

# CTARM IR Series

## Residential Digital Agile Modulators With Infrared Capability

**NEW!!!**

### Product Description

The CTARM IR series of residential digital frequency agile modulators allow for the insertion of multiple video and left and right audio signals from a variety of devices including satellite receivers, VCRs, DVD players, and security cameras on user selected TV channels. These modulators create a separate TV channel for each video device, combine the new channels with cable or broadcast TV channels, and route the output to all TVs in the home via existing cable outlets.



CTARM-4IR

The CTARM IR series contain the same high quality features as the CTARM-1, 1LT, 2LT, 3, and 4, but with the addition of infrared capabilities. This allows a user to view a modulated signal in a location separate from the location containing the modulator and video source while retaining the ability to change channels on the video source from the remote location.

Example: A DVD player located in the living room can be modulated on channel 105 so it can be viewed in the bedroom. The DVD remote can be used in the bedroom to control the DVD player. The remote control signal is transmitted through the same coaxial cable that carries the RF signal to the bedroom television.

The CTARM-1LTIR, CTARM-2LTIR and CTARM-4IR are respectively Single, dual, and quad input modulators. Each is housed in a low profile case with channel output selection buttons and LED channel display. Non-volatile memory is included to remember channel assignments in event of power failure. The IR series modulators are equipped with a keyhole for wall mounting.

### Application

The CTARM LT series of modulators allow consumers to watch what they want from any home TV without having to pay for extra VCRs, DVD players, cable boxes, satellite receivers, or surveillance monitors. For those consumers having home theater systems, these modulators preserve stereo audio at the source. The modulators also allow a consumer to introduce a new "video service" such as home security cameras to their existing cable system without additional wiring. In this example, a consumer could now monitor the security camera from a designated channel on any TV in the house at any time.

CTARM-1LTIR	1 Channel Modulator
CTARM-2LTIR	2 Channel Modulator
CTARM-4IR	4 Channel Modulator
CTIR-1	Single Infrared Repeater
CTIR-2	Dual Infrared Repeater
CTIRT	Infrared Target
CTIRT-LED	Infrared Target with LED
CTIRE-38	8 Output IR Engine
CTIRE-PS	Power Supply for CTIRE-38
CTIR-IA	Infrared Adapter

### Extended Warranty

Extends standard 1 year warranty to 3 years  
**CTARM-1LTIR WARRANTY**  
**CTARM-2LRIR WARRANTY**  
**CTARM-4IR WARRANTY**  
**CTIRE-38 WARRANTY**

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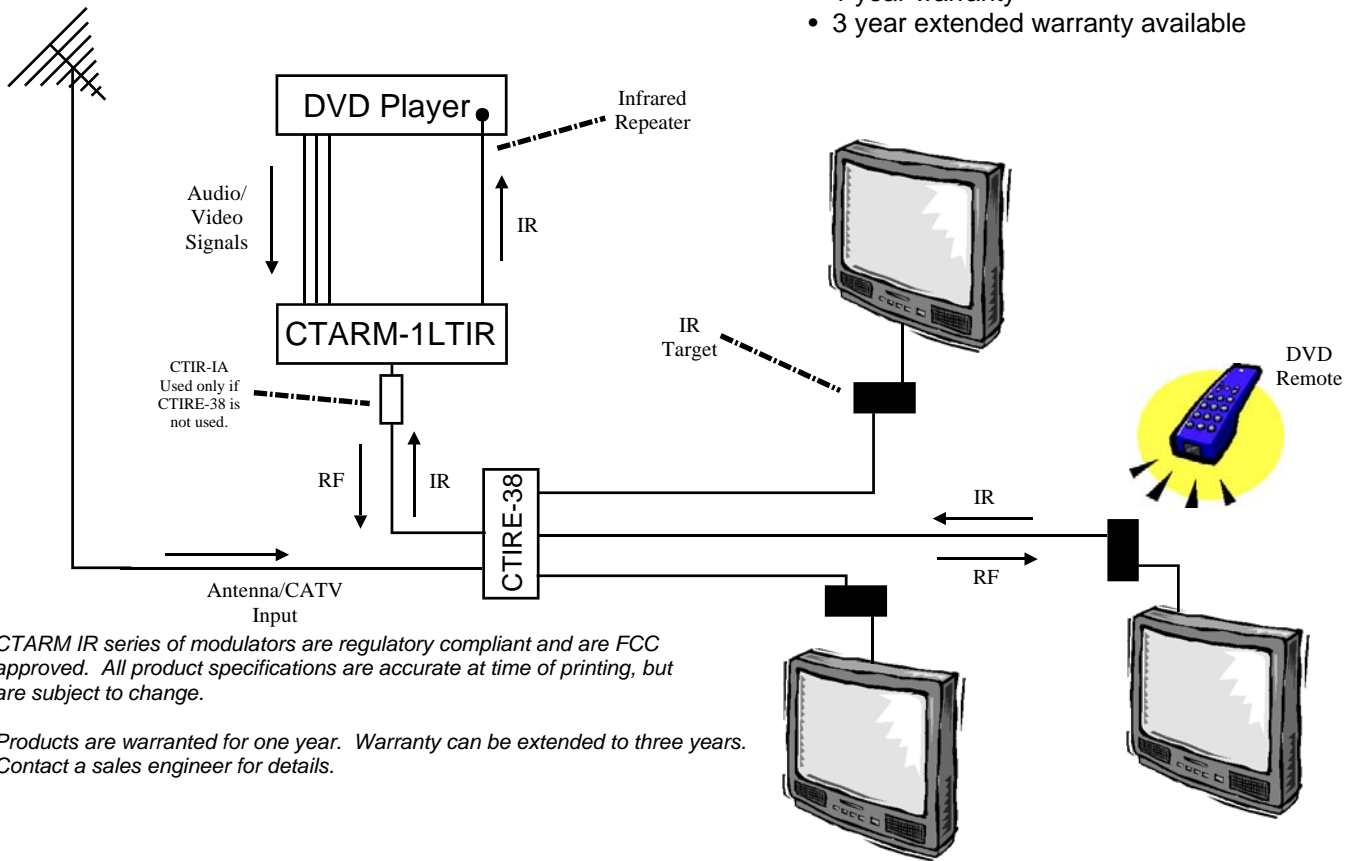
## Residential Digital Agile Modulators With Infrared Capability

