

VIVID TV BOX VTB-100



Operation Manual

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Introduction

The compact unit easily turns your LCD, CRT monitor, plasma display or projector into a multimedia center. With a built-in TV tuner and multiple video ports, you can connect DVD players, digital cameras, VCRs or even game consoles. It provides S-video, composite (RCA) video connectors, audio pass-through and front-panel headphone support.

With advanced scaling technology, the unit provides 3:2 pull down correction that eliminates jitter from DVD movies that originated from motion picture films. Motion and adaptive de-interlacing also improves the clarity and sharpness of the overall image producing sharp, clear, saturated images.

Users can also adjust contrast, brightness, color, hue and channel from the remote control and on-screen menu.

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

- Stand-alone, Plug-n-Play. No software drivers required and no messy PC installation routines.
- No PC compatibility problems & special firmware design for some famous PDPs (Plasma Displays).
- Built-in TV tuner, support up to 125 channels with Fine Tuning function.
- Provide user-friendly OSD (on screen display) to control functions.
- Automatic source standard detection (NTSC/PAL/SECAM for video or S-Video).
- Auto-scan air/cable TV channels, channel rename, and channel editing functions.
- Full screen TV display, support VGA (640x480), SVGA (800x600) and XGA (1024x768) display resolution.
- DE-INTERLACE function provides can provide high quality pictures with sharp & stable image output to VGA/DVI out.

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- Localized TV system menu selection.
- Compatible for multi-signal inputs: TV tuner, Video, S-Video, Component (Y, Cb, Cr) & VGA.
- Support Sleep Timer Setting.
- Available in NTSC/Multi-PAL (BG, DK, I)/SECAM model.
- Re-mapping function for programming your favorite channels.
- Fully functional infrared remote control.
- Supports 3:2 pull-down for film mode.
- Supports MTS for NTSC system & NICAM for PAL.
- Supports 15pin D-Sub graphic card (VGA in); 15pin D-Sub monitor (VGA out) and DVI Monitor (DVI out).
- Supports Teletext (optional) for PAL
- Supports protection of Channel setting: V-Chip (optional) for NTSC system/USA.

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Front Panel



1.  **POWER**


Pressing 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 unit.
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. **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.
7. **RF In (VHF/UHF)-** Please connect your RF cable to RF IN port to receive antenna or cable TV signal.

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Side Panel



1. **Line 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 Out-** Connect the Line Out to your PC/external speakers.
3. **AUDIO (R&L) In-** Please connect the external audio to the Audio In port.
4. **DVI Out (Optional)-** Use the DVI Cable (male to male) to connect to DVI supported Monitor or other video devices.

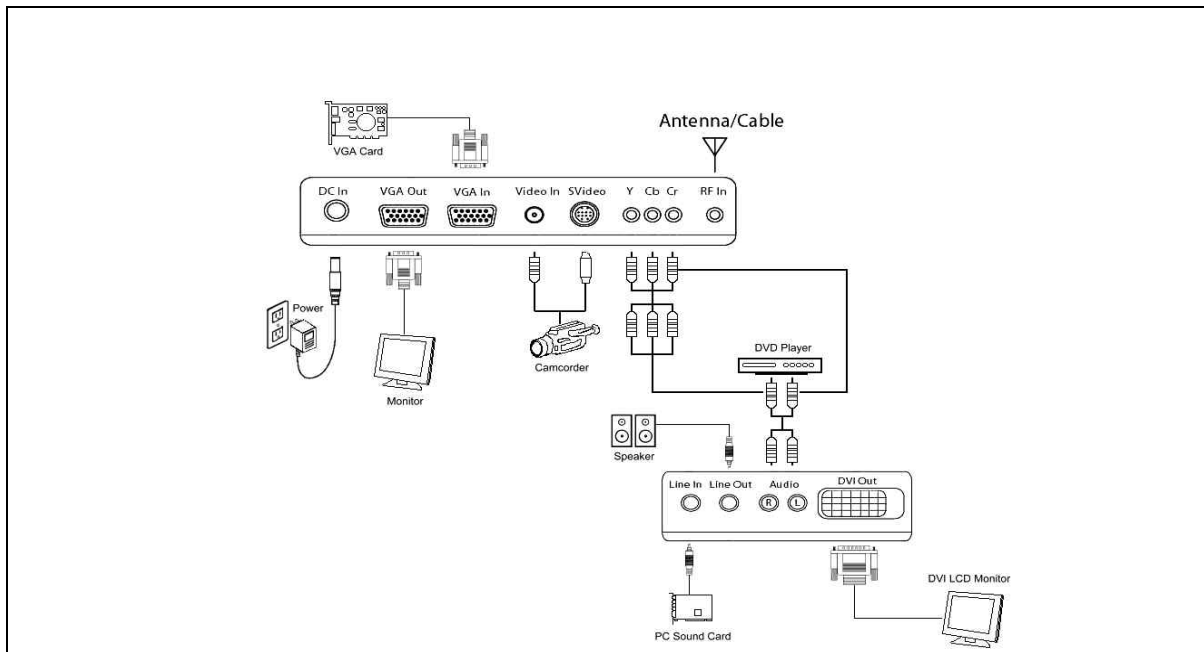
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Connection and Installation



