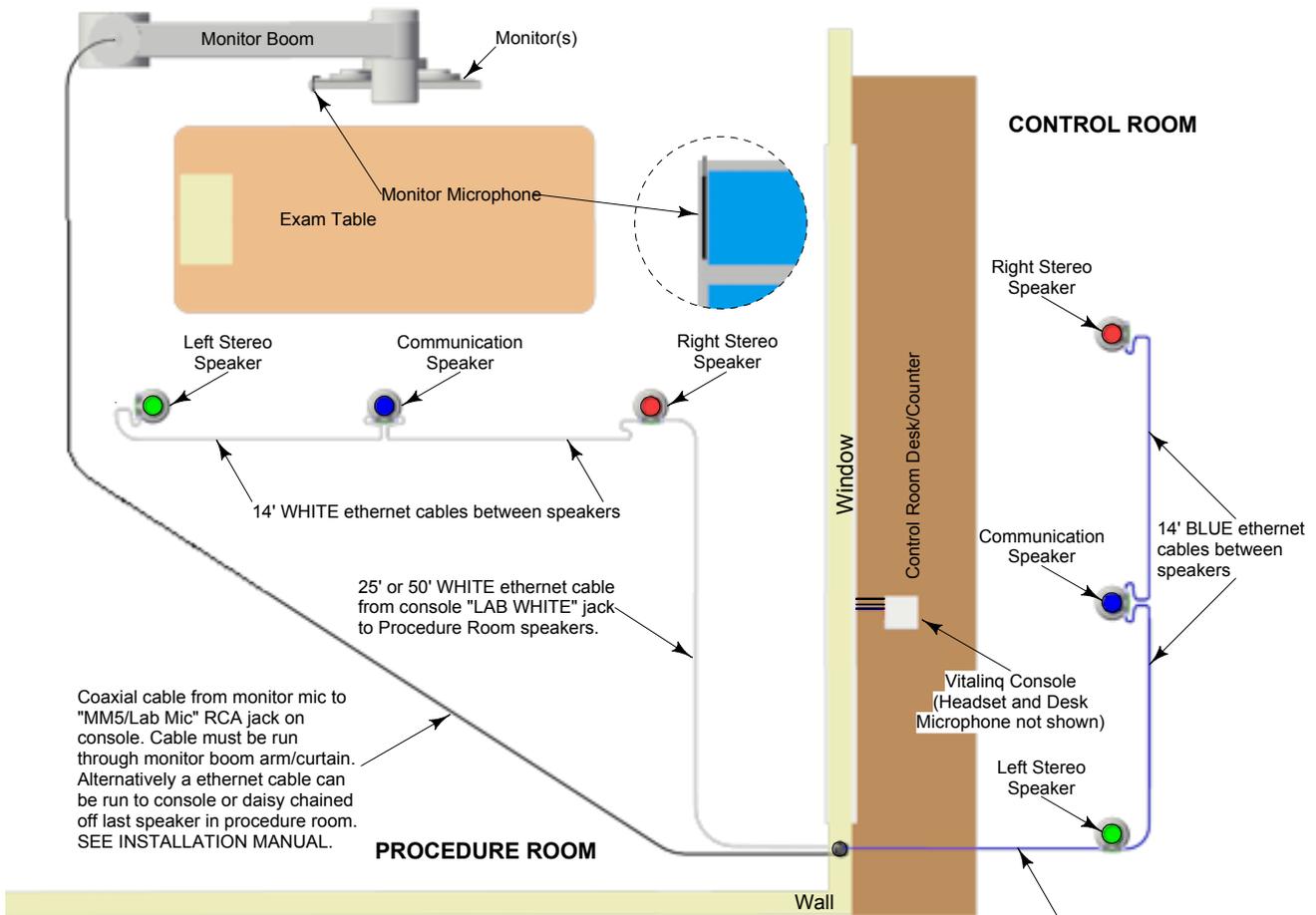


# Ceiling Speaker Placement and Installation

## 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 it's long axis oriented in the vertical position.
- 5) Monitor Microphone can be:
  - a) connected directly to console "MM5" jack ("Lab Mic" on later consoles) using supplied coaxial cable and adaptors.
  - b) "daisy chained" off procedure room speaker using supplied ethernet cable and converter box.
  - c) connected directly to console "LAB WHITE" jack using supplied ethernet cable, converter box and splitter.
 Other combination 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

