

## Firmware Update Procedure

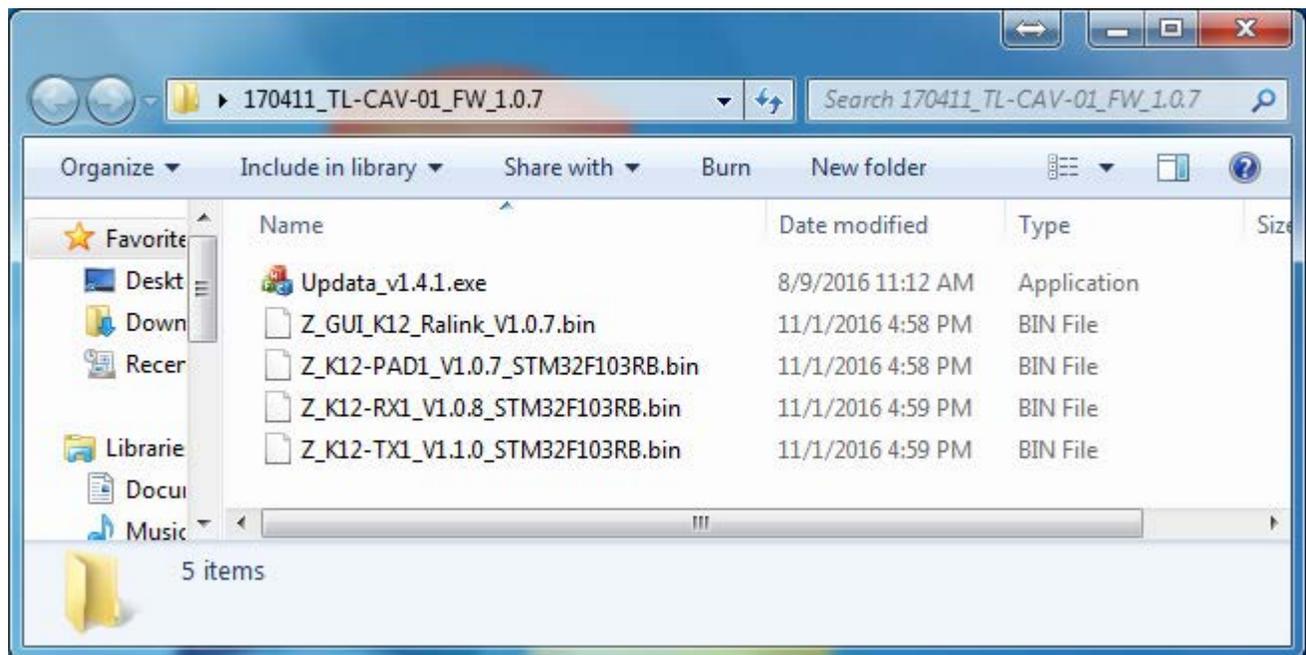
# TL-CAV-01 Classroom & Meeting Room Kit

In order to update the TL-CAV-01 hardware, you will need the following items not included in the TL-CAV-01 kit.

- Windows XP or later PC
- Three (3) Cat 5e or greater cables (solid core is preferred)
- A router with the IP address range configured to operate in the 192.168.0.xxx address block
- A USB A to USB micro B cable