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 unit 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.

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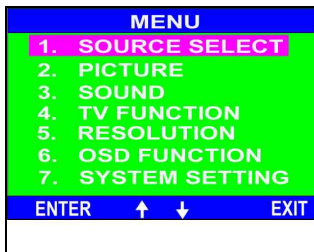
Operation Instruction

Initial Settings

For all function settings of the unit, you can use the supplied remote control unit.

Please refer to the following steps below:

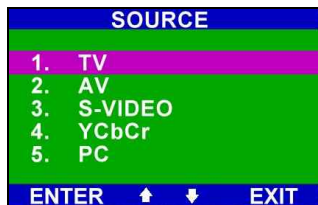
1. Install 2 AAA batteries into the Remote Control.
2. Power on the unit or press the Power button on the Remote Control
3. Press the “Source” button to select signal source.
4. Press the “Autoscan” button to scan and memorize all the channels.
5. After the auto scan is finished, please press channel “+,”-“ 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 Setting

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

1. In the SOURCE Sub Menu, press **↑** or **↓** button to choose the Video Source; TV; AV; S-video; YCbCr; PC.



2. Press “ENTER” to select the source.
3. Press “EXIT” to return to the Main “MENU”.

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PICTURE setting

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

1. In the **Picture** Sub-MENU, PRESS **↑** or **↓** button to choose the required item.

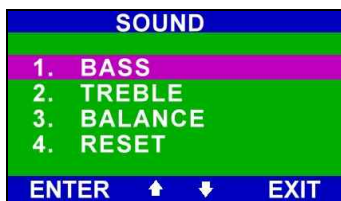


2. Press **←** or **→** button to adjust the selected item.
3. Press **ENTER** to confirm the setting.
4. Select **Reset** to clear all adjustments and return to factory settings.
5. When finished making all picture adjustments, press the “**Exit**” button to return the main menu.

SOUND Setting

The **SOUND** Sub-Menu provides **BASS**, **TREBLE**, **BALANCE** adjustment modes and the **RESET** mode.

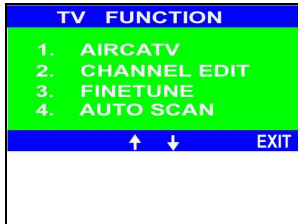
1. In the **SOUND** Sub MENU, Press **↑** or **↓** button to choose the required item.



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 different function selections for the **NTSC** and **PAL** models. Please refer the following diagrams.





NTSC





PAL

- NTSC system

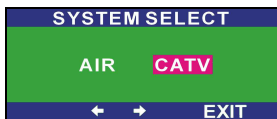
Select *AIRCATV*, *CHANNEL EDIT*, *FINETUNE* and *AUTO SCAN* by pressing the   button, and then pressing “*ENTER*” to confirm the setting.

- PAL system

Select *CHANNEL SWAP*, *CHANNEL RENAME*, *CHANNEL EDIT*, *FINETUNE*, *AUTO SCAN* and *VIDEO STANDARD* by pressing the   button, and then pressing “*ENTER*” to confirm the setting.



1. AIRCATV (for NTSC model only)

Before scanning channels, please select appropriate frequency tables among *AIR* (*ANTENNA*) and *CATV* (*Cable*).



To scan program channels automatically, press the *AUTOSCAN* button. The unit can auto detect the TV system. After finishing *AUTOSCAN*, the scanned program channel will be saved.

