

# CTARM-4 Installation Manual

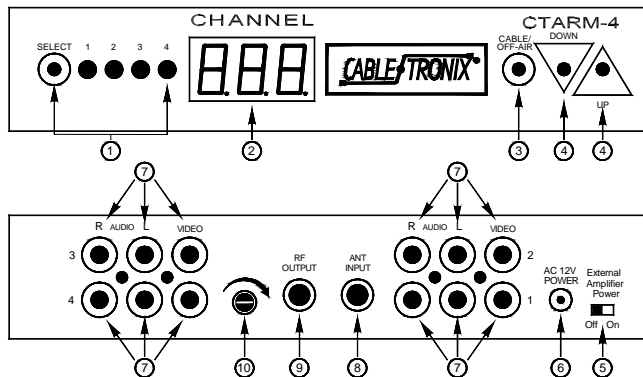
## This Package Contains:

- One CTARM-4 Modulator
- One CTAMP Amplifier
- One Power Adapter
- One F(male) to F(male) Adapter
- One Installation Manual

If any of the contents listed above were not included with your CTARM-4 package, please call us at 1-610-429-1511 for assistance.

**Don't plug AC power until you read this manual.**

## Product Diagram and Description:



**External Amplifier Power switch ⑤ must be switched to OFF if you don't use the CTAMP.**



- ① Quad modulator programming selector button
- ② LED Channel Display
- ③ CATV / Off-air toggle button
- ④ Channel up / down programming buttons
- ⑤ External Amplifier Power switch (power injected at RF output port)
- ⑥ AC Power Jack
- ⑦ 4 audio (right & left) & video inputs for each modulator
- ⑧ Antenna or CATV input ('F' jack)
- ⑨ RF output (combined with antenna input)
- ⑩ RF gain control

**The LED channel display will turn off after two minutes to save energy. This does not affect the modulator's operation. To turn it back on, press any button.**

Note: The 4 modulators (designated 1,2,3,4) are independent and have separate audio/video inputs, corresponding to the modulator that has been selected on the front panel. You may use any or all modulators as needed. This feature allows for easy future expansions and upgrades.

## Hardware Connection:

1. Connect the RCA cable from the **video source** (e.g., satellite receiver, VCR, video camera) to the **yellow RCA IN jack** on the CTARM-4 modulator.
2. Connect the RCA cable from the **audio source** to the **red/white RCA IN jack(s)** on the CTARM-4 modulator. Use red and white jacks for dual input, or either one for single input.
3. If you want to combine your signal with Off-Air or CATV signal, connect the coaxial cable from the Off-Air antenna or CATV to the **Antenna Input** port.
4. Connect the RF output from the CTARM-4 to your RF distribution system, or directly to a television set.
5. If you want to improve the output power (approximately 10dB), please connect the input port of CTAMP Amplifier to the output of the CTARM-4 modulator by using the F(male) to F(male) adapter and switch the slide switch of the External Amplifier Power to ON, otherwise leave in the OFF position , then connect the RF output from the CTAMP to your RF distribution system, or directly to a television set.

## Channel Selection and Power Adjustment:

1. Use the **SELECT switch** on the front panel to select modulator 1,2,3, or 4.
2. Push the **UP or DOWN switch** to set the desired channel. You can select either CATV compatible channels or Off-Air compatible channels by pushing the **CATV/Off-air Toggle switch**. After about 15 seconds the channel will be automatically stored in the modulator's memory. In the event of a power outage the channel will be saved in memory.
3. To adjust the signal output of the CTARM-4 modulator, use a screwdriver and gently rotate the **RF Gain knob** on the back of the unit. Rotate the knob clockwise to increase the output, counter-clockwise to decrease the output.