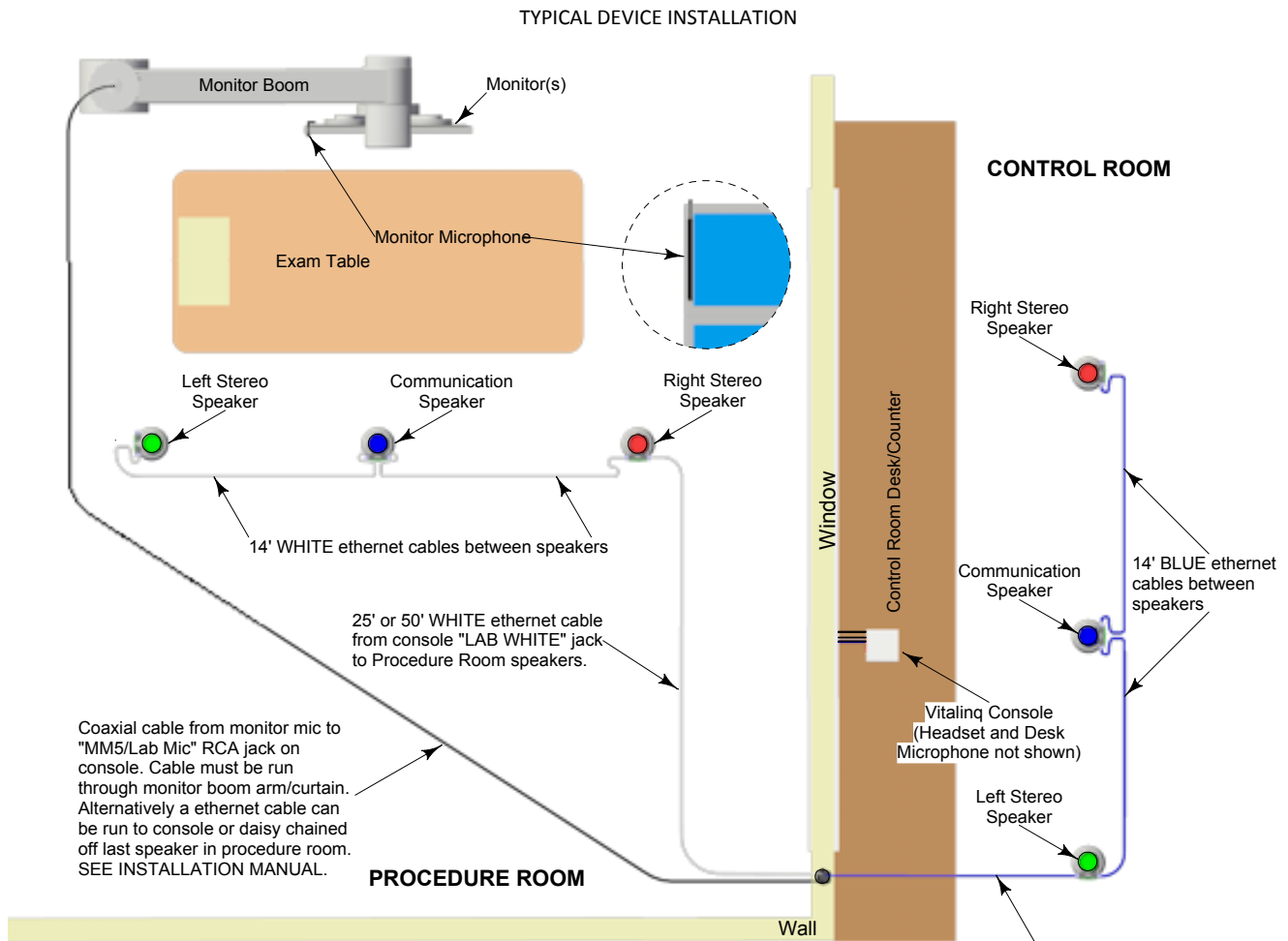


Monitor Microphone Placement and Installation



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



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Monitor Microphone Installation