### Modulator Specifications

Output Frequency	468-862 MHz
Output Standard	NTSC
Output Channel Range	UHF 14-78 CATV 65-135 (excluding 95 to 99)
Number of Modulators	CTARM-1LTIR (1) CTARM-2LTIR (2) CTARM-4 (4)
Output Power	25 dBmV Typical
Output Power Adjustable Range	0-10dB Typical
Output Connector	"F"
Audio Input	2X RCA for each modulator
Video Input	1X RCA for each modulator
Audio Output	2X RCA for each modulator
Video Output	1X RCA for each modulator
Antenna Input	1X F Connection
Frequency Stability	+/- 25 KHz Typical
Video Input	1V Peak-to-Peak
Audio Input	300mV Peak-to-Peak
Video Modulation Index	87.5% Typical, 82.5% Minimum
Weight	1lb. 12oz.
Size	7 3/4" W x 1 1/2" H x 6 1/4" D
Power Requirement	115V, 60 Hz AC power adapter included

### Features and Benefits

- Infrared Capabilities
- Extended channel range UHF 14 to 78 and CATV 65 to 135 (excluding 95 - 99)
- RF output gain control
- Dual RCA audio inputs directly on the unit
- Audio and Video AGC
- Recessed front panel control to avoid accidental channel changing
- Precise digital PLL control
- Multiple video content distribution to all TVs in the home without the purchase of additional video devices
- Compatibility with all standard consumer video and security devices and NTSC TVs ensures investment protection
- Separate RF amplifier supplied to maintain signal quality
- Combined left/right inputs
- 1 year warranty
- 3 year extended warranty available



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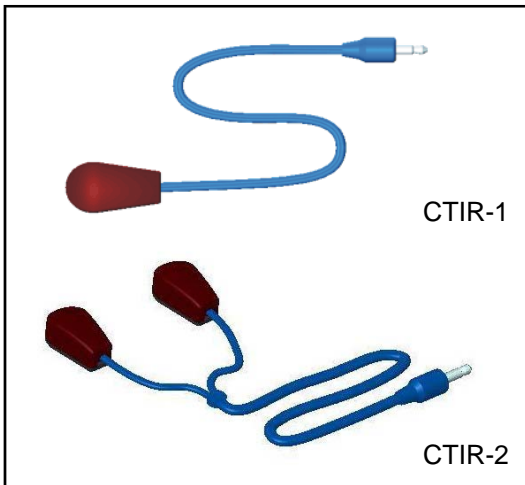
## Residential Digital Agile Modulators With Infrared Capability



CTIRE-38

The CTIRE-38 is a 3 input, 8 output video distribution unit with an integrated IR engine. One input is designed for a CATV or local antenna signal. The other two inputs are designed for inputs from modulators. The unit can be powered either from one of the modulators or from a separate, external power supply. The unit has a convenient IR output port that can accommodate a single or dual IR emitter. An internal amplifier provides unity gain to compensate for the internal eight way split.

The CTIRE-38 is designed to provide a clean, professional residential installation. By eliminating the need for separate splitters, combiners and amplifiers the CTIRE-38 will save time during the initial installation and also avoid the need for costly service calls.



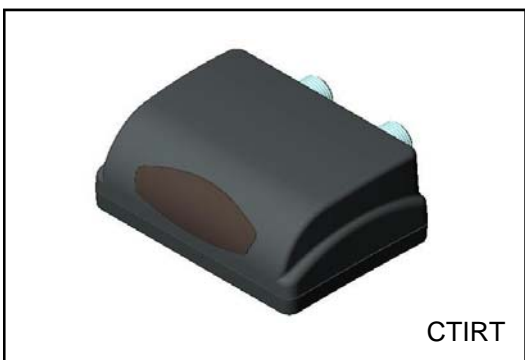
CTIR-1

CTIR-2

The CTIR-1 and CTIR-2 are single and dual infrared emitters. Each unit has a 5' cord with a stereo mini plug. The CTIR series emitters are both 5 and 12 volt compatible. The IR emitters are placed over the IR sensor windows on the video device (VCR, DVD, Satellite Receiver) that needs to be controlled from a remote location. They must be used in conjunction with an IR target that inserts the IR remote control commands onto the coaxial cable distribution at the remote viewing location.

In order to extract the IR signal from the distribution the IR emitter is plugged into an IR port on any CTARM IR series modulator or the IR port on the CTIRE-38 video distribution unit.

**Tech Tip:** Make sure that all of the distribution devices used in the distribution are IR compatible. This includes all splitters, amplifiers and whole house distribution systems.



CTIRT

The CTIRT is an infrared target that is inserted in the coaxial cable line between the wall plate and the television at the remote viewing location. It is used to insert infrared signals from a remote control onto the coaxial cable distribution. The infrared commands are then extracted from the coaxial cable distribution at the centralized distribution origination. The target is remotely powered by the Cabletronix CTARM IR series modulators or the CTIRE-38 video distribution unit. Installation is simple with one coaxial cable input and one coaxial cable output. The unit is housed in a low profile case that is hardly noticed at the viewing location. The CTIRT-LED is also available. This unit has an LED that lights when the target receives a signal from the remote control.