

VIVID TV BOX VTB-104



Operation Manual

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Introduction

The unit is a state-of-the-art TV to PC Video converter. It easily turns your LCD, CRT monitor, plasma display or projector into a multimedia center with out sacrificing valuable desktop space. With a built-in TV tuner and multiple video ports, you can connect DVD players, digital cameras, VCRs or even game consoles. View corporate presentations or catch the end of the game all in full-screen, high-resolution images.

By means of advanced frame buffer technology and line doubling, the unit can transform your existing standard video from TV, a DVD Player, VCR, Camcorder, Video Game, Satellite Receiver or virtually any other video source into a high quality picture on any display device with an RGBHV (PC-type) or YCbCr (3 RCA connectors) input. It even works with HDTV-ready TV Sets, resulting in dramatically improved video image quality.

The Vivid VTB-104HDTV TV box employs frame-buffering technology, which can significantly increase the quality of images by doubling the standard video lines. It converts the standard NTSC or PAL analog video signal from 15.75KHz up to 31.5KHz horizontal scan rate and provides 480p, 576p or 720p line resolutions for HDTV-ready displays, as well as VGA, SVGA and XGA for PC-compatible displays. The brightness will be significantly increased and the flicker dramatically reduced. In addition its 3:2 pull down auto detection will ensure that video sources will perform smoothly, flicker free and the highest possible image quality.

The TVBOX is compatible with CRT, LCD, plasma and projection displays. A built-in sleep timer automatically shuts off display at pre-determined times. Easy to install and operate, the TVBOX is an external plug-and-play device requiring no software drivers or internal computer installation whatsoever.

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

- Plug & play! No software driver required, no need to uncover the PC case.
- De-interlace function provides high video quality and it gives sharp stable video outputs.
- Supports HDTV outputs for 480i, 480p, 576i, 576p, 720i, and 720p.
- Built-in TV tuner, supports up to 125 channels with fine-tune function.
- Full screen TV display, support VGA, SVGA and XGA display resolutions.
- Provides add-on functions: sleep timer setting, channel editing, favourite channel setting.
- Support 3:2 pull down conversions for film mode.
- Supports MTS for NTSC system; Nicam Stereo for PAL system (option).
- Video output to a CRT/LCD from a VGA port or a Plasma Display / Projector from YPbPr (3 RCA connectors) ports.
- Protection of channel setting: V.chip for NTSC system/USA (option).
- Support 10 pages Teletext (option); closed caption function (option).

Operation Controls and Functions

Front Panel



1. **ⓐ POWER-** Press this button to switch the unit On or Off.
2. **📺 VIDEO SOURCE SELECTION-** Select the video source between TV/Cable, S-Video, AV, Component (Y, Cb, Cr) or PC.
3. **POWER LED / INFRARED RECEIVER-** Lights when the TV BOX is powered up and ready to operate. Receive the Infrared signal from the remote control.
4. **🔊 -** -Decrease the sound volume.
5. **🔊 +** -Increase the sound volume.
6. **▽ -** -Adjust channel decrease.
7. **△ +** Adjust channel increase.

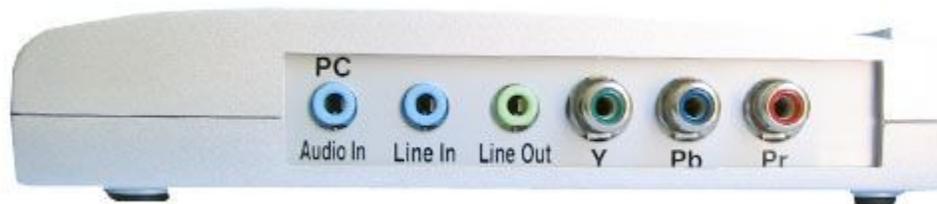
Rear Panel



1. **DC In-** Connect to a 12V power supply.
2. **VGA Out-** Connect your 15-pin Monitor to the VGA output.
3. **VGA In-** Using the 15-pin VGA cable provided, connect one side to the VGA output on your PC and the other side to the VGA In of your TV BOX.

4. **Video-In** - Please connect the external video from VCR, LD/VCD/DVD or video game console to the Video In port.
5. **S-Video-** Please connect it to the S-Video In port when the external Video device is S-Video.
- 6.7.8. **Component (Y, Cb, Cr) Input-** Please connect them to the Component (Y, Cb Cr) In port when the external video device has Y, Cb, Cr Output's support.
9. **RF In (VHF/UHF)-** Please connect your RF cable to RF IN port to receive antenna or cable TV signal.

Side Panel



1. **PC Audio In-** Connect the audio from sound card to Line In port. Thus you should be able to have sound from PC/external speakers even when your TV Box is in stand-by mode.
2. **Line in (AUDIO R&L)-** Please connect the external audio to the Audio In port.
3. **Line Out-** Connect the Line Out to your PC/external speakers.
4. **YPbPr Out-** Using R/G/B Cable (male to male) to connect to YPbPr supported displays or other video devices.

