



Coax A/V Agile Demodulator Tuner W/IR Remote Control



User Manual (Model: RFDM2)

RFDM2 Demodulator with IR

1. Product Features :

This coax to composite A/V demodulator is a professional grade NTSC TV channel converter, designed to work with coax TV signals such as cable TV or satellite channels, closed circuit private TV channels or other RF modulated signals to standard video/audio in composite RCA formats for various applications such as displaying, recording, or further A/V broadcast and distribution.

Easy 1-Minute setup. Simply connect the coax cable from your source to the coax input of this converter and then use regular composite A/V cable to connect from the standard video /audio output of this coax converter in RCA type to a TV display. No initial configuration setup needed. No TV channel scan needed.

The operation of this coax video audio converter is 100% hardware operation. Easy cable setup and no compatibility issues.

This coax cable signal agile demodulator can also be used a stand alone TV tuner. Featured with support of full TV channel frequencies and the micro processor inside the unit can decode all standard UHF/VHF TV, CATV and satellite channels.

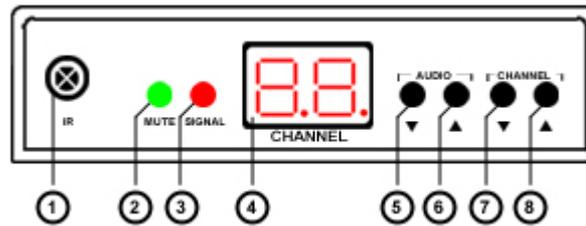
This external TV tuner can be fully operated and controlled via the supplied IR remote controller or the manual push buttons on the front panel of the unit, just like the way you were using the TV remote to flip between channels, mute the TV sound or up the volume.

This unit is compact in size and it is rack mountable if needed for large-scale broadcast TV system or surveillance camera CCTV setup. Multiple units can be daisy chained together on 19" rack using the optional rackmount kits. Rackmount kits are sold separately.



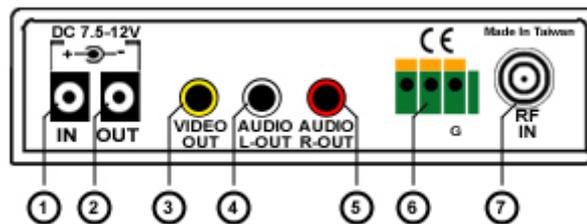
2. Introduction :

Front Panel



- | | |
|---|---|
| <ol style="list-style-type: none"> 1. IR: IR remote sensor/receiver 2. MUTE: Shut off the audio channel 3. SIGNAL: The LED lit on for indication of unit engaging in channel switching. 4. CHANNEL: LED screen for displaying the current TV channel number selected. | <ol style="list-style-type: none"> 5. AUDIO ▼: Volume down (level:16-0) 6. AUDIO ▲: Volume Up(level:0-16) 7. CHANNEL▼: Channel down 8. CHANNEL▲: Channel up |
|---|---|

Rear Panel



- | | |
|--|---|
| <ol style="list-style-type: none"> 1. Power IN: DC 7.5 ~ 12V 300mA 2. Power OUT: Power Loop-Through 3. VIDEO OUT: Composite Video output 4. AUDIO L-OUT: Stereo left audio out | <ol style="list-style-type: none"> 5. AUDIO R-OUT: Stereo right audio out 6. Terminal Block: Optional 7. RF IN: RF coax input |
|--|---|

3. Installation :

- (1)RF Signal Input
- (2)Video Output to Monitor
- (3)Audio Output to speaker
- (4)DC 7.5 ~ 12V 300mA Power Supply

