

TV/Video to VGA TUNER BOX

Watching TV and Video on your PC monitor, or LCD panel

Operation Manual

Chapter 1 - Introduction

1.1 Overview

Thanks for choosing the CM-331T to transform your PC Monitor into a true Multimedia Center. The CM-331T is easy to operate, just touch one key to switch from viewing your computer on your PC Monitor to watching TV or Videos from external sources, such as a VCR, Laserdisk, Camcorder, DVD Player or Video Game. It also provides very high quality sound to your PC's speaker system for the total multimedia experience. Expand your PC with a wealth of new possibilities for entertainment, business presentations, education, even your favorite TV shows, without putting anything inside your PC.

1.2 Features

1. View external video on any PC Monitor.
2. Easy to install and easy to use - External Box with nothing in the PC.
3. Automatically accommodate 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 customers' country.
4. No compatibility issue - No operating system or hardware limitations.
5. Compatible with all CM-331T cards.
6. Full-screen & True-color TV/Video display.
7. Built-in Microprocessor with On-Screen Display (OSD) function.
8. Built-in IR receiver input for infrared remote control (24 keys).
9. One-touch key to switch between PC and external video.
10. Full-channel TV tuner, including broadcast and cable.
11. Integral Line Doubler from 30 to 60 frame/sec.
12. Supports channel autoscans and memory as well as automatic fine-tune function.
13. Contrast, Brightness, Color, NTSC Tint adjustments.
14. One Composite & one S-Video input.
15. Compatible with any VCR, Camcorder, Laserdisk, DVD, Video Game, etc.
16. PC loop through allows for easy switch between video and PC input.
17. Soundcard audio pass-through function.
18. Dimension: 265(D) X 232(W) X 59(H)mm.
19. 120V AC to +12 VDC Power Adapter Included.
20. Sleep Timer function.
21. Special effects of paint, Color Negative, Red, Green, and Blue pictures.
22. Picture frame in Red, Green, or Blue color.
23. One-year Limited Warranty.

1.3 Package Contents

Please check that your package contains one each of the following items:

1. CM-331T Box.
2. Remote Control .
3. Instruction Manual.
4. AC Power Adapter (120VAC to +12VDC).
5. Cable to connect of CM-331T Box to the PC's VGA CM-331T port.
6. 1 x 1R-to-1R video cable.
7. 1 x 2 RCA jack to 1 stereo phone jack cable.

Chapter 1 - Introduction

1.4 Specifications

DC Power: 12V@ 500~800mA

Audio Input: 1 x PC stereo phone jack 350mVrms.

1 x Video stereo phone jack 350mVrms.

Audio output: 1 x stereo Audio phone jack 350mVrms.

Video input: 1Vp-p@75 ohms

S-Video Input: Y: 1Vp-p@75 ohms

C: 0.286 Vp-p@75 ohms

RF Input: 75 ohm Coaxial Cable

CM-331T (from PC) Input: 0.7Vp-p R,G,B plus H&V Sync 3~5Vp-p.

CM-331T (to Monitor) Output: 0.7Vp-p R,G,B plus H & V Sync 3.3 Vp-p

Unit Weigh: 500 grams

Dimensions: 265(D)x 232(W)x 59(H)mm

1.5 Operating Environment

To enhance the CM-331T's reliability, please operate in a normal room environment. Please avoid these conditions:

1. Exposure to excessive heat or direct sunlight.
2. Exposure to strong magnetic field.
3. Exposure to moisture.
4. Subjecting to shock or vibration.

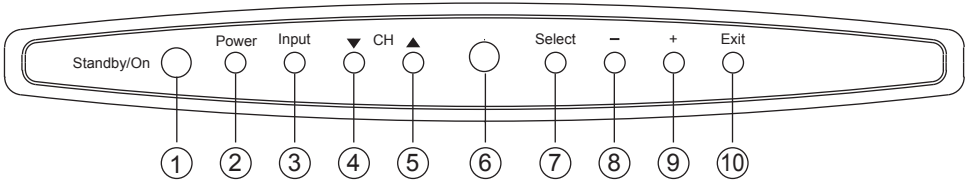
1.6 Read Me First

This guide is provided as an aid for first-time use and to help you understand the basic principles for setting up your new device for trouble-free operation. After pressing the POWER key of remote control first select TV or CATV, then hold down the AUTOSCAN key to scan all available TV (or CATV) channels; then operate the channel selector normally. If you have questions after reading this manual, call or email our Technical Support Group for assistance.

Chapter 2

2.1 Front View

The CM-331T Front View shows the Power On/Standby Indicator, Power Button, Input Select Button, Channel▼, Channel▲, Button, Select Button, Adjust -Button, Adjust + Button, Exit Button.