2. Channel Swapping (for PAL model only)

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



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The **Original** column remains the present channel number. Key in the channel number you like to swap at the **TARGET** column.

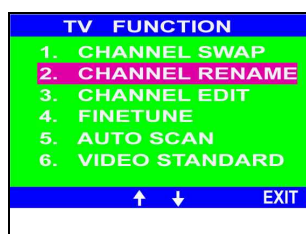


For example, if you want to change the channel 11 to channel 22. Press the number key on the remote control unit. After key in the number 22, the channel 11 will be swapped with the channel 22.

3. Channel Rename (for PAL model only)

The **CHANNEL RENAME** function allows you to edit the channel's name. After you edit the channel name, it will show below the channel number. This function is only available when you select your frequency table to "CATV" in **AIRCATV** function.

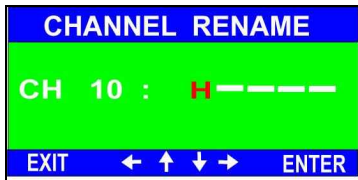
Press **↑** or **↓** and "Enter" button to enter the **CHANNEL RENAME** function.



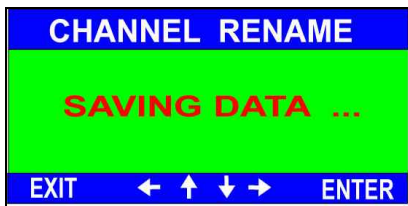
After entered the **CHANNEL RENAME** function, the Channel List dialog will show up. Press the button **↓↑** to select the channel you want to rename then press "Enter" to enter the channel rename dialog.




The **CHANNEL RENAME** function provides 5 characters for user's edit. Press the **←** or **→** to select the character, press **←** or **→** to move to the next character you want to change.




After you have entered the channel name, press “Enter” then the channel name will be saved.



The channel list will depend on the channels you’ve scanned. The scanned channel will be marked with a check, which means this channel is available.

All the channels will be listed on the channel list screen. Each screen shows 10 channels. You can press  to move to the next page.



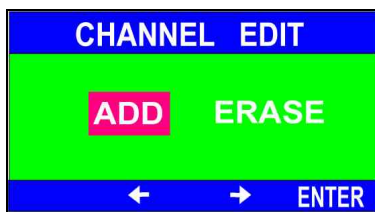
The channel list will depend on the channels you’ve scanned. All the channels will be listed on the channel list screen. Each screen shows 10 channels. You can press  to move to the next page.

4. Channel Editing

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



Press **←** or **→** to select “ADD” or “ERASE” functionality.



Adding a channel.

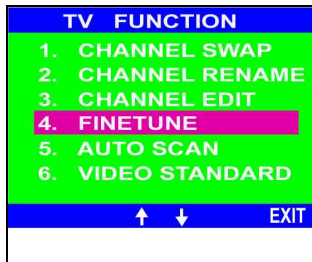
- For example to add CH 60 Use the Remote Control unit, to select CH 60, then enter the TV function sub-menu, press **↑** or **↓** button to enter the **CHANNEL EDIT**. And then press **←** or **→** button to access ADD, and confirm ADD by pressing the “Enter” button on your Remote Controller.

Erasing a channel

- For example to Erase CH 60
Use the Remote control unit, to select CH60, and then enter the TV function sub-menu, press **↑** or **↓** button to enter CH Edit and then press **←** or **→** button to access ERASE, and confirm Erase by passing the “Enter” button on your Remote Controller.
After Adding/Erasing a channel, press the “**Exit**” button to return to the TV function sub-menu. When you have finished Channel Editing; press the “**Exit**” button again to return to the main menu.

5. Fine Tuning

Press **↑** or **↓** and “Enter” button to enter the **FINE TUNE** function. Press **←** or **→** to fine-tune the frequency of the current channel to make it clear, then press “Exit” to return to TV Function sub-menu once finished.



6. Video Standard

Press **↑** or **↓** and “Enter” button to enter the **VIDEO STANDARD** function. The **VIDEO STANDARD** function is to precisely lock up the right channel during the **AUTOSCAN** process.



Please refer the Appendix B to select the standard in your country.



RESOLUTION Setting

The **RESOLUTION** Sub-Menu provides **640 X 480**, **800 X 600**, **1024 X 768** modes.

