

From Set up to Broadcasting

Using the Mobile Broadcast Cart – High School/Senior High



Be extremely careful when rolling this cart with cables attached. When this unit is not in use, stow all cables in cabinet drawer, and lock both cabinet drawers. Store camera in a separate, locked location. Roll cart into safe location.

SET UP

1. Roll cart into desired location near a CATV drop.
2. Unlock and open both doors.
3. Connect power cord located on left side of cabinet to AC power.
4. Connect the CATV cable (about 30 ft. long) to the **RF** port on the bottom of the rear connector panel of the cart and to the CATV drop on the wall. Also connect the jumper cable supplied (horseshoe) between **TO CG** and **FROM CG** on the rear connector plate. This makes the video output available to the cable system. Leave this cable in place at all times.
5. Connect Video Camera, Microphones, Laptop, VID, as needed, to the connector plate located at the rear of the cabinet. Connectors are:

- | | |
|------------------|----------------|
| ◆ Video Source 1 | ◆ Mic 2 |
| ◆ Video Source 2 | ◆ Mic 3 |
| ◆ Video Source 3 | ◆ Camera Audio |
| ◆ Video Source 4 | ◆ Aux Audio |
| ◆ Mic 1 | |

NOTES:

1. TV speaker sound can not be heard from the VCR if TV is set in *Video mode*. Place TV in *TV mode* to hear VCR sound.
2. If TV set is in *Video mode*, only camera video/audio, and other audio sources can be heard if cameras are connected and playing.

CONNECTING THE VIDEO CAMERA

1. Attach the video camera to fixed pedestal platform on top of the cart.

When disconnecting the MBC, leave the camera attached to the pedestal platform and unhook the platform from the pedestal. To do this, push the small lever and large lever forward until they lock in place. Then lift camera and platform off the pedestal. To re-attach, slide platform in and snap down into place.

2. Connect the power cord to the camera and plug the adapter in on the rear connector panel of the cart.
3. Connect the RCA cable to the yellow slot on the camera and to the cart (top ports next to pedestal).

NOTE: When using these connections the video 1/cam audio RCA connectors on the rear connector plate can not be used. Similarly, if Video 1/cam audio on the rear connector plate is used, then the camera connections next to the fixed pedestal can not be used.

4. Turn camera power on.

CONNECTING THE MICROPHONE

1. Set up the microphone with the microphone stand (boom).
2. Plug the microphone cable into the Microphone 1 port on the rear connector panel.

OPERATION

1. Turn on main power switch at rear of cabinet (The red light indicates that it is on). All components should come on if individual power switches are on. See Troubleshooting Tips below if power to any component does not come on.
2. Turn on video camera.
3. Turn on 14" monitor (volume must be turned all the way down to avoid feedback).
4. Turn on the Videonics video switcher, if not on.
5. Turn on the VCR and set to Auxiliary (using the remote control).
6. The two 5" LCD monitors, Blonder Tongue RF Modulator, and Audio Mixer should come on when the main power is turned on. If not, See Troubleshooting Tips below.
7. Set up the Videonics video switcher so that the proper video sources are selected. **A, B, C,** and **D** correspond with ports **1, 2, 3, 4** on the rear connector panel. **A** also corresponds with the camera ports on the top of the cart.

Example: Select source **CUT 1** and **NEXT 2** inputs. Set up an effect, then do a transition while watching the monitors. The switcher output can be recorded to the VCR or output to the cable system.

9. The left 5" LCD monitor (Preview Monitor) shows video before going out to the cable system or VCR input. The right 5" LCD monitor (Program Monitor) shows video out that is LIVE to the cable system and VCR input. The preview output of the switcher allows the user to view and alter video without going to the cable system first.
10. The 14" monitor shows LIVE video output available to the cable system.
11. Depending on the audio components connected as described above in the set up, set the Shure SCM268 audio mixer audio using gain control 1, 2, 3, Aux, Master. Set audio volume control on 14" monitor as well. Selection of the audio source gain controls should be set to proper levels without overloading. Observe LEDs on mixer (no more than 5 LEDs should come on). Audio will also be output to the cable system via the RF modulator.
12. To use an external character generator in this system, disconnect the jumper cable between **TO CG** and **FROM CG** and connect the input and outputs from the CG as required. This will allow the user to insert characters over the live video signal going to the cable system. These characters cannot be recorded to the VCR, however.

BROADCASTING TO THE BUILDING

Turn on TVs in classrooms and set to school channel. The channel can be found on the front of the cart above the 14" monitor.

RECORDING A BROADCAST

1. Insert a blank tape.
2. Press record when broadcast begins.

TROUBLESHOOTING TIPS

1. If power to any of the cabinet components does not come on after main power cord is connected and power switch is turned on, check each components power switch to make sure it is on.
2. If still no power to cabinet components, check circuit breaker at rear panel, and A/C power source at room wall outlet.
3. If not video or audio is present on the video monitor, be sure the switcher and audio mixer is set up correctly.
4. Make sure all connections are securely fastened.
5. To check the cart, put a tape in the VCR and play it. This will override all inputs. If the tape DOES NOT play, there is a problem with the cart. If the tape plays the problem is elsewhere in the building.
6. Isolate the fault by choosing only one camera/audio output to RF connector or VCR. If that works, verify the next source in line until fault is found.
7. Consult the operations manual for each system component to be sure no operational errors are being made.
8. If you need assistance, contact your building Librarian or CTA.