white cables. The procedure room device nearest the console is connected to the console at the LAB WHITE jack with a long white cable. Spare cables and connectors are provided. In the control room, connect COMM and the two MUSIC speakers (left and right) with short blue cables. Connect the control room speaker nearest the console to jack on the console labeled TEK BLUE, with a blue cable.

Using the provided color coded cables as instructed (white for procedure room and blue for control room) will aid in the event that Vis-A-Vis customer support needs to be contacted to assist with troubleshooting.

6.3 Monitor Microphone Installation

6.3.1 Monitor microphone description

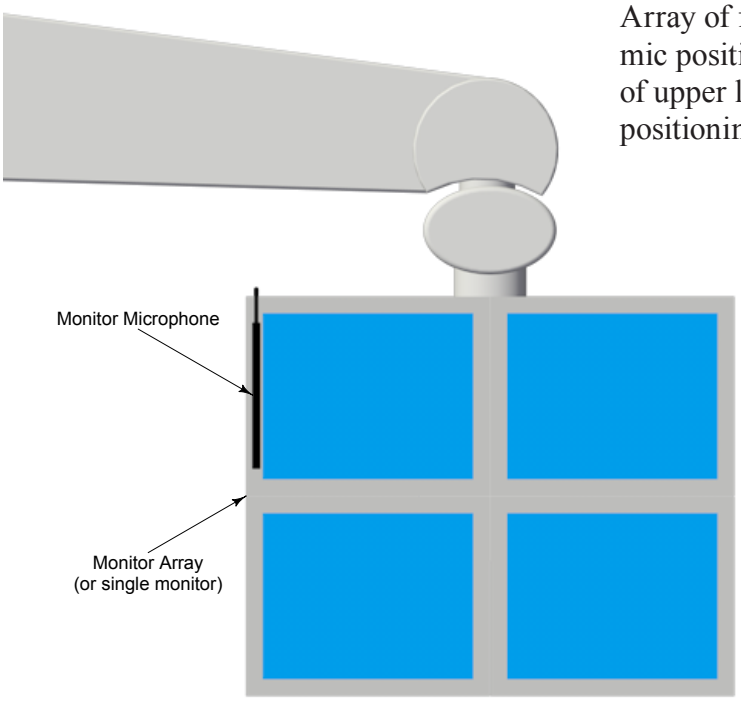
The monitor microphone is the microphone (mic) used in the procedure room to pick-up and transmit the physicians speech back to the control room operator.

The monitor mic is a 10 inch long black aluminum tube with a 1/2” square cross section and a female BNC connector. One side of the microphone has two strips of Dual-Lock™ (Velcro) which is used to adhere the mic to the bezel of the monitor or monitor array across from the physician. See illustrations on following pages.

6.3.2 Monitor microphone placement

The monitor mic has a pick-up pattern of approximately 180º in the horizontal plane and about 20º in the vertical plane and therefore the mic **must be oriented with its long axis vertical**. See image below.