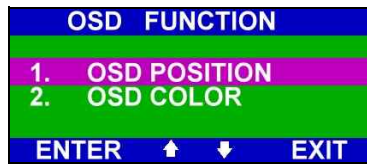
1. To enter “**1024 x 768**”, “**800 x 600**”, “**640x480**” resolution, press **↑** or **↓** button to select one of them, then press “**Enter**” to confirm the setting and **Exit** to main menu



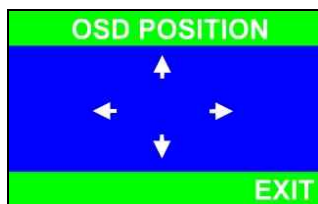
OSD FUNCTION Setting

The **OSD FUNCTION** Sub-Menu provides **OSD POSITION**, **OSD COLOR** settings.

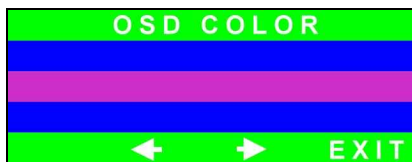
1. In the OSD Function Sub Menu, use **↑** or **↓** to select the item required.



2. Press the “Enter” button to choose the “OSD POSITION”, another “OSD POSITION” sub-menu appears, Use **↑↓** or **←→** button to move the position of menu position on the display. After setting, press the “Exit” button to return to the OSD function Sub-Menu.

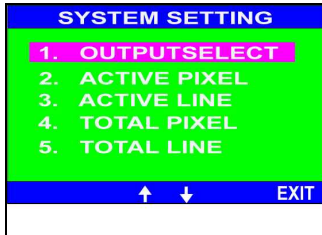




3. Press “Enter” button to choose the “OSD COLOR”, using **←→** or **↵** button to choose your favorite OSD color. After setting, press “Exit” to return to the OSD function sub-Menu.

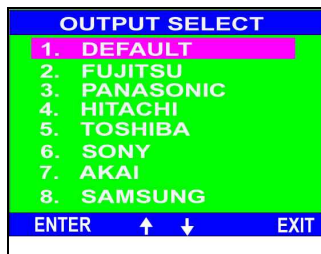




System Setting

The System Setting Sub Menu provides users to set the best display setting for their Plasma displays.



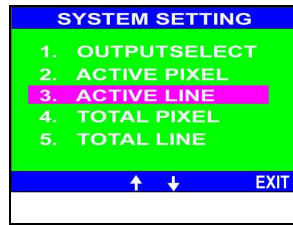
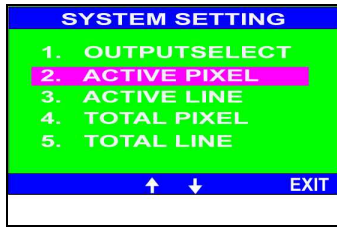
For the best video quality and performance for the Plasma displays, user can select the plasma manufacturer manually by “**OUTPUT SELECT**” function. Press the  and the  and the “**Enter**” button to select the “**OUTPUT SELECT**” function.



Choose the brand name of your plasma manufacturer by pressing the  and the  and the “**Enter**” button. Select the “**Default**” item if you connect to a LCD monitor or you want to restore the default value after you adjusted the display output values on **ACTIVE PIXEL / ACTIVE LINE / TOTAL PIXEL / TOTAL LINE** functions. Return to the **SYSTEM SETTING** Sub Menu; press the “Exit” button.

When you don't find any suitable display settings in the **OUTPUT SELECT** function, choose the following functions to set the display values manually. Please notice that the functions are for the advanced users.

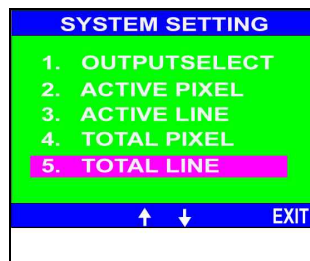
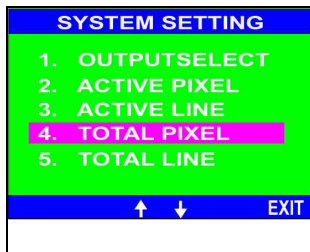
The **ACTIVE PIXEL / ACTIVE LINE** functions provide users to fine-tune the **vertical** and **horizontal** display values of the plasma display.



Press ◀ ▶ button on the remote control to adjust the display screen values.



The **TOTAL PIXEL / TOTAL LINE** functions provide users to fine-tune the **vertical** and **horizontal** display values of the TV BOX.

