



Coax A/V Agile Demodulator TV Tuner



User Manual (Model: RFDM1R)

RFDM1R Demodulator

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 manual push buttons on the front panel just like the way you were using the TV remote to flip between channels, mute the TV sound or up the volume.

Optional IR remote control function is available as well. IR remote controller is sold separately.

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.

19" 1U Kit



19" 2U Kit



19" 3U Kit

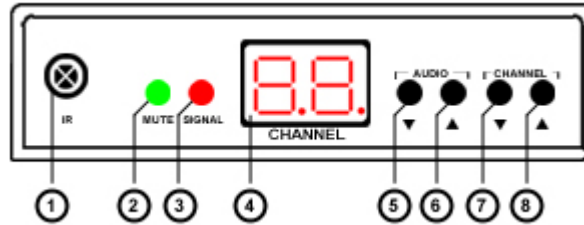


19" 3U Kit



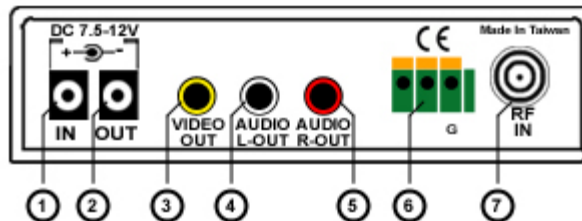
2. Introduction :

Front Panel



- | | |
|--|---|
| 5. IR: IR remote sensor/receiver (optional) | 1. AUDIO ▼: Volume down (level:16-0) |
| 6. MUTE: Shut off the audio L/R channel | 2. AUDIO ▲: Volume Up(level:0-16) |
| 7. SIGNAL: The LED lit on for indication of unit engaging in channel switching. | 3. CHANNEL ▼: Channel down |
| 8. CHANNEL: LED screen for displaying the current TV channel number selected. | 4. CHANNEL ▲: Channel up |

Rear Panel



- | | |
|--|--|
| 1. Power IN: DC 7.5 ~ 12V 300mA | 5. AUDIO R-OUT: Stereo right audio out |
| 2. Power OUT: Power Loop-Through | 6. Terminal Block: Optional use for RS485 |
| 3. VIDEO OUT: Composite Video output | 7. RF IN: RF coax input |
| 4. AUDIO L-OUT: Stereo left audio out | |

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 :



CH 100- CH 139

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 “2.3” on the Channel LED screen, it actually means Channel 123 (100 +23).

Example :

LED Display	Description
13*	CH 13
1.3*	CH 113

VHF/UHF Setup

The default setting for our RFDM2 is for CATV channel range. To reset RFDM2 unit for VHF/UHF air TV channels. Please follow the steps below:

1. Power on the RFDM2 unit first. The LED screen on the front will display the system status in “nC” or “nA”. The factory default of each RFDM2 is set for “nC”.

nC : standing for CABLE cannel system

nA : standing for AIR channel system

2. Press and hold the CHANNEL Down button for 10 seconds (do not release the button). Wait until the LED digit screen starts to flash, then release the button.

3. Once the LED screen starts to flash, RFDM2 unit will display “01” flashing alternatively, which means that the unit is ready for new setup.

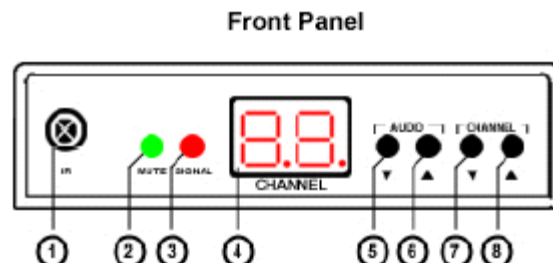
At this time please press the CHANNEL Down or CHANNEL UP button from the front panel to adjust change the value on the LED screen. There will be only two, “01” and “02”.

01 for “nC” >>>>>>>>>>>> CABLE TV System

02 for “nA” >>>>>>>>>>>> VHF/UHF, Air TV Channels for analog antenna

4. After the adjustment, press and hold the CHANNEL Down button for 10 seconds or wait until the LED digits stops flashing, then release the button.

5. Power off the RFDM2 unit and plug the power supply back on again to confirm if the new setting is effective and displaying “nA” for the new system status.



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	0~40 degrees C
Power Requirements	DC7.5 ~ 12V / 300mA 