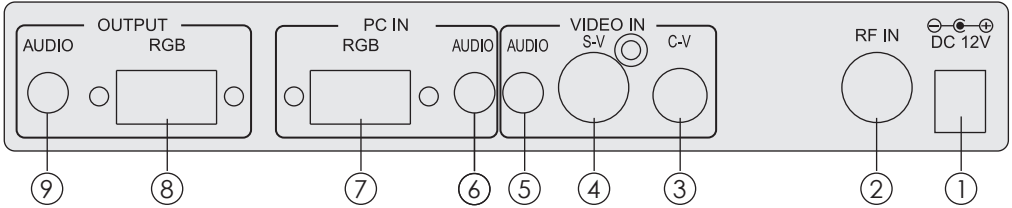


1. Power On/Standby Indicator: When 12 VDC is plugged into the unit, the indicator will illuminate in red color. Press the power button, the LED will turn into green light which indicates the status of operation mode.
2. Power Button: Press the button once to power on the unit. Press again to return to Standby mode.
3. Input Select: Press the button repeatedly will toggle through the four input sources available to the unit- TV (RF)- > Composite Video -> S Video-> PC Bypass.
4. Channel▼: Searches for channels Down from the current setting of saved channels.
5. Channel▲: Searches for channels Up from the current setting of saved channels.
6. IR: Receive infrared remote control.
7. Select: Press the button repeatedly will toggle through various picture adjust parameters as below:
 - Tint — > Color-> Bright- >Contrast-> Effect-> Border- > Sleep Timer-> Mute On/Off-> TV/CATV-> AutoScan.
 - Tint — Adjust the chroma phase of the output picture.
 - Color — Adjust the chroma saturation of the output picture.
 - Bright — Adjust the black level of the output picture.
 - Contrast — Adjust the video level of the output picture.
 - Effect — Select one of the five effects : Mosaic, Color Negative, Red, Green, Blue, picture.
 - Border — Select one of the three picture frame color-- Red, Green, Blue.
 - Sleep Timer — Set a pre-determined time for automatically turning off the unit. Maximum 120 minutes.
 - Mute — Mute the sound output.
 - TV/CATV — Switch between Aerial TV system and Cable TV system.
 - AutoScan — Scan the available channels and memories automatically.
- Note: ① The TV/CATV and AutoScan are available only when Antenna(RF) is selected as input source.
② When a parameter is selected, press - or + button to decrease or increase the value respectively, or to circle through the various setting 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 next setting of the selected function.
10. Exit: Press the button to exit the picture adjust.

Chapter 2

2.2 Rear View

The CM-331T Rear View shows the connectors for the 12-VDC In, Antenna/CATV input, Composite Video In, S-Video In, Audio In, PC In, PC audio In, PC Out, and Audio Out.



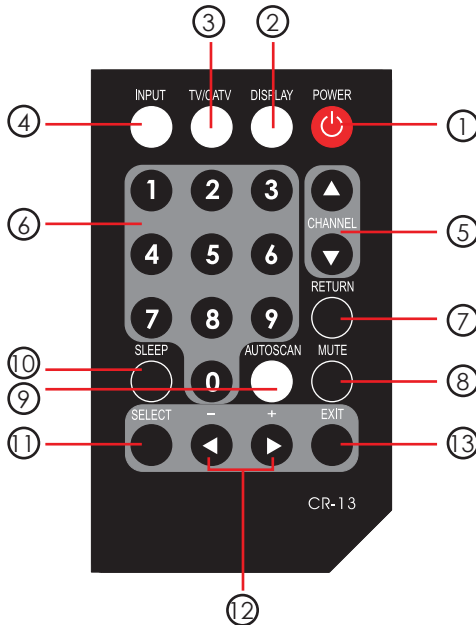
1. The DC input connector provides + 12 VDC for the unit.
2. Antenna (RF) Input connects to the TV Antenna or Cable TV system
3. Composite Video Input connects to composite video output of the video source device.
4. S-Video Input connects to the S-Video output of the video source device.
5. Audio input connects to the Audio output associated with the composite video source or S-video source.
6. PC In accepts the CM-331T signal from the PC.
7. PC Audio In allows you to pass the audio input signal from the Computer's soundcard to the speakers. When PC In is selected as input source the soundcard audio is automatically passed on the speakers for normal operation.
8. PC Out- The de-interlaced CM-331T out connects to the PC monitor.
9. Audio Out-Connects to your Audio Amp speaker system.

Chapter 3 - Remote Control

After turning on your computer, use the Remote Control's INPUT button to switch between video sources and between computer and video. The Remote Control Unit's Keys work the same as any ordinary TV Remote Control and include the basic functions you need for viewing live video. Use the Remote Control buttons to turn on or off, as well as to adjust the output picture.

3.1 Remote Control

- (1) Power : Switch between Power On & Standby
- (2) Display : Display input source status on the screen.
- (3) TV/CATV : Switch between Terrestrial TV systems and Cable TV channel systems.
- (4) Input : Press the button repeatedly to select desired input source from TV, C-Video, S-Video, and PC bypass.
- (5) Channel $\blacktriangledown, \blacktriangle$: Channel select up or down.
- (6) Use key 0-9 for direct channel selection.
- (7) Return : Return to previously selected channel.
- (8) Mute : Mute sound output.
- (9) Auto scan : Scan the available channels and memories 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 $-, +$: Press the button to decrease or increase the value.
- (13) Exit : To exit the picture adjustment.



Chapter4-Connection Diagram

