

TV/Video to VGA Tuner Box

(CM-331T)



Operation Manual

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Introduction

This unit allows you to watch TV or external sources, such as VCR, laserdisc, camcorder, DVD player or video game system on a PC (CRT) monitor. It contains an in built TV tuner with a channel selector.

Precautions

1. Do not expose this product to direct sunlight.
2. Keep the unit away from radiator, heat sources and magnetic field.
3. Do not place it in very dusty or humid locations.
4. Use this unit in a horizontal position only.
5. Do not put heavy objects on top of the converter.
6. Put the unit in an open space that has good ventilation.
7. If the unit is acting abnormally keep the unit away from TV or other electronic equipment.
8. Unplug the unit from the power supply when it is not to be used for a long period of time.

Features

- It allows you to view external video on any PC (CRT) Monitor.
- Automatically accommodates video input systems of NTSC3.58, NTSC4.43, PAL, PAL-M, PAL-N, and SECAM. Tuner input is single system based on the aerial system of the user's country.
- No compatibility issue - No operating system or hardware limitations.
- Compatible with all CM-331T cards.
- Full-screen & True -color TV / Video display.
- Built-in Microprocessor with On-Screen Display (OSD) function. Also built-in IR receiver input for infrared remote control (24 keys).
- Full-channel TV tuner, including broadcast and cable.
- Integral Line Doubler from 30 to 60 frame / sec.
- Supports channel auto-scan and memory as well as automatic fine - tune function.
- Contrast, Brightness, Color, NTSC Tint adjustment.
- One Composite & one S-Video input.
- Compatible with VCR, Camcorder, Laserdisk, DVD, Video Game, etc.
- PC loop through allows for easy switch between video and PC input.
- Soundcard audio pass-through function.
- Sleep Timer function.
- Special effects of Paint, Colour Negative, Red, Green, and Blue pictures.
- Picture frame in Red, Green, and Blue color.

Operation Controls and Function

Front Panel



1. **Power ON/Standby Indicator-** When 12V DC is plugged into the unit, the indicator will illuminate in red colour. Press the power button; the light will turn into a green light, which indicates the status of operation mode.
2. **Power button-** Press the button once to power on the unit. Press again to return to standby mode.
3. **Input Select-** Pressing the button repeatedly will toggle through the 4 input sources available to the unit- TV (RF)- Composite Video- S-Video-PC Bypass.
4. **Channel▼-** This button searches for channels down from the current setting of saved channels.
5. **Channel▲-** This button searches for channels up from the current setting of saved channels.
6. **IR-** Allows you to receive infrared remote control.
7. **Select-** Pressing the button repeatedly will toggle through a number of picture adjustment parameters: Tint-Colour-Bright-Contrast-Effect-Border-Sleep Timer-Mute On/Off-TV/CATV-Auto scan.
 - **Tint-** Adjust the tint level of the picture.
 - **Colour-** Adjust the colour level of the picture.
 - **Bright-** Adjust the level of brightness of the picture.
 - **Contrast-** Adjust the contrast level of the picture.
 - **Effect-** Select one of the 5 effects: mosaic, colour negative, red, green, blue.
 - **Border-** Select one of the 3 picture frame colours- red, blue or green.
 - **Sleep Timer-** Set a pre-determined time for automatically turning off the unit, maximum is 120 minutes.
 - **Mute On/Off-** This button allows you to mute the sound output.
 - **TV/CATV-** Switch between Aerial TV system and Cable TV system.
 - **Auto-scan-** Scan the available channels and memorize automatically.
 - **NOTE- 1.** The TV/CATV and auto-scan are available only when antenna (RF) is selected as input source.
 - **NOTE- 2.** When a parameter is selected, press – or + buttons to decrease or increase the value respectively, or to circle through the various settings under the selected parameter.

8. **“Adjust –”**- Decrease the value of the selected parameter, or jump to the last setting of the selected function.
9. **“Adjust +”**- Increase the value of the selected parameter, or jump to the last setting of the selected function.
10. **Exit**- Press the button to exit the picture adjustment control.

Back Panel



1. **DC 12V**- This is the power supply input port.
2. **RF In**- The Antenna (RF) input connects to the TV Antenna or Cable TV system.
3. **C-V In**- This is the Composite Video input port. It connects to the composite video output of the video source device.
4. **S-V In**- This is the S-Video input port. It connects to the S-Video output of the video source device.
5. **Audio In**- The Audio input connects to the Audio output associated with the Composite Video source or S-Video source.
6. **Audio PC In**- This is the Audio PC input port. It allows you to pass the audio input signal from the computer's soundcard to the speakers. When PC is selected as input source the soundcard audio is automatically passed on to the speakers for normal operation.
7. **PC RGB In**- The PC input port accepts the signal from the PC.
8. **RGB Output**- This is the PC output port. The de-interlaced output connects to the PC monitor.
9. **Audio Output**- The audio output port connects to your audio amp speaker system.

Remote Control

1. **Power**- Switch between Power On and Standby.
2. **Display**- Display input source status on the screen.
3. **TV/CATV**- Switch between Aerial TV systems and Cable TV systems.
4. **Input**- Press the button repeatedly to select the desired input source from TV, C-Video, S-Video and PC Bypass.
5. **Channel ▲▼** - Channel select up or down.
6. **Use key 0-9 for direct channel selection.**
7. **Return**- This button allows you to return to the previously selected channel.
8. **Mute**- This button allows you to mute the sounds output.

9. **Auto-Scan**- Scan the available channels and memorize automatically.
10. **Sleep**- Set a pre-determined time for automatically turning off the unit (1-120 minutes).
11. **Select**- Press the button repeatedly to select the desired adjustment parameter.
12. **Adjust – and +** - Press the button to either increase or decrease the value.
13. **Exit**- This button is used to exit the picture adjustment.

NOTE – this model does not work with LCD panels.

Connection and Installation

The AC adaptor power unit should not be plugged into a wall outlet until all connections are complete.

- Connect the Audio amplifier speakers into the audio output port (Number 9 on rear panel).
- The de-interlaced PC RGB Output port connects to the PC monitor (Number 8 on the rear panel).
- The PC RGB Input port (Number 7 on the rear panel) accepts signal and connects to your PC.
- The audio PC input port (Number 6 on the rear panel) allows you to pass the audio input signal from the computer's soundcard to the speakers. When PC is selected as input source the soundcard audio is automatically passed on to the speakers for normal operation.
- The Audio input connects to the Audio output associated with the Composite Video source or S-Video source.
- Connect either your C-V In or your S-V In video port (Number 3 and 4 on the rear panel) to your video source (VCR, DVD player or video game).
- Connect your antenna to the RF Input port (Number 2 on rear panel).

Once all connections are complete, switch the power button ON and please connect the power supply provided to the power socket.

Specifications

DC Power	12V 800mA Center positive
Audio Input	1 x PC stereo phone jack 350m Vrms. 1 x Video stereo phone jack 350m Vrms.
Audio Output	1 x stereo Audio phone jack 350 m Vrms.
Video Input	1 Vp-p 75 ohm.
S-Video Input	Y: 1Vp-p 75 ohm. C: 0.286 Vp-p @ 75 ohms.
RF Input	75 ohm Coaxial Cable.
CM-331T (From PC) Input	0.7 Vp-p R, G, B plus H and V Sync 3~5Vp-p.
CM-331T (From monitor) Output	0.7 Vp-p R, G, B plus H and V Sync 3.3Vp-p.
Unit weight	500 grams.
Dimensions	265 (D) x 232 (W) x 59 (H).