Download and extract the firmware

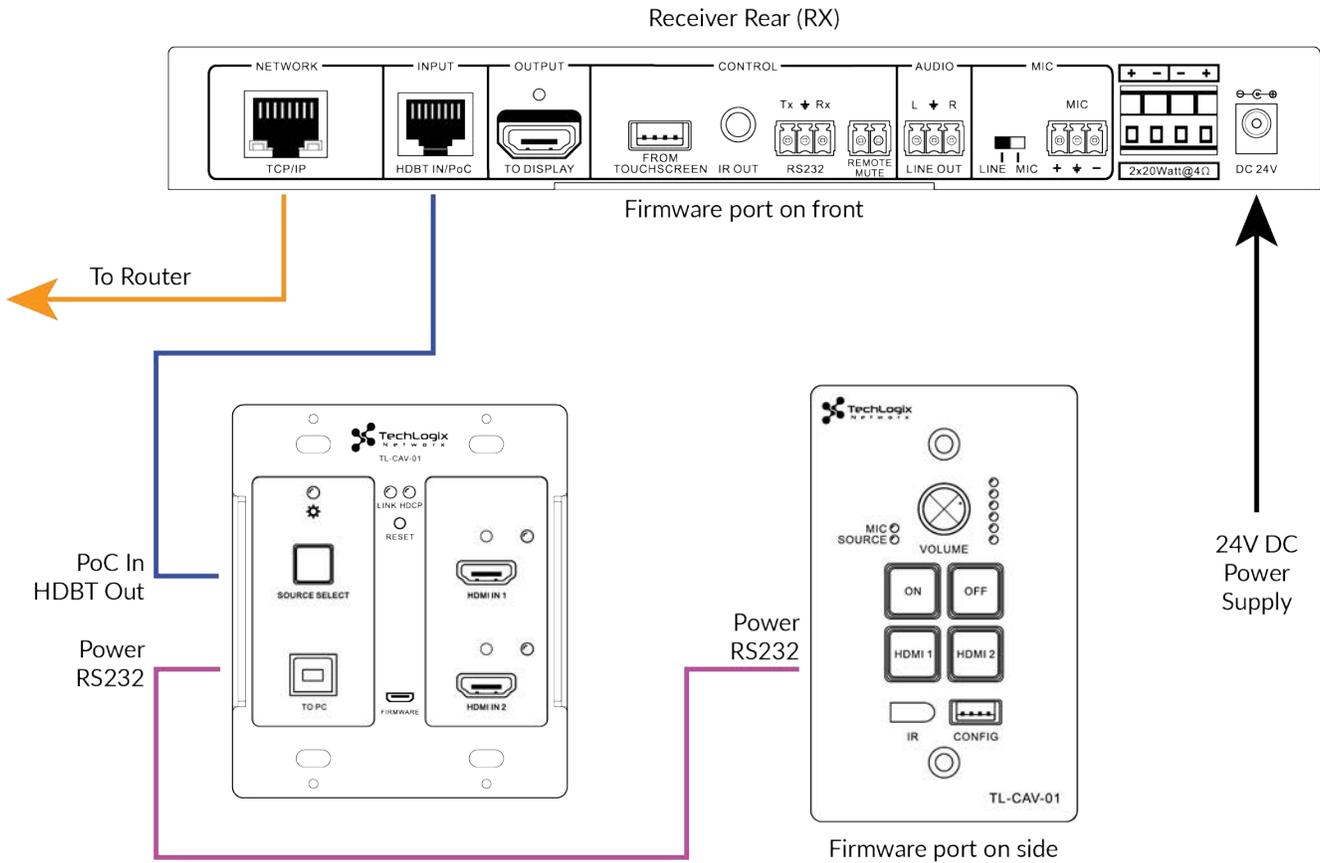
1. Download the firmware update .zip file from the TL-CAV-01 product page in the Resources section.
2. Extract the .zip file to a folder on a Windows computer.
3. Open the folder and become familiar with the file names.



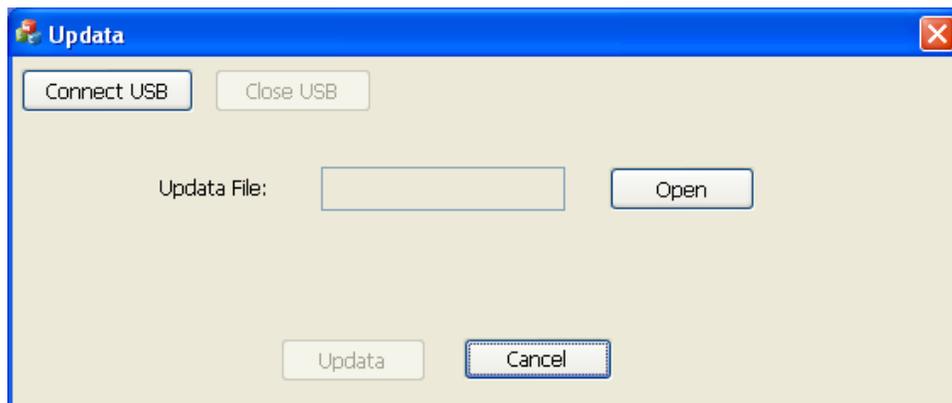
- a. The file with GUI in the name is for the web GUI.
- b. The file with PAD1 in the name is for the control pad.
- c. The file with RX1 in the name is for the receiver.
- d. The file with TX1 in the name is for the transmitter.