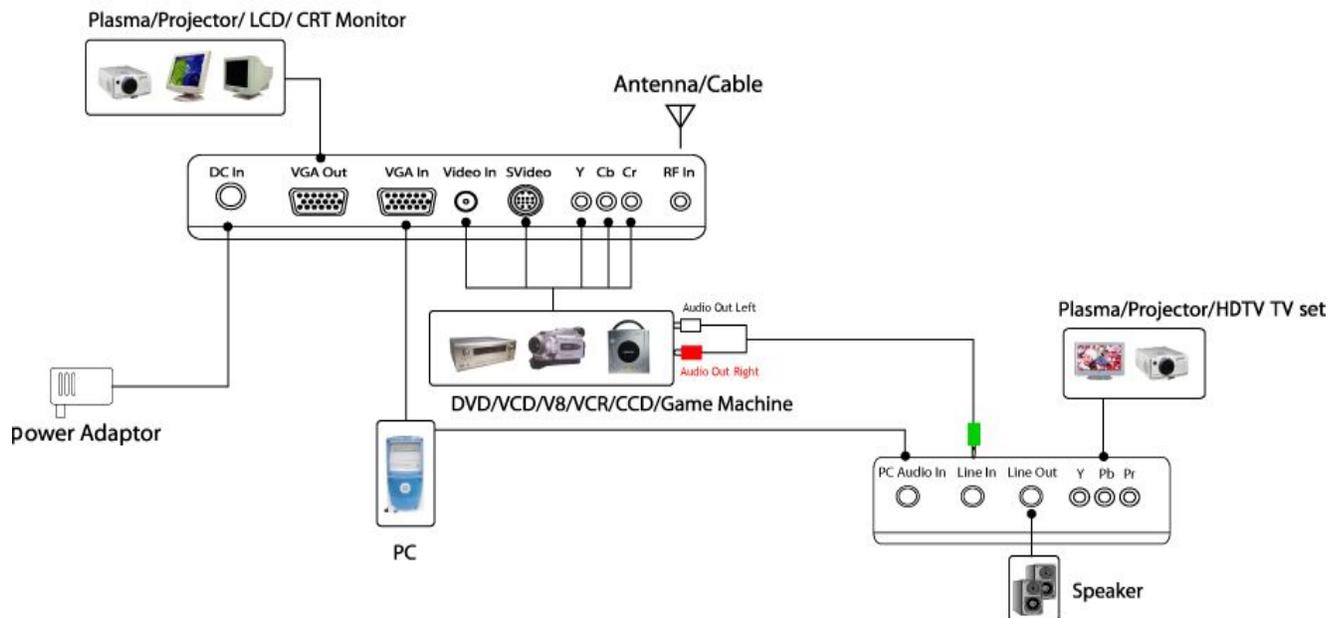
System Installation

Installation



1. To prevent damage to your equipment due to ground potential influence, make sure that all devices on the installation are properly grounded. Consult your dealer for technical details if necessary.
2. Please turn off the power of all devices before connection.

To install the TVBOX for the analog TV and A/V device connection, please refer to the diagram below.



Notes:

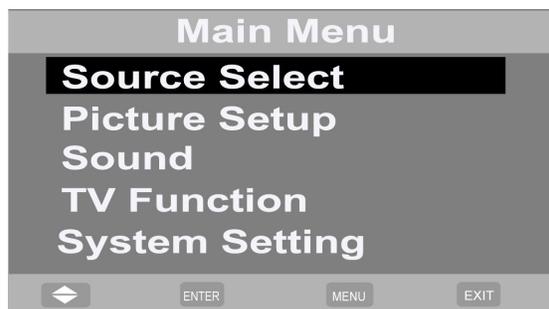
- Audio/Video connection: For audio connection, please use RCA audio (L/R) connector. For video connection, please choose either RCA video connector or S-Video connector.
- Moreover, for connection to a stand alone, please omit those connections associated with PC.

Operation Instructions

Initial Settings

For all function settings of the **TV BOX**, you can use the supplied remote control unit.
Please refer to the following steps below:

1. Install 2 AAA batteries into the Remote Control.
2. Power on the unit or press the Power button on the Remote Control
3. Press the “Source” button to select signal source.
4. Press the “Autoscan” button to scan and memorize all the channels.
5. After the auto scan is finished, please press channel “+”, “-“ or channel number keys to select channels.
6. Press the “Menu” button and the OSD Main Menu window appears.
7. Press **↑** or **↓** to select the OSD Sub Menu
8. Press “ENTER” for the he selected Sub Menu.
9. If you don’t want to select the Sub MENU, press” EXIT” button.



Source Select Settings



Source Select Sub-Menu provides *TV, AV, S-VIDEO, YCbCr* mode selections.