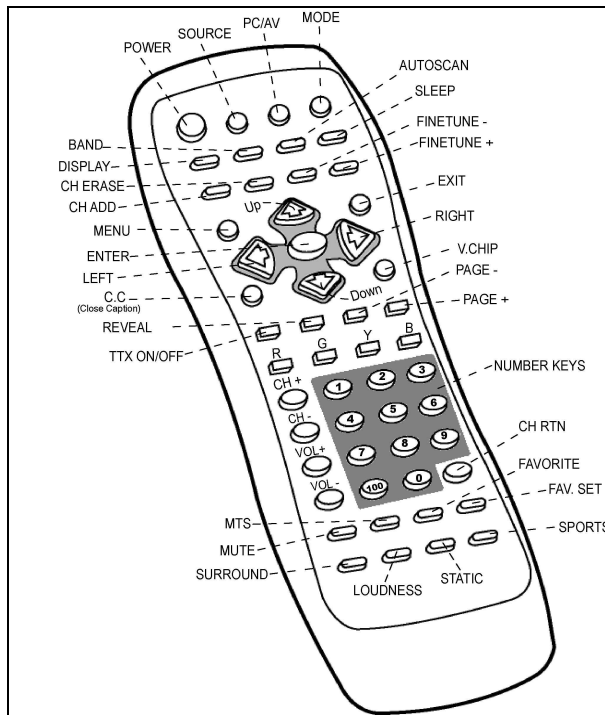


Press ◀ ▶ button on the remote control to adjust the output display values of TV Box.



To restore the default value, please choose the “**DEFALUT**” item in the **OUTPUT SELECT** sub menu.

Remote Control Handset Functions



1. POWER

Powers the unit on and off.

2. SOURCE

Selects the video source between TV/cable, AV, S-video and YCbCr (Component).

3. PC/AV

Switches the AV and PC modes.

4. MODE

Adjusts the video resolution – 1024x768, 800x600, 640x480

5. DISPLAY

Displays current setting information on your screen.

6. BAND

Press the button to switch AIR or Cable system. For NTSC system only.

7. AUTOSCAN

Scan program channels automatically and save scanned channels.

8. SLEEP

Automatically switches off the TV Box as desired; 5, 10, 15, 30, 60, 90 minute options.

9. CH ADD

Adds the current channel, which you lose from the TV cable.

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10. CH ERASE

Press the button to erase the current channel, which you don't like to see.

11. FINE TUNE -

Tunes the TV channel signal down by continuous clicking the button.

12. FINE TUNE +





Tunes the TV channel signal up by continuous clicking the button.

13. MENU

Press the button to pop up the OSD MENU

14. Arrow Buttons

Press the "Arrow" button to choose the items on the main menu or Sub-menu.

Press     button to choose item on the menu or to move the OSD position.

15. EXIT

Exits the current menu selection and return to the previous menu. Press this key repeatedly to close all items.

17. ENTER

Selects the currently highlighted menu item or to confirm the setting.

19. C.C (This function is only supported by USA/NTSC area)

Enables / disables the closed caption function.

21. V.CHIP (This function is only supported by USA/NTSC area)

Locks the channel for security considerations.

22. TTX ON / TTX OFF (for Most Pal system regions)

Activates the Teletext menu. / Press the button to disable the Teletext menu. This key is to enable/disable the Teletext function.

23. REVEAL

Displays the hidden text in Teletext page when suggested and the text will disappear automatically in 6 seconds.

24. PAGE -

Pages down the Teletext index menu.

25. PAGE +

Press the button to page up the Teletext index menu.

26. R/G/Y/B

The Red, Green, Yellow, Blue color buttons corresponds to the option line at the bottom of Teletext index menu. Not functional when there is no Teletext service available.

27. NUMBER KEYS

Selects the channel or key in the values.

28. CH +/-

Click to switch the channel forward and back.

29. VOL +/-

Click to turn the volume louder or lower.

30. CH RTN

Press the button to return the last channel.

31. MUTE

Mutes the volume.

32. MTS

Enables the MTS function in NTSC system. If you are in Pal system area, press this button to execute the “Nicom” stereo function.

33. FAVORITE

Press the button to switch on the “Favorite Channel”

34. FAV.SET

Sets the current channel to “Favorite Channel”.

35. SURROUND

Activates the surround effect.