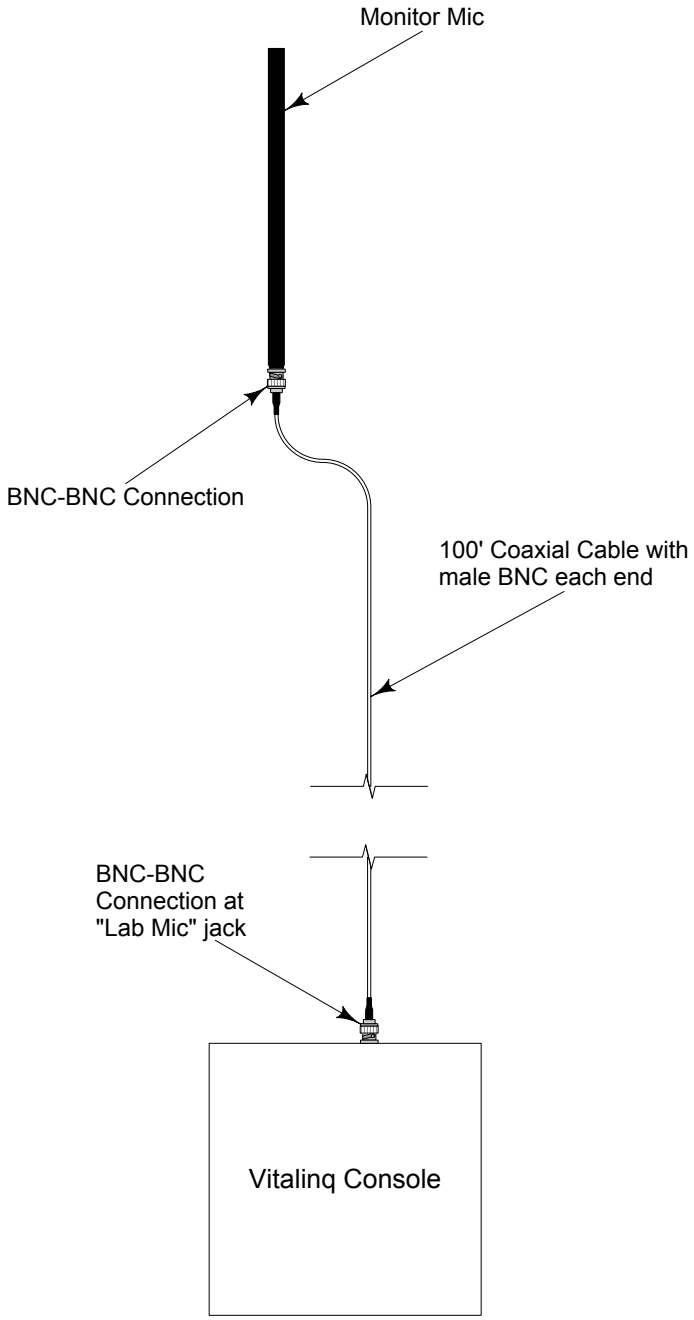
1. Determine the best location for adhering the mic in a vertical orientation along the bezel of the monitor (edge of face of monitor) across from the physician.
2. Clean the bezel area of the monitor and remove the adhesive backings from the Dual-Lock™ and attach firmly to the selected area of the monitor. Apply light pressure to the mic for approximately 30 seconds.



Array of four monitors shown with mic positioned along left bezel of upper left monitor. Similar positioning if single monitor.

