AVerMedia TVBox™ 5

User Manual

FC CE

FCC NOTICE

This device has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a commercial, industrial or business environment. This equipment can generate, use and radiate radio frequency energy and, if not installed and used in accordance with the instruction, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures :

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

CAUTION ON MODIFICATIONS

To comply with the limits for the Class B digital device, pursuant to Part 15 of the FCC Rules, this device must be installed in computer equipment certified to comply with the Class B limits. All cables used to connect the computer and peripherals must be shielded and grounded. Operation with non-certified computers or non-shielded cables may result in interference to radio or television reception.

Any changes or modifications not expressly approved by the grantee of this device could void the user's authority to operate the equipment.

CE NOTICE

This is a Class B product.

DISCLAIMER

No warranty or representation, either expressed or implied, is made with respect to the contents of this documentation, its quality, performance, merchantability, or fitness for a particular purpose. Information presented in this documentation has been carefully checked for reliability; however, no responsibility is assumed for inaccuracies. The information contained in this documentation is subject to change without notice.

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Contents

Introduction

Thank you for purchasing the AVerMedia TVBox™ 5!

With the AVerMedia TVBox 5, you can turn your VGA monitor or LCD projector into a TV/multimedia center with or without turning on your PC. It is true plug-n-play and there is no software driver required. You can easily switch between TV/Video source and PC display at anytime.

What's in the Package

Your AVerMedia TVBox 5 package contains the following items:
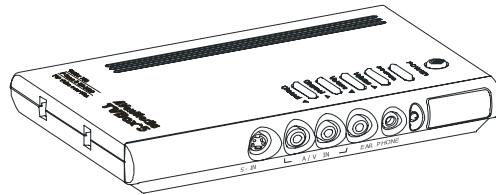
AVerMedia TVBox 5
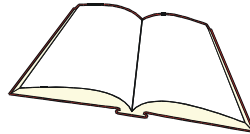
User's Manual

Vertical Stand
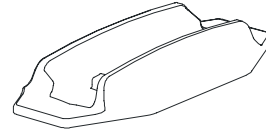
Power Adapter

Audio Cable

Remote Control
(Batteries included)

VGA Cable

1

The AVerMedia TVBox™ 5 Unit

Touch Button Control Panel

The Touch Button Panel found on the top side of the AVerMedia TVBox 5 provides quick access to commonly used functions.

POWER
Turn the unit on /off

SOURCE
Press this button to toggle between TV/Video and PC display

VOLUME ▲
Press to increase the volume level

VOLUME ▼
Press to decrease the volume level

CHANNEL ▲
Press to go up to the next active TV channel

CHANNEL ▼
Press to go down to the next active TV channel
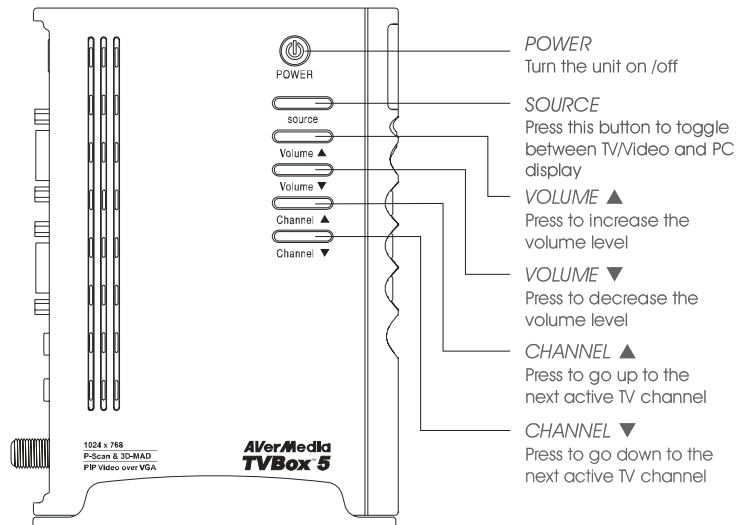
Infrared Sensor

When using the remote control, aim it at the Infrared Sensor which is located at the front panel of the AVerMedia TVBox 5.

INFRARED REMOTE SENSOR

S - IN   └ A / V IN ┘   EARPHONE

2
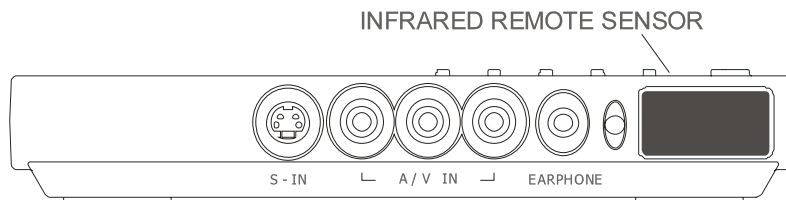
Connection Ports

The port connectors allow connection of your TV antenna, PC, VGA monitor or LCD projector, speakers, video, or s-video