36. LOUDNESS

Enhances the volume setting

37. STATIC

Enables Interlace Mode

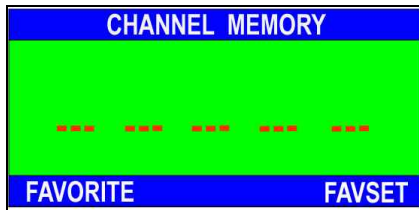
38. SPORTS

Enables De-interlace Mode

Favorite Channel Setting

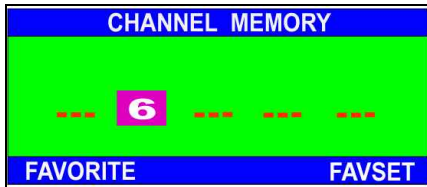
The favorite channel setting function provides 5 channels to set favorite channels. Please refer the following instructions to set up the favorite channel.

Choose the channel you'd like to set, press "FAVSET" button on the remote control unit.

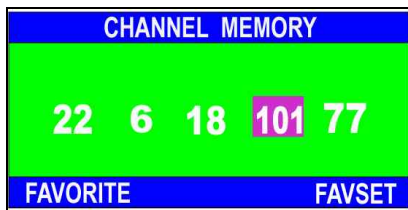


Press the "Favorite" button to select the position of the channel. The favorite channel selection will follow the position sequence.

After selecting the position, press the "FAVSET" button, the channel will be set.



You can replace the channel on your favorite channel list. Please follow the step 2, choose the channel and the position. Then press the "FAVSET" button; the original channel will be replaced by the new ones.



Teletext Operation

Enabling and Disabling Teletext

Press "TTX ON/OFF" on the remote control to display the teletext index menu.



Press the same button to disable teletext function and return to the normal picture. You can press key 26,27,28,29 (Red,Green,Yellow, Blue) on the remote control to correspond the option line at the bottom of index menu



Select a Teletext Page

Enter the desired page number on the index with the digit keys on the remote control. Press "PAGE +" and "PAGE -" on the remote control to search subject pages forward and backward. It shall remain the current page with the top line blinking in green color when you have entered a non-existent or incorrect page number.

Select a Teletext Sub-page

Press "PAGE +" and "PAGE -" on the remote control to activate sub-pages up and down.

Note: The Teletext function is available by option on purchase

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Trouble Shooting

Symptom	Solution
No picture on display	<ul style="list-style-type: none">● Make sure the power cord is connected to an AC outlet, DC plug is connected to DC In port and the power is on.● Check the connection of your source signal.● Unplug and re-plug the DC adaptor to reset the unit.
Video is distorted	<ul style="list-style-type: none">● Check your antenna connections or try adjusting your antenna.● Check all of your connection.
No Sound	<ul style="list-style-type: none">● Check audio connections.● Make sure the speakers are working.● Press Volume +up key on Remote Controller.
The remote control can't control the unit	<ul style="list-style-type: none">● Make sure batteries are installed.● Check remaining battery life.
Missing channel	<ul style="list-style-type: none">● Some Satellite/Cable TV providers use scrambled or encoded signals that may require a device to de-scramble and receive the channels.

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Specifications

Power	12VDC, 1200mA
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
Audio Input	Stereo R+L RCA connectors
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
DVI Output (Optional)	DVI Female connector
Power Consumption	15W nominal
Resolution mode	640 x 480, 800 x 600, 1024 x768
Dimensions (L*W*H)	225 x 160 x 31mm
Weight	2.0 kg