6.3.3 Monitor microphone cable connection

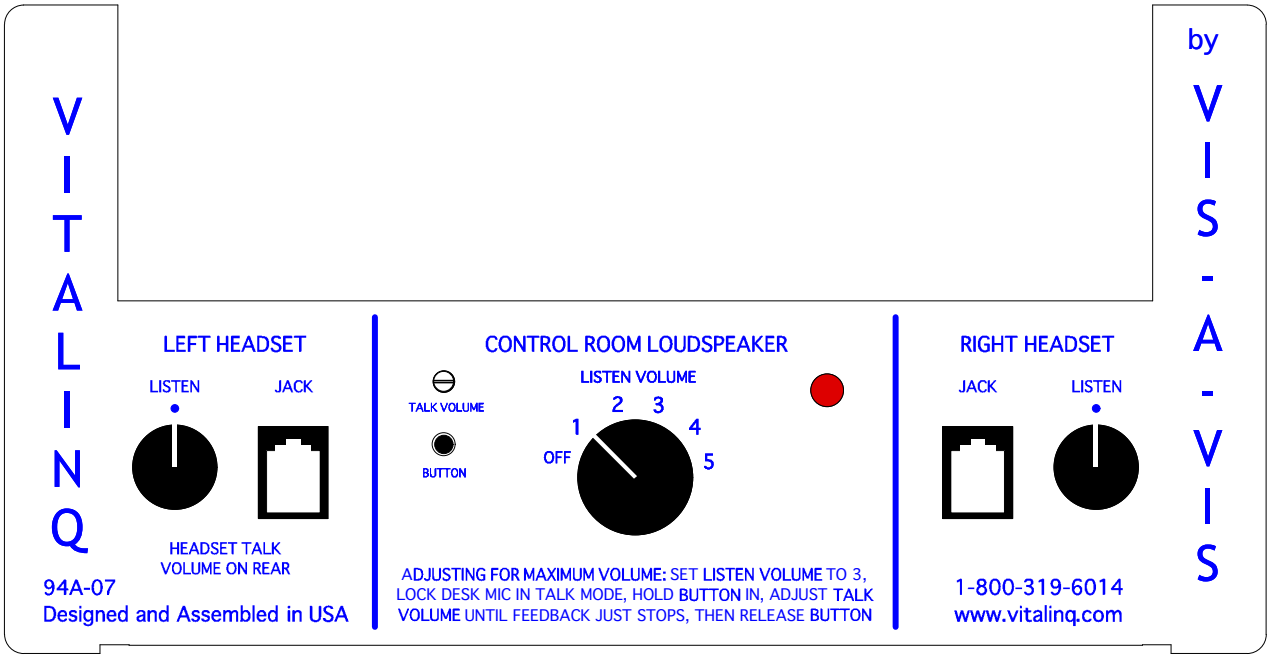
The monitor microphone is connected to the console using a coaxial cable that is supplied with the system. This cable, which has male BNC connectors on either end, is routed through the monitor boom/drape so that one end is available at the monitor across from the doctor in the procedure room and the other end is available where the console is located in the control room. When installing the coaxial cable, be sure to allow ample cable at the monitor microphone end to allow attachment to the male BNC connector located on the monitor microphone. A male-male BNC coupler is provided to connect the cable to the monitor microphone.



6.4 Installing the Vitalinq™ console

6.4.1 Front of Console

Plug the headset into a headset jack on the front of the console closest to the operator's normal working location. If you will also be using a desk microphone, **make sure that it is NOT plugged in on the same side as the headset**. See next section.



Note:

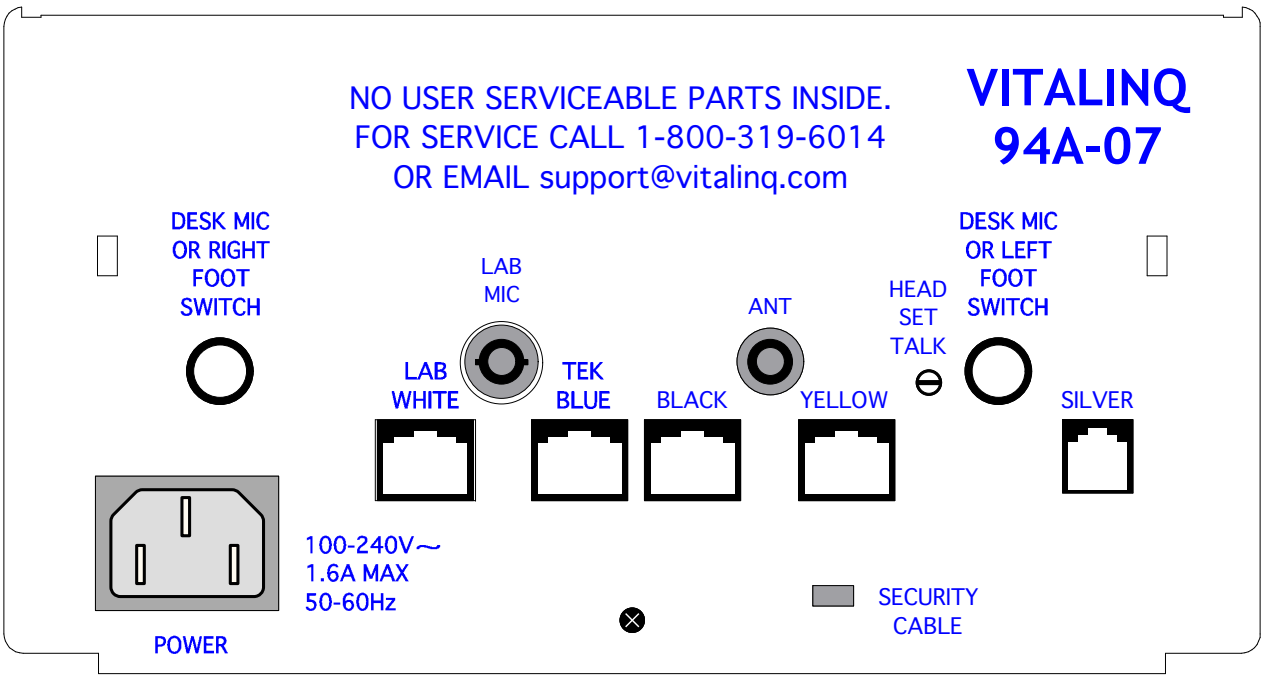
The Console is usually placed on the control room counter top near the operator. If this is not possible, it may be placed in another location convenient for operation of music controls and if necessary, an optional remote console (MC-11 Mini Console) can be purchased for the headset (and foot switch if one is used) so they can be located within reach of the control room operator or even in another room. See section titled OPTIONAL EQUIPMENT at the end of this document.