Update the hardware

1. Assemble the system as shown in the following diagram. The orange, blue, and pink lines are Cat cables for the system.



2. Double click the Updata executable in the firmware update folder.

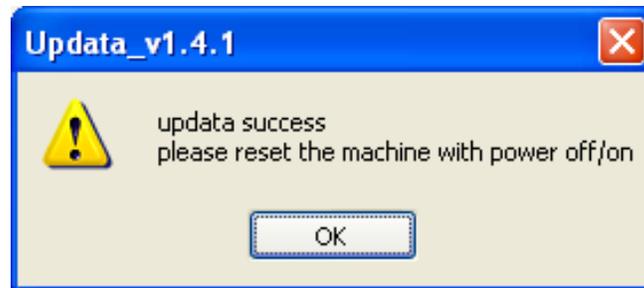


3. Connect the USB cable to the receiver FIRMWARE port on the front of the unit.
4. Click the *Connect USB* button in the Updata software.
5. Click the *Open* button in the Updata software.
6. Navigate to the firmware update folder and select the RX1 .bin file.
7. Click the *Updata* button to start the update.

Note: If the update fails, remove power from the system by unplugging the 24V DC power supply from the receiver, then click OK in the dialog box. Removing the USB cable is not necessary until the update is successfully installed.



8. Plug the power supply back into the receiver.
9. Click *Connect USB* in the Updata software.
10. The RX1 firmware update file should still be loaded in the software.
11. Click *Updata* to restart the update process.



12. Repeat the update process for the transmitter (TX1 in update file name) and the control pad (PAD1 in update file name).

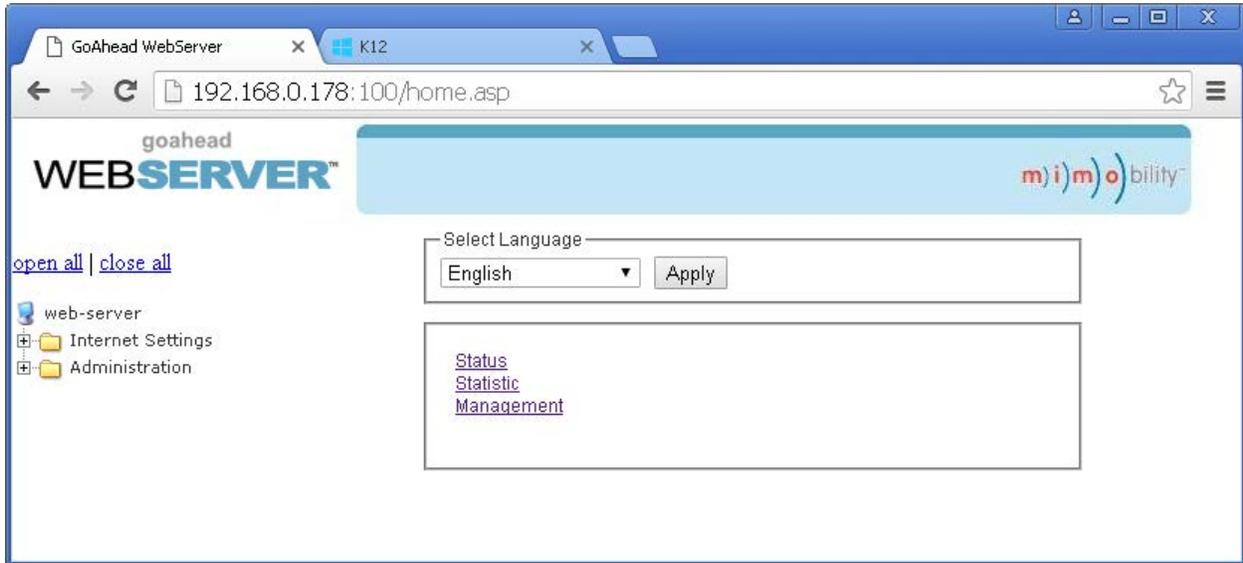
Note: After the update attempt fails for the PAD, the unit will appear to be bricked (i.e. the device will not respond to input, light up, etc.). Successfully complete the update to restore functionality.