1. In the SOURCE Sub Menu, press **↑** or **↓** button to choose the Video Source; TV; AV; S-video; YCbCr.
2. Press “ENTER” to select the source.
3. Press “EXIT” to return to the Main “MENU”.
4. Power off the TV box and switch to the PC mode

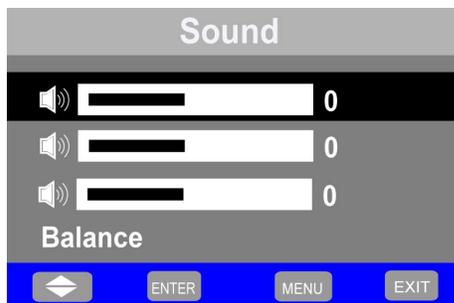
Picture Setting



Picture Sub-Menu provides *BRIGHTNESS, CONTRAST, TINT, SHARPNESS* adjustment modes.

1. In the **Picture** Sub-MENU, PRESS **↑** or **↓** button to choose the required item.
2. Press **←** or **→** button to adjust the selected item.
3. Press **ENTER** to confirm the setting.
4. When finished making all picture adjustments, press the “Exit” button to return to the main menu.

Sound Setting



The **SOUND** Sub-Menu provides **BASS**, **TREBLE**, **BALANCE** adjustment modes.

1. In the SOUND Sub MENU, Press **↑** or **↓** button to choose the required item.
2. Press “Enter” to select the item.
3. To adjust the selected item by **→** and **←** button.
4. When finished, press “Exit” to return to SOUND Sub MENU.
5. Select RESET to clear all adjustment and return to factory setting.
6. When finished, press the “Exit” button to return to the Main MENU.

TV Function Setting



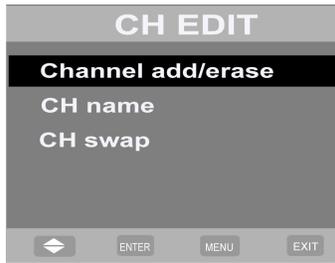
TV Function sub-menu provides **Auto-Scan** and **Channel Edit** functions. Select the functions by pressing the **↑↓** buttons, and then pressing “**ENTER**” to confirm the setting.

Auto-scan



Auto-scan function provides **Full Band**, **Cable channel**, **Air channel** for user manual selection by demand. If you choose Cable channel or Air channel, the system will scan by the built-in frequency table. If there're some channels missing after scanning, please choose the Full Band item to execute the full scan of the system. The Full Band scan time will be longer than Cable channel or Air channel scan. After finishing **AUTOSCAN**, the scanned program channel will be saved.

Channel Edit



The **CH EDIT** function provides **CHANNEL ADD/ERASE**, **CH NAME**, **CH SWAP** functions.

Channel Add/Erase

Select the “**CHANNEL EDIT**” function on the TV Function Screen by pressing the **↑** or **↓** button. Press the “**Enter**” button to enter the function.

Press **↑↓** to move channel up and down. Press **←** or **→** to select “**ADD**” or “**ERASE**” functionality.

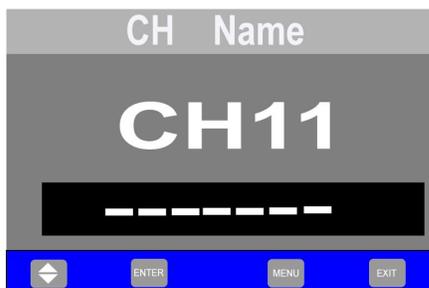


The channels are not actually removed or added but skipped from or recovered to the channel table. You can still select the removed channel by pressing the channel number.

Channel Name

The **CH NAME** function allows you to edit the channel’s name. After you edit the channel name, it will show below the channel number.

Press **↑** or **↓** and “**Enter**” button to enter the **CH NAME** function.

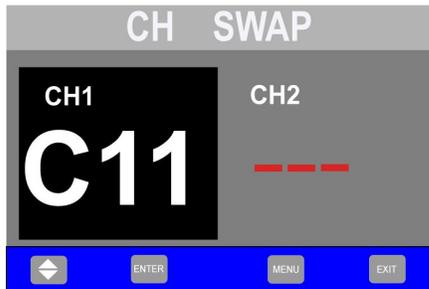


After entered the **CHANNEL NAME** function, Press “**Enter**” and start to edit the channel name.

Channel Swap

Press **↑** or **↓** and “**Enter**” button to enter the **CHANNEL SWAP** function.

The current channel shows at the left side (CH1) and press **←** **→** button to move to the CH2 and press **↑** **↓** button to move to the channel you want to swap.



Specifications

Power	DC 12V, 1.2A
Video Input	Composite video RCA connector
YCbCr (Component) Input	Component video Y.U.V connector
S-Video Input	S-Video 4-pin mini DIN connector
PC Audio In	Phone Jack 3.5φ
Line In	Phone Jack 3.5φ
Line Out	Phone Jack 3.5φ
RF In	F-Female connector for NTSC system EC-Female connector for Pal system
VGA Output	D-Sub 15 pin Female connector
VGA Input	D-Sub 15 pin Male connector
YPbPr Output	3 RCA Jacks (R. G. B)
Power Consumption	15W nominal
Resolution mode	640 x 480, 800 x 600, 1024 x 768
HDTV mode	480 I/P; 576 I/P; 720 I/P
Dimensions (L*W*H)	225 x 160 x 31mm
Weight	2.0 kg