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Broadcasting System

Country	System	VHF	UHF
Afghanistan	PAL	B	
Albania	PAL	B	G
Algeria	PAL	B	G
Alaska	NTSC	M	
Angola	PAL	I	
Antigua & Barbuda	NTSC	M	
Argentina	PAL	N	N
Aruba	NTSC	M	
Australia	PAL	B	H
Austria	PAL	B	G
Azores	PAL	B	
Bahamas	NTSC	M	
Bahrain	PAL	B	
Bangladesh	PAL	B	
Barbados	NTSC	M	
Belgium	PAL	B	H
Benin	SECAM	K	
Bermuda	NTSC	M	
Bolivia	NTSC	N	
Brazil	PAL	M	M
Brunei Darussalam	PAL	B	
Bulgaria	SECAM	D	K
Burma	NTSC	M	
Burkina Faso	SECAM	K	
Burundi	SECAM	K	
Cambodia	NTSC	M	
Cameroon	PAL	B	
Canada	NTSC	M	M
Canary Islands	PAL	B	G
Chile	NTSC	M	
China	PAL	D	D
Colombia	NTSC	M	M
Congo	SECAM	D	
Costa Rica	NTSC	M	M
Cuba	NTSC	M	M
Cyprus	PAL	B	G
Czechoslovakia	SECAM	D	
Denmark	PAL	B	
Djibouti	SECAM	K	
Dominican Republic	NTSC	M	G
Ecuador	NTSC	M	
Egypt	SECAM	B	M
El Salvador	NTSC	M	
Equador	NTSC	M	
Ethiopia	PAL	B	M
Finland	PAL	B	M
France	SECAM	L	G
Gambia	SECAM	K	G

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Germany	PAL	B	L
Ghana	PAL	B	
Greece	SECAM	B	G
Greenland	NTSC	M	
Guam	NTSC	M	G
Guatemala	NTSC	M	
Guyana	SECAM	K1	M
Guinea	SECAM	K	M
Haiti	NTSC	M	K1
Hawaii	NTSC	M	
Honduras	NTSC	M	
Hong Kong	PAL		
Hungary	SECAM	D	
Iceland	PAL	B	I
India	PAL	B	K
Indonesia	PAL	B	G
Iran	SECAM	B	
Iraq	SECAM	B	G
Ireland	PAL	A/I	G
Israel	PAL	B	
Italy	PAL	B	I
Japan	NTSC	M	G
Jamaica	NTSC	M	G
Johnston Island	NTSC	M	M
Jordan	PAL	B	
Korea (Dem, People's Rep. of)	PAL	D	
Korea (Rep. of)	NTSC	M	G
Kuwait	PAL	B	M
Laos	PAL	M	G
Lebanon	SECAM	B	
Lesotho	PAL	I	
Liberia	PAL	B	
Luxembourg	PAL/SECAM	B	
Macao	PAL	B	G/L
Madagascar	SECAM	K1	
Malta	PAL	B	K1
Malaysia	PAL	B	H
Mali	SECAM	K1	G
Mariana Islands	NTSC	M	
Mauritius	SECAM	B	
Mauritania	SECAM	B	
Mexico	NTSC	M	
Micronesia	NTSC	M	
Midway Islands	NTSC	M	
Maldives	PAL	B	
Monaco	PAL/SECAM	/L	
Mongolia	SECAM	D	G/L
Morocco	SECAM	B	
Mozambique	PAL	B	
Netherlands	PAL	B	
New Zealand	PAL	B	G

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Nepal	PAL	B	
Nicaragua	NTSC	M	
Niger	SECAM	K	
Nigeria	PAL	B	
Norway	PAL	B	G
Oman	PAL	B	G
Paraguay	PAL	N	G
Pakistan	PAL	B	
Panama	NTSC	M	
Philippines	NTSC	M	
Polynesia	SECAM	K1	M
Poland	SECAM	D	
Portugal	PAL	B	K
Puerto Rico	NTSC	M	G
Romania	PAL	D	M
Saint Lucia	NTSC	M	K
Samoa	NTSC	M	
Saudi Arabia	SECAM	B	
San Marino	PAL	B	G
Senegal	SECAM	K	G
Seychelles	PAL	B	
Sierra Leone	PAL	B	
Singapore	PAL	B	G
South Africa	PAL	I	G
Spain	PAL	B	I
Sri Lanka	PAL	B	G
Sudan	PAL	B	
Suriname	NTSC	M	
Swaziland	PAL	B	
Sweden	PAL	B	G
Switzerland	PAL	B	G
Syria	SECAM	B	G
Taiwan	NTSC	M	
Tanzania	PAL	B	M
Thailand	PAL	B	I
Togo	SECAM	K	
Trinidad & Tobago	NTSC	M	
Tunisia	SECAM	B	
Turkey	PAL	B	
Uganda	PAL	B	
United Arab Emirates	PAL	B	G
United Kingdom	PAL		G
U.S.A	NTSC	M	I
U.S.S.R	SECAM	D	M
Venezuela	NTSC	M	K
Vietnam	SECAM	N	
Yemen	PAL	B	
Yugoslavia	PAL	B	
Zaire	SECAM	K1	G

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