Monitor microphone description

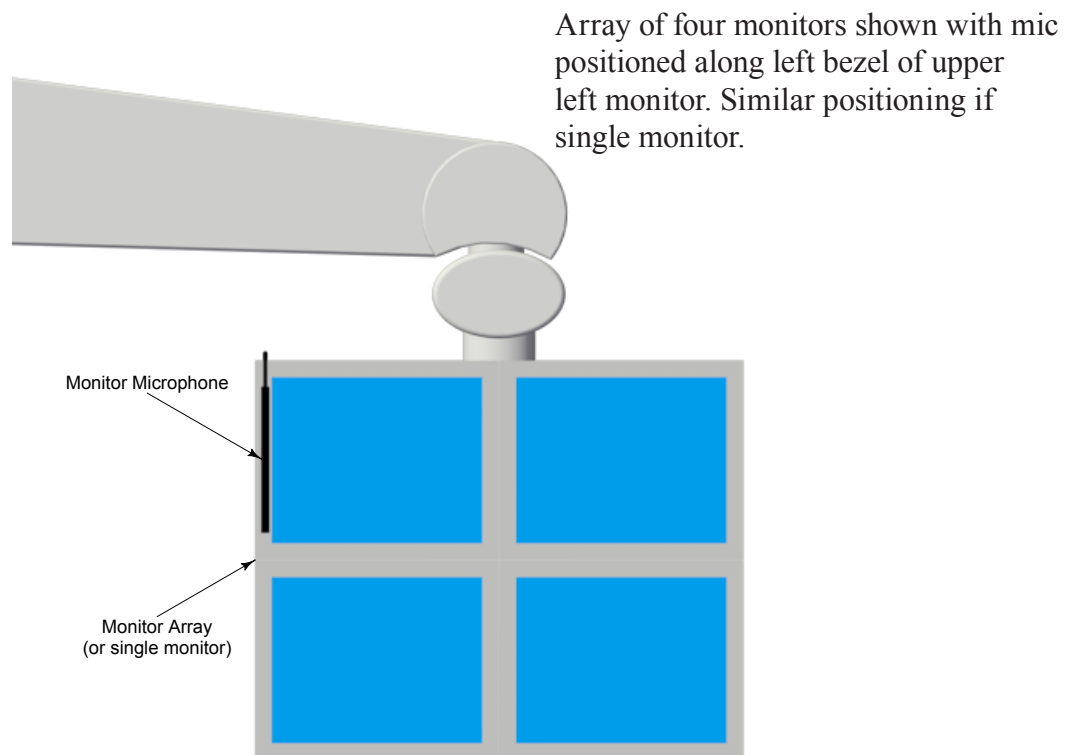
The monitor microphone is the microphone (mic) used in the procedure room to pick-up and transmit the physicians speech back to the control room operator.

The monitor mic is a 13 inch long black anodized aluminum tube with a 1/2" square cross section. A short coaxial cable with a BNC connector is attached to the microphone. 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.

Monitor microphone placement

The monitor mic has a pick-up pattern of approximately 180° in the horizontal plane and about 20° in the vertical plane and therefore the mic **must be oriented with it's 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.



Monitor Microphone Cable Connection

The monitor microphone can be connected to the system in several ways. Three of the most common methods are described below and illustrated on the following page. Other methods are essentially variations of these.

Option A

This method connects the monitor microphone directly to the RCA jack on the rear of the console labeled **LAB MIC** (or **MM5** on earlier models) using a supplied coaxial cable. This coaxial cable will need to be 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. At the monitor end of the cable, a BNC to BNC coupler is attached to couple it with the microphone cable. At the console end, a BNC to RCA adapter is used to plug the cable into the **LAB MIC** RCA jack on the console.

Option B

This method connects the monitor microphone to a supplied BNC/RCA coaxial to ethernet adaptor box. The adaptor box is adhesive backed and typically mounts on the rear of the monitor. The monitor microphone is plugged into the adaptor box using a supplied BNC to RCA adaptor. A supplied ethernet cable is then routed from the adaptor box through the monitor boom/drape to the last speaker in the chain of speakers in the procedure room ceiling. It then plugs into the open RJ45 connector on the speaker circuit board.

Option C

Like Option B, this method connects the monitor microphone to a supplied adaptor box. The adaptor box is adhesive backed and typically mounts on the rear of the monitor. The monitor microphone is plugged into the adaptor box using a supplied BNC to RCA adaptor. An ethernet cable is then routed from the adaptor box through the monitor boom/drape to the rear of the console where it is plugged into a supplied splitter that it shares with the white ethernet cable for the procedure room speakers. The splitter is then plugged into the RJ45 jack on the rear of the console labeled **LAB WHITE**.

Other connection combinations are possible. For instance, a coaxial cable could be run through the monitor boom/drape into the ceiling or equipment room where it could connect to the adaptor box. From there a ethernet cable could then be run to the last speaker in the procedure room speaker series or back to the control room. Further, any existing two conductor cable that is available and already routed through the monitor boom arm could be used. The cable does not need to be shielded

Monitor Microphone Connection Option Illustrations