Contact Vis-A-Vis at 800-319-6014 or email support@vitalinq.com to learn more about this option.

6.4.2 Rear of console

- If using a desk microphone, plug it into either the jack marked DESK MIC OR RIGHT FOOT SWITCH or the jack marked DESK MIC OR LEFT FOOT SWITCH.
- Plug the white Procedure room Ethernet cable into the jack marked LAB WHITE.
- Plug the blue Control room Ethernet cable into the jack marked TEK BLUE.
- If using an optional headset foot switch instead of the supplied in-line mute switch, plug it into the foot switch jack on the **SAME** side that you plugged in the headset. For instance, if using the LEFT HEADSET JACK, plug the foot switch into the jack labeled DESK MIC OR LEFT FOOT SWITCH.
- Connect the male BNC connector on the coaxial cable from the monitor microphone to the BNC connector on the console labeled LAB MIC.
- The jacks marked BLACK, YELLOW and SILVER are used for optional equipment. Instructions for using these jacks are included with the equipment. See OPTIONAL EQUIPMENT section at the end of this document.
- The ANT jack is provided for using an external FM antenna in weak reception areas. This antenna is not supplied by Vis-A-Vis.
- Plug the three conductor power cable into the POWER jack. Don't plug it in to an AC power outlet yet.

Proceed to Section 2: "Setting up the VITALINQ™ system"



7 OPTIONAL EQUIPMENT

7.1 Vitalinq 94W-15 Wireless Headset System

The Vitalinq 94W-15 Wireless Headset System is a separate system which can be connected to the Vitalinq 94A-07 Communication System. When used in this manner, up to eight wireless headsets are capable of two-way communication with each other AND with any headset(s) plugged into front of the 94A-07 console.

The only additional items required to use the 94W-15 Wireless Headset System with the 94A-07 Communication System are a RJ9 to RJ9 cable and a foot switch. These items will be provided when the systems are purchased for use with each other. If you are missing these items for any reason we will be happy to provide them at no charge. Just contact Vis-A-Vis at 800-319-6014 or support@vitalinq.com and explain that you are trying to connect the 94A-07 and 94W-15 systems together.

7.1.1 Setup

The setup information below provides instructions for connecting the 94W-15 to the 94A-07. Setup and operation of the 94W-15 is covered in detail in the Vitalinq 94W-15 Wireless Headset System Operations and Installation Manual which is provided with the wireless system. A copy of the Vitalinq 94W-15 Wireless Headset System Operations and Installation Manual is available via the "Documentation" link on the Vitalinq web site which at www.vitalinq.com.

1. Plug one end of the RJ9 to RJ9 cable into the jack labeled SILVER on the 94A-07 console and the other end into the jack labeled SILVER on the 94W-15 console.
2. Plug the foot switch into the foot switch jack on 94A-07 console on the SAME side that the headset is plugged into. For instance, if using the LEFT HEADSET JACK on the front of the 94A-07 console, plug the foot switch into the jack labeled LEFT FOOT SWITCH OR AUX IN on the rear of the console (directly behind the headset jack being used). If using the RIGHT HEADSET JACK, plug the foot switch into the jack labeled RIGHT FOOT SWITCH OR AUX IN

When the foot switch is not pressed, only the wireless headset users will be able to hear the control room technician. Pressing the foot switch allows the wireless headset users AND the procedure room to hear the technician.

7.2 Vitalinq MC-11 Mini Console

7.2.1 Overview

Purchased separately, the Vitalinq MC-11 (Mini Console) is an accessory device designed to be used with the Vitalinq 94A-07 Intercom and Music system. The Mini Console is very compact, measuring only 5 5/8" wide by 1 5/8" high by 4" deep. Its purpose is to reproduce the intercom functionality of the 94A-07 at another physical location. Control of the music system remains at the 94A-07 console. A single Ethernet cable is used to connect the Mini Console to the 94A-07 console. This cable also provides power to the Mini Console.

The following are examples of situations where the Mini Console would be useful.

Example 1

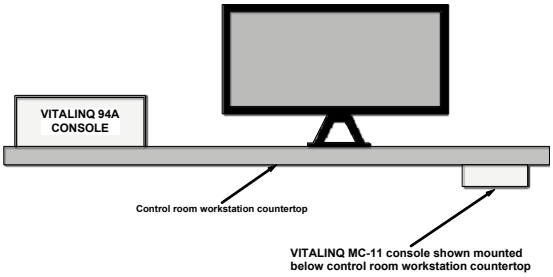
The desk/counter at control room technician's workstation is crowded making it difficult to find room for the 94A-07 console. In this case, the 94A-07 console could be located where more space is available, possibly at the end of the workstation or on a shelf, and the smaller Mini Console could be placed in front of the technician or even beneath the counter at the technician's location.

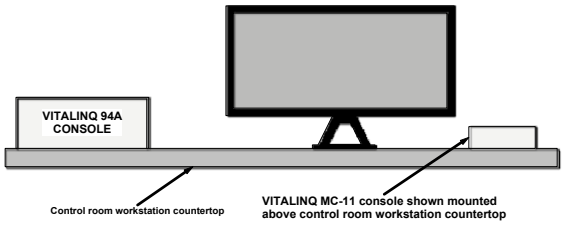
Example 2

There is the need for a secondary location in the control room for personnel to have two-way communication with the procedure room and this location is too far from the 94A-07 console for it to be practical to connect a second headset to the 94A-07 console directly. This might be across the room or in a separate room or office. In this case, the Mini Console would duplicate the 94A-07 console's intercom functionality. An additional headset and foot switch and/or desk microphone will be needed. If located in a separate room from the 94A-07 console, and a desk microphone is to be used with the Mini Console, an additional communication speaker will also need to be installed in the room with the Mini Console. An additional communication speaker is not necessary if a headset is used. Please contact Vis-A-Vis at 800-319-6014 or by email at support@vitalinq.com to discuss your specific requirements.

7.2.2 Installation

1. Determine where the Mini Console will be located. Possibilities include but are not limited to on top or underneath a desk surface (see images below). If it is to be located under a countertop, it can be secured using two 2 1/4 inch #8 wood screws through pre-existing holes in the sheet metal enclosure. Before installation, make sure this screw length is not too long. If too long, it may penetrate through the countertop and damage the finish.