13. Once all hardware updates have been completed, unplug the USB cable from the system and PC, close the Updata software, and power cycle the system.

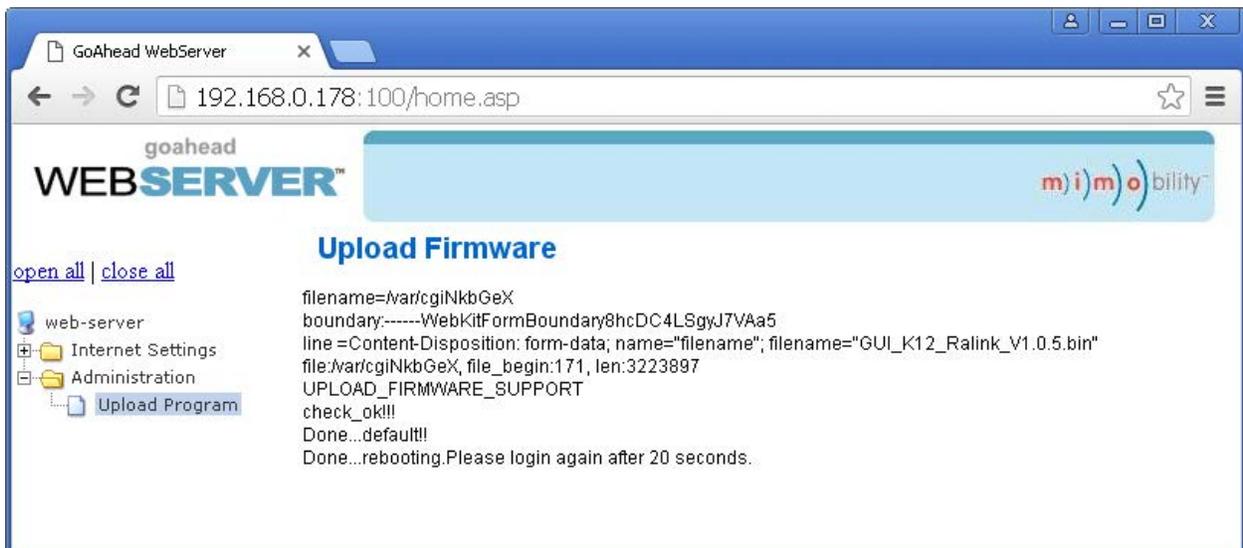
Update the web GUI

1. Open a web browser on the Windows PC with the firmware update software.
2. Navigate to <http://192.168.0.168:100>.
3. When prompted for a username and password, enter *admin* into both fields.

Note: If a dialog box appears reporting “Firmware upgrade success!” or firmware update unchanged, acknowledge dialog and proceed.



4. On the menu on the left side of the web page, click *Administration* followed by *Upload Program*.
5. Select the GUI update file from the firmware update folder.
6. Click *Apply*.
7. Click *OK* in the warning dialog box. The update will take about 30 seconds to install, then automatically reboot the web service.



### Update Complete

This completes the firmware update process for the TL-CAV-01 system. The system can be tested by navigating the browser to 192.168.0.178. Any changes made on this page should affect the hardware and vice-versa. If prompted for a username / password, use admin / admin.