4. LED Channel Display :



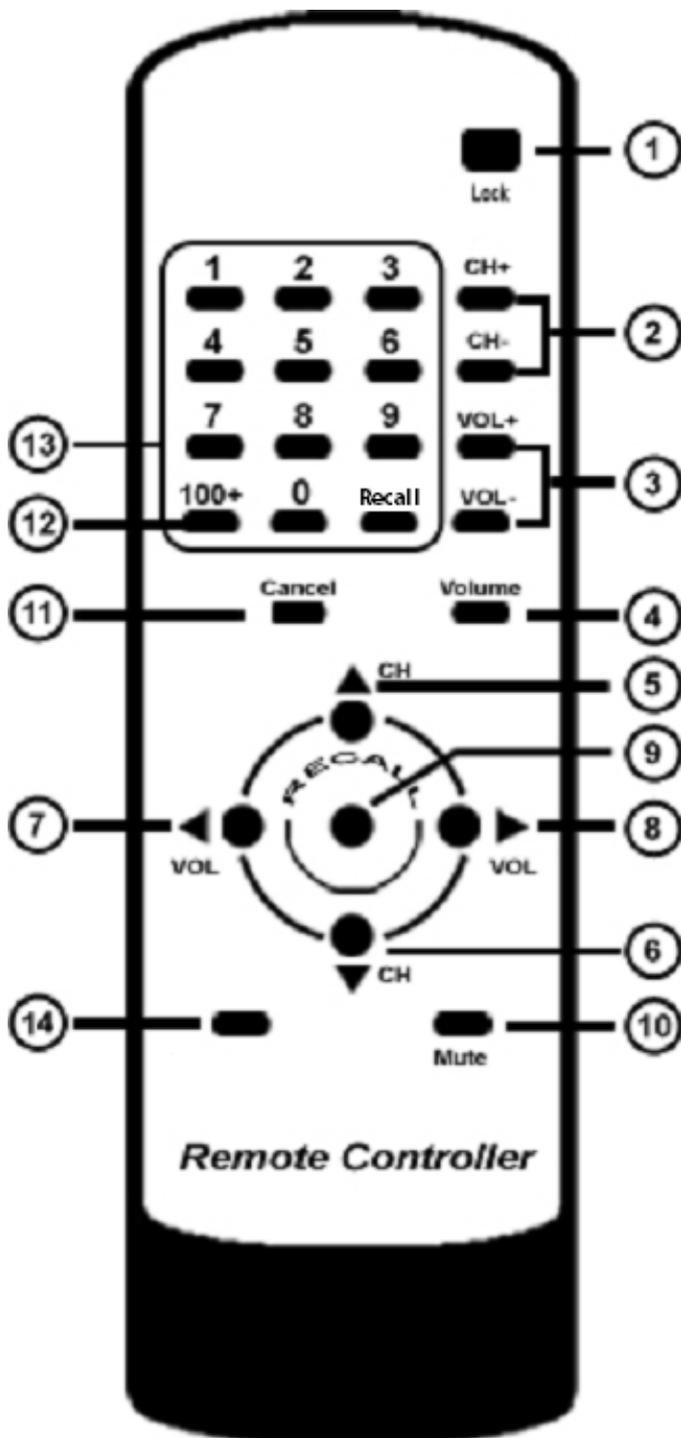
CH100 ~ CH139

For higher TV channel number in 100+ (3 digit display), the channel LED screen will display with a “dot” between the 2 digits displayed on the panel. The “dot” represents the base of 100. So if you see “0.3” on the Channel LED screen, it actually means Ch103 (100 + 03).

For example :

LED Display	Description
03*	CH 3
0.3*	CH 103

5. Remote Controller Outward :



1. **Lock:**
Lock/Unlock specific channel
(work with 14)
2. **Channel Up/Down:**
CH+ : Fast switching channels up
CH- : Fast switching channels down
3. **Volume Up/Down:**
VOL+ : Volume up
VOL- : Volume down
4. **Volume:** Volume level display
5. **CH ▲:** TV channel up
6. **CH ▼:** TV channel down
7. **VOL ◀:** TV volume down (Volume level range : 16 ~ 0)
8. **VOL ▶:** TV Volume up
9. **RECALL:** Return to the previous TV channel selected
10. **Mute:** Mute the TV sound
11. **Cancel:** For re-entry
12. **100+:** Set for higher channel number 100+
13. **Numerical Key Pad:** For manually entering TV channel number
14. **Channel Delete:** Select specific TV channel to be skipped/hidden

6. Remote Controller :

- (1) After installation, you can switch channel by using the remote controller.
- (2) For CH 02 ~ CH99, please enter 2-digit number from the key pad of the IR remote control.

ex. : CH 03 → press 0 and 3
 CH 30 → press 3 and 0
 when you switch channel, the “signal” light is on.

- (3) For CH100 or more, please press 100+ button first and then 2 more digits.

ex. : CH103 → press 100+ + 0 + 3

LED Display	Description
	CH 103

7. Channel Add / Delete (only by remote control) :

- (1) Press , you will see channel number start flashing.

LED Display	Description
	Flashing channel number means that it is in setting mode.

- (2) Tune to the channel number that needs to be skipped/hidden from other users
 With CH▲ , CH▼ or using numerical keys from the remote controller.

(3) Press  button from the remote controller to lock and confirm.

LED Display	Description
	no "dot", this channel is deleted
	If you want the hidden channel back, just press  again. You can see a " dot " there.

(4) Press , setting is completed.

Specification	
Channel Display	Digital LED Channel Display
Channel	CATV (NTSC) system / CH2 ~ CH139
Frequency Range	48.25MHz ~ 883.25MHz
Input Level Range	-5 ~ +30 dbmv
Video Output Level	1Vp-p \pm 0.2Vp-p (75 ohm)
Connector	RF Input : " F " type, Female Composite Video Output : RCA Jack Stereo Audio L-Output : RCA Jack Stereo Audio R-Output : RCA Jack DC Power IN / OUT : DC Jack
Noise Figure	10 dB maximum
Dimensions (WxHxD)	117 x 31 x 143 (unit:mm)
Power Consumption	1.5 watts
Temperature Range	0°C~40°C
Power Requirements	110V AC, DC7.5 ~ 12V / 300mA 