

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



**User Manual
(Model: RFDM2-PBG)**

RFDM2-PBG Demodulator with IR

1. Product Features:

This coax to composite A/V demodulator is a professional grade PAL B/G 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.

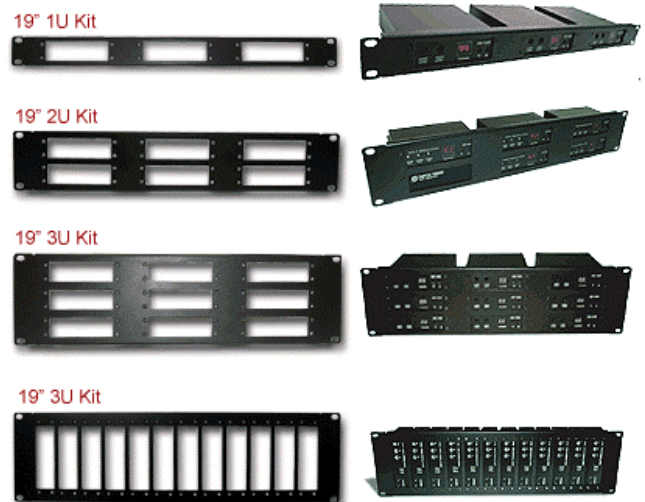
Easy 1-Minute setup. Simply connect the coax cable from your source to the coax input of this converter and then use regular composite A/V cable to connect from the standard video /audio output of this coax converter in RCA type to a TV display. No initial configuration setup needed. No TV channel scan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

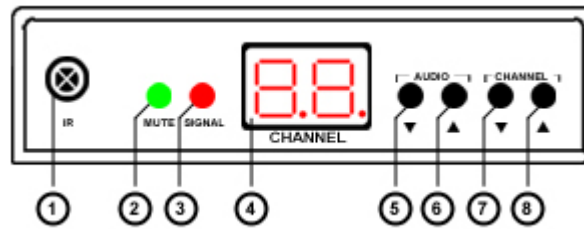
This external TV tuner can be fully operated and controlled via the supplied IR remote controller or the manual push buttons on the front panel of the unit, just like the way you were using the TV remote to flip between channels, mute the TV sound or up the volume.

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.



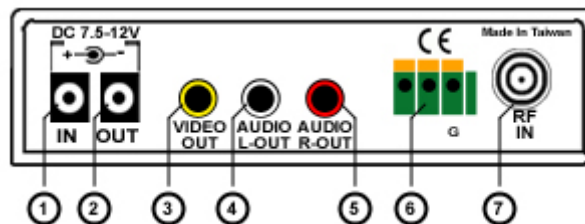
2. Introduction :

Front Panel



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



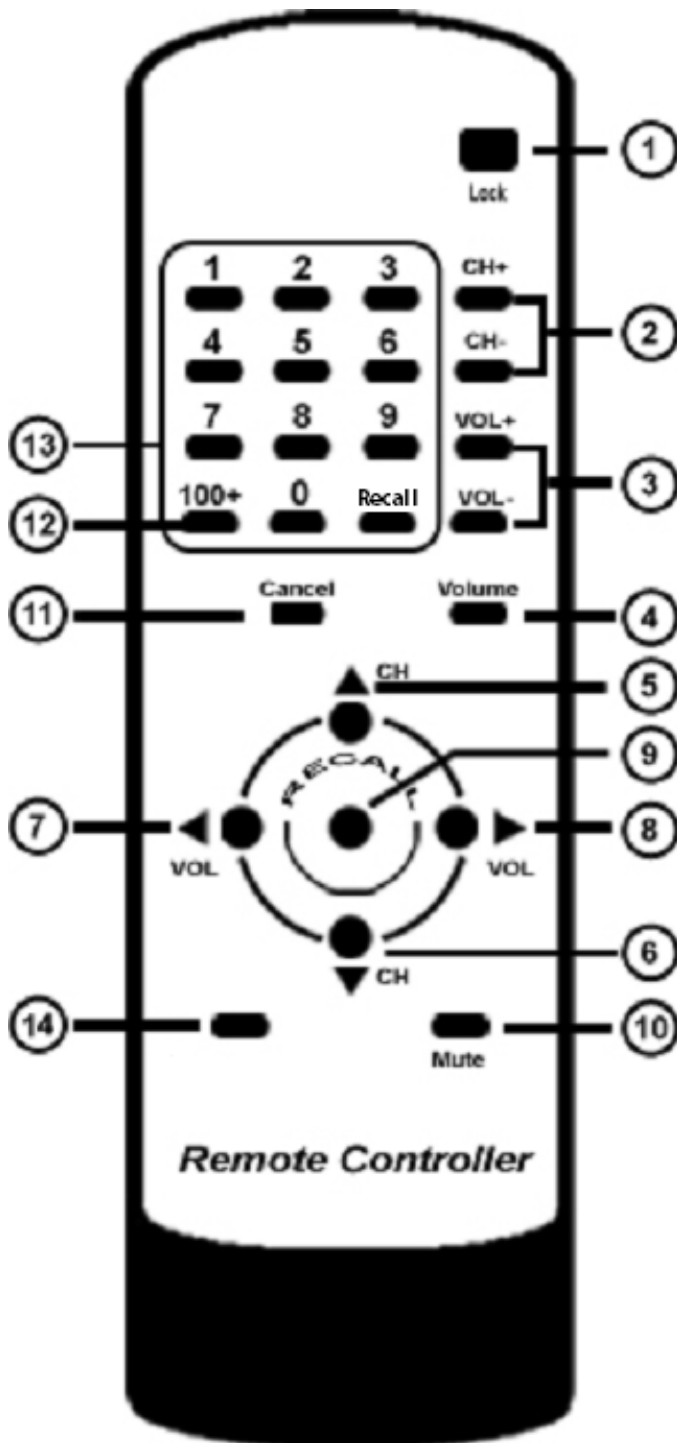
CH 100- CH 139

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 Ch123 (100 + 23).

For example :

LED Display	Description
13*	CH 13
1.3*	CH 113

5. IR Remote Controller Panel :



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 remote controller.

(2) For CH 02 ~ CH99, please enter 2 numbers.

ex. : CH 03 → press 0 and 3

CH 30 → press 3 and 0

when you switch channel, the “signal” light is on.

(3) For CH 100 or more, please press 100+ button then 2 numbers.


ex. : CH 100 → press 100+ + 0 + 0

LED Display	Description
0.0*	CH 100

ex. : CH 110 → press 100+ + 1 + 0

LED Display	Description
1.0*	CH 110

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



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

LED Display	Description
55*	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 **①** 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 ① again. You can see a "dot" there.

(4) Press **⑭**, setting is completed.

Specification	
Channel Display	Digital LED Channel Display
Channel	CATV - PAL B/G system (Ch1 to Ch106)
Frequency Range	48.25 - 860.75MHz
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	AC220-240V, DC7.5 ~ 12V / 300mA 