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# CTADM-806 Installation Manual

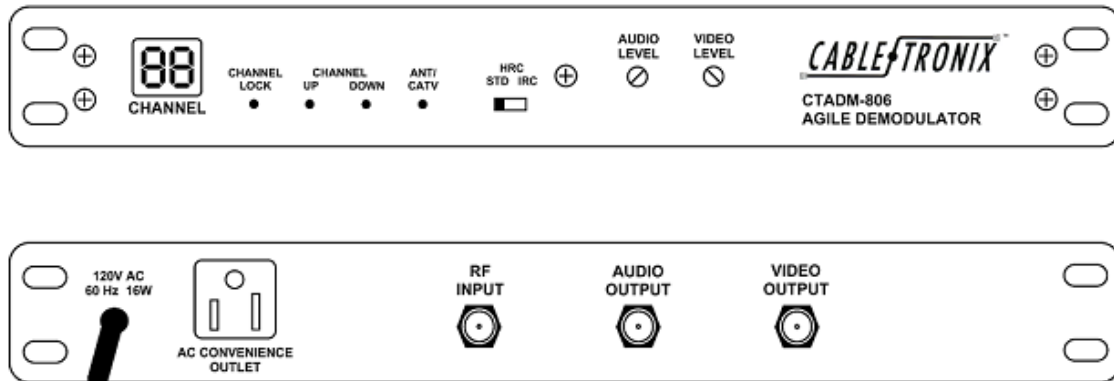
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## This Package Contains:

One CTADM-806 Rack Mount Agile Audio/Video Demodulator  
One Installation Manual

## Product Diagram and Description:



## Hardware Connections:

1. The CTADM-806 is designed for installation in a 19" rack.
2. Connect a 75ohm coaxial cable with F-Connectors from the CTADM-806's **RF Input** port to the Off-Air antenna or other source.
3. Connect a 75ohm coaxial cable with F-Connectors from the CTADM-806's **Audio Output** port to the modulator's Audio Input.
4. Connect a 75ohm coaxial cable with F-Connectors from the CTADM-806's **Video Input** port to the modulator's Video Input.
5. Connect the CTADM-806 to an appropriate power source capable of powering this device. Be certain that power source is capable of handling the load if the CTADM-806 and other equipment are being powered by it.

## Channel Selection:

1. The CTADM-806 can demodulate audio and video signals from any CATV channel from 2 to 125 or any Off-Air channel from 2 to 69 in the 54 MHz to 806 MHz frequency range. If demodulating a signal from an Off-Air channel press the **ANT/CATV Button** so **no dot appears in the LED Channel Display**. If a CATV channel is to be demodulated then press the ANT/CATV Button so a dot appears in the LED Channel Display.
2. Set **HRC/STD/IRC Switch** to **STD** unless your signal source is HRC or IRC.

3. Use the **Channel Up / Down Buttons** to select the Off-Air channel (or channel from some other source) to be demodulated. For example, assume Off-Air channel 8 needs to be demodulated and reassigned to CATV channel 35. In this example use the CTADM-806's Channel Up / Down Buttons to select channel 8. Remember, if an Off-Air channel is to be demodulated then a dot should not appear in the LED Channel Display.
4. Push the CTADM-806's **Channel Lock Button** to lock the channel selection and prevent any accidental channel change.
5. Go to the **modulator**.
6. Set the modulator to **CATV mode**.
7. Set the channel on the modulator if an agile modulator. If a fixed frequency modulator, ensure the output channel is correct. In the example above, the new channel would be channel 35. You should then see Off-Air channel 8 on CATV channel 35.

### **RF, Audio and Video Level Settings:**

1. RF input level should be 8 dB for optimum performance.
2. Audio level setting from the CTADM-806 should be 0 dB. Adjust as necessary
3. Video level setting from the CADM-806 should be 140 IRE or 1 V Peak-to-Peak. Adjust as necessary
4. If the CTADM-806 audio and video levels are in spec, but audio volume and video brightness need adjustment then those adjustments should be made at the modulator, not the CTADM-806.

### **Trouble Shooting and Trouble Prevention Tips:**

1. Ensure you are using quality cables with radial crimp or other compression F connectors.
2. Ensure the F connector's center conductor is making solid contact with the CTADM-806's **RF-Input, Audio Output, and Video Output** connectors.
3. Make sure the **ANT/CATV Button** is set appropriately when assigning Off-Air or CATV channels for demodulation. Selection should be done as:
  - Off-Air channel to be demodulated      NO DOT in the LED Channel Display
  - CATV channel to be demodulated      DOT in the LED Channel Display
4. If the CTADM-806 is not receiving power make sure the power cord is firmly connected to the power source/outlet. Be sure the power source is properly rated to handle the CTADM-806 load especially if other equipment is being powered by that same source.
5. If the CTADM-806 is receiving power but no signal, check to be sure the video/audio source cable (e.g., Off-Air antenna) is firmly connected to the **CTADM-806's RF-Input** connector.

6. A snowy picture may indicate the need for more gain, or in the case of an Off-Air antenna possibly a larger antenna. Make adjustments consistent with design specs using appropriate test equipment and the **modulator's RF level control**.
7. A picture with sparkle may indicate too much gain. Make adjustments consistent with design specs using appropriate test equipment and the **modulator's RF level control**.

Further troubleshooting assistance can be found on-line at [www.northamericancable.com](http://www.northamericancable.com) in addition to support from Cabletronix's sales engineers at 1-610-429-1511.