

CTARM-2LTIR Installation Manual

This Package Contains:

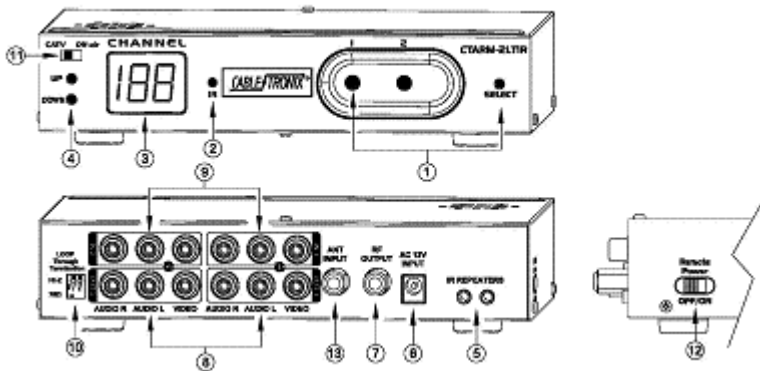
One CTARM-2LTIR Modulator
One Installation Manual
One Power Adapter

If any of the contents listed above were not included with your CTARM-2LTIR Modulator, please call us at 1-610-429-1511 for assistance.

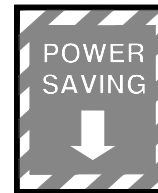
Don't plug in AC power until you read this manual.

Remote power output switch noted (12) must be switch to OFF if you don't use the unit with CTIRE-38 IR engine or the CTIRT infrared targets.

Product Diagram and Description:



- 1 **Dual Modulator Selector**
- 2 **IR Signal Indicator:**
LED flashes when the remote signal hitting
- 3 **LED Channel Display**
- 4 **Channel Up / Down Switch:**
For channel selection, set with the Up/Down Buttons
- 5 **IR Repeater Jacks**
- 6 **AC Power Jack 12 VAC**
- 7 **RF Output (F-Type Connector):**
Screw on an RF terminator if not in use
- 8 **Audio (right & left) and Video Loop Through Ports**
- 9 **Audio (right & left) & Video Inputs for 2 independent modulators**
- 10 **Input Impedance Selection (75Ω or Hi-Z):**
To allow stereo audio and video to pass through the unit set switch to Hi-Z for loop through otherwise setting should be 75Ω to terminate the input
- 11 **CATV/Off-Air Switch**
- 12 **Remote Power Output Switch:**
DC 12V exists at RF output Port when set to ON to power the CTIRE-38 infrared engine and the CTIRT infrared targets
- 13 **Antenna Input (F-Type Connector)**
Screw on an RF terminator if not in use



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 2 modulators (designated 1 and 2) 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. Any unused one will allow you for future expansions.

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-2LTIR modulator.
2. Connect the RCA cables from the audio source to the red/white IN 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. For consumers having home theater systems or wanting to maintain stereo audio and baseband video at the source the CTARM-2LTIR offers loop through capability. After making the above connections attach RCA patch cords from the stereo tuner's left and right IN jacks to the left and right LOOP THROUGH jacks on the CTARM-2LTIR. Then set the **Video Impedance** to "Hi-Z".
5. Connect the **RF Output Port** to the **CTIRE-38 IR Engine** for multi-room distribution and uplink remote control signal. If you are not using the CTIRE-38, then connect a **DC passing splitter** to the **RF Output Port**. It is important to note that not all splitters will pass infrared signals. Infrared passing splitters are required. Using coax, connect one of the splitter's output ports to the television. At the television then connect the **CTIRT** to the **television and the coax coming from the splitter**. The **front of CTIRT** must be facing the general direction of the viewer to ensure it receives the infrared signal from the remote control. Use the splitter's remaining output ports to connect to other CTIRTs/televisions in the home. Although the CTIRE-38 IR Engine is an accessory, its built-in splitter and amplifier provides a more practical and robust solution for homes having multiple televisions and an existing in-home cable network.
6. Set the **Remote Power Output Switch** to ON in order to power the TV-installed CTIRT infrared targets and the CTIRE-38 IR engine.
7. Connect the IR emitter (single CTIR-1 single, CTIR-2 dual) to the **IR Repeater Jacks**. The IR emitter should be mounted near the front of the video source (VCR, DVD player, etc.) to ensure the device receives the infrared signal transmitted from the remote.

Channel Selection:

1. Use the SELECT switch on the front panel to activate the modulator 1 or 2. However, you need to set the channel in which it is at least 2 channels apart. (e.g., 65,67,69,71...)
2. Push the UP or DOWN switch to set the video device to a desired unused channel. The UP/DOWN switches will only affect the selected modulator. You can select either CATV compatible channels or off-air compatible channels by switching the **CATV/Off-Air Slide 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. Should you decide to reassign a video device to a different unused channel follow the same steps as above.
4. Repeat the above steps to assign a video source to the second modulator.

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

NOTE: Infrared (IR) splitters must be used in the home distribution network for the infrared remote control capability to work. If unsure whether IR splitters are being used, contact Cabletronix technical support for assistance at 1-610-429-1511

Available Accessories:

CTIRE-38	8 output infrared engine
CTIR-1	Single infrared repeater/emitter
CTIR-2	Dual infrared repeater/emitter
CTIRT	Infrared Target

For infrared remote capability a CTIRT is required for each TV in the home from where a remote will be operated. In addition, a CTIR- 1 or CTIR-2 will be required for each video source (VCR, DVD player, satellite receiver, etc.) that is to be used with the modulator.

The CTIRE-38 will support up to 8 TVs and includes a built-in amplifier. The CTIRE-38 may be required if there are long cable runs in the home. Contact your dealer to determine whether the CTIRE-38 is appropriate for your installation.