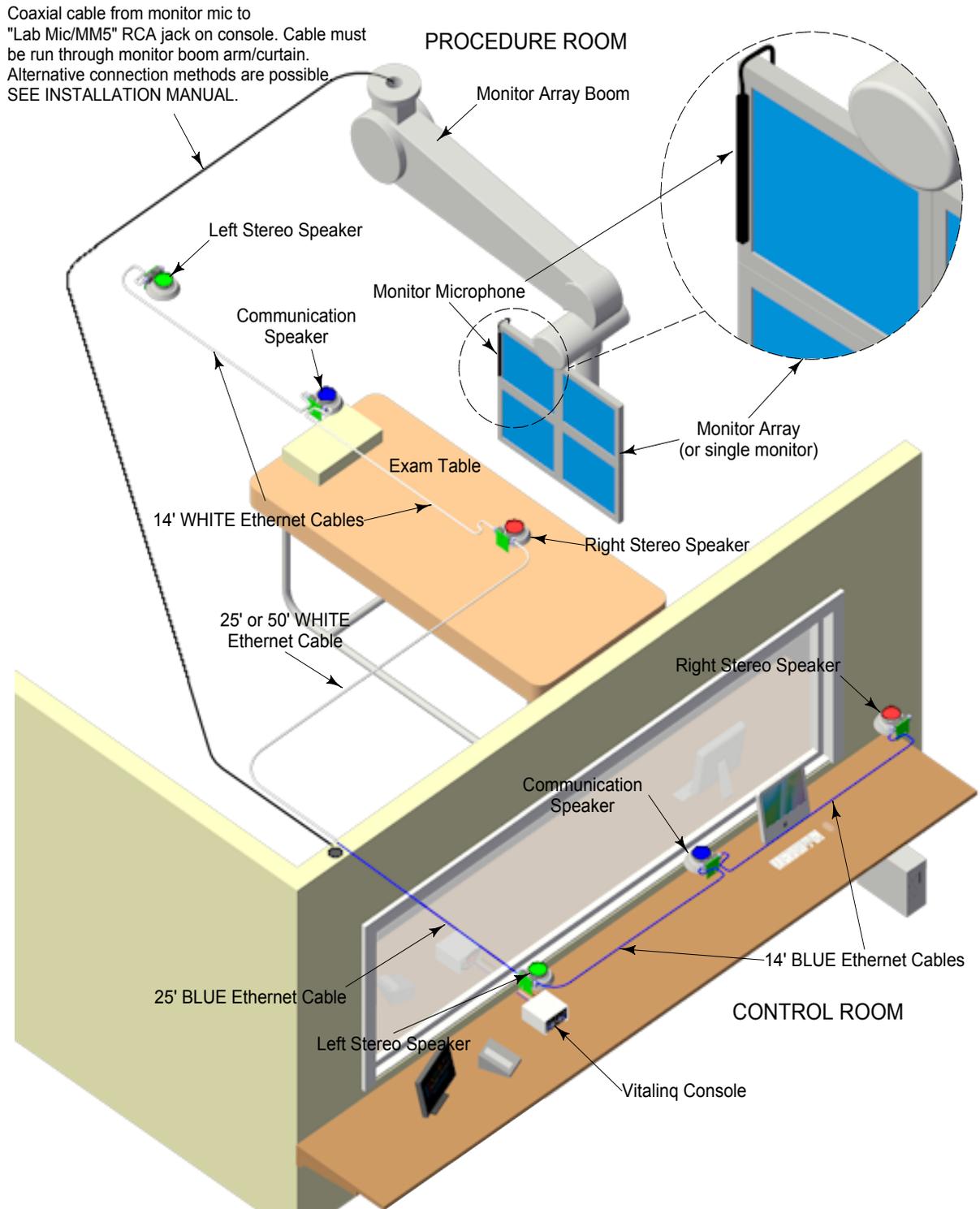


Connection of ethernet, coaxial and power cables to console



Vis-A-Vis, Inc.  
800-319-6014  
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## Typical System Layout - 3D View



## Installing Vitalinq™ Speakers

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 appropriate to the operator position.
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.

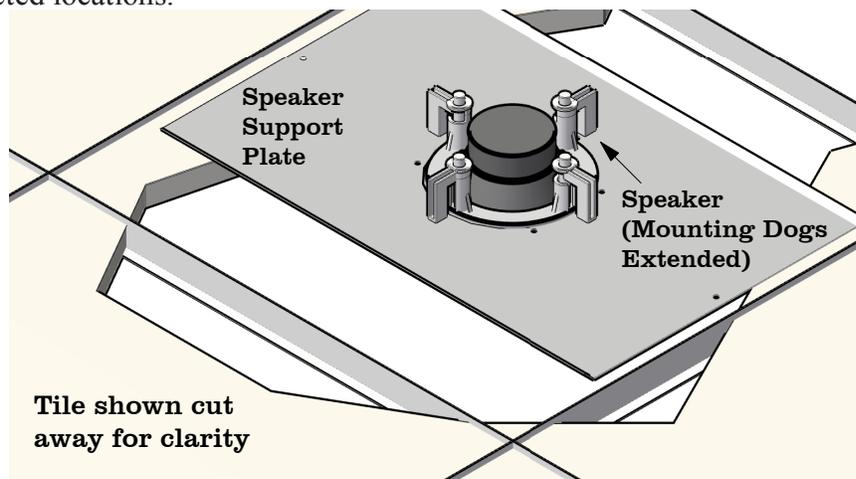
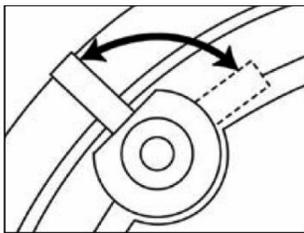


**\* Be careful when handling the support plate as the edges can be sharp!!**

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.

**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.



Typical connection of ethernet cables to a speaker. Communication speaker for procedure room shown.

Please use **WHITE** cables in procedure room and **BLUE** cables in Control Room. This will greatly simplify troubleshooting in the event that it becomes necessary.