2. Run an Ethernet cable between the jack labeled BLACK on the rear of the 94A-07 console and the jack labeled BLACK IN on the rear of the Mini Console. This is the only cable that needs to be run between the two consoles. In addition to communication, this cable provides power from the 94A-07 console to the Mini Console. A 100' cable is provided.

3. Connect the Headset or Desk Microphone

   If using a headset:

   Connect the headset to the jack labeled HEADSET on the front of the Mini Console.

   If using a desk microphone:

   Plug the desk microphone cable into the jack labeled MIC-B on the rear of the Mini Console. Note that if using a desk microphone in a room other than the control room where the 94A-07 console and its speakers are located, you will need to install an additional communication speaker. This speaker will daisy chain off the control room communication speaker. Contact Vis-A-Vis at 800-319-6014 or by email at support@vitalinq.com to discuss your specific requirements.

Miscellaneous

- Although there is a built-in microphone on the Mini Console (labeled MIC-A), in most environments, using a headset or desk microphone will provide better sound.
- The jack labeled AUX on the front of the Mini Console is used for testing by the manufacturer.
- The RCA jack labeled AUX on the rear of the Mini Console can be used for a heart rate monitor.
- The jack labeled BLACK OUT on the rear of the Mini Console can be used to attach an additional Mini Console. Up to four Mini Consoles can be run in series.
- If you are interested in connecting a heart rate monitor or running Mini Consoles in series, contact Vis-A-Vis at 800-319-6014 or by email at support@vitalinq.com to discuss your specific requirements.

7.2.3 Operation

Headset

1. Adjust the talk volume for the headset using the small rotary pot labeled TALK on the front of the Mini Console.
2. Adjust the listen volume for the headset using the large knob labeled LISTEN on the front of the Mini Console.
3. Toggle the in-line mute switch located between the headset cord and coil cord to mute the headset microphone.

Desk Microphone:

1. The talk volume for the desk microphone can be adjusted using the small rotary pot labeled TALK on the rear of the Mini Console.
2. The listen volume for the communication speaker is adjusted using the knob labeled LISTEN VOLUME on the 94A-07 console.

3. The desk microphone has three user selectable modes accessed through a switch on the side of the microphone base. The modes are TALK, LOCK and MUTE. In TALK mode, push the silent operation touch switch to talk. When the microphone is active, the LED ring in the housing will illuminate. If desired, the microphone may be locked in the always on mode by placing the switch in the LOCK position. In this mode, when you tap the silent operation touch switch on the microphone base, the microphone switches between locked on (LED illuminates) and locked off. (The desk microphone can also be muted by placing the TALK/MUTE switch on the console in the MUTE position.)

If the touch switch appears to be malfunctioning, unplug the cable from the microphone base and reconnect it to reset the switch.

7.3 Wireless Nurse Jack (YELLOW jack)

The Vitalinq 94A-07 has an jack located on the back of the console labeled "YELLOW". Using a special cable, this jack allows two wireless headsets to be connected to the console. These two wireless headsets provide two-way communication with each other and with any headset plugged into the "HEADSET" jack on the front of the console. However, unlike the headset plugged into the front of the console, they do NOT communicate with the procedure room. This setup is particularly useful if there is a Scrub and Circulating Nurse involved with the case.

Additional information is available on this feature through our web site in the document titled *Supplemental Instructions Sennheiser D10 Wireless Headsets with 94A-07.*

Please contact Vis-A-Vis at 800-319-6014, by email at orders@vitalinq.com or through our web site at www.vitalinq.com for pricing information.

If you have any questions or need help with the setup or operation of your Vitalinq system, please give us a call at 800-319-6014 or email support@vitalinq.com. Also, please feel free to give us your feedback or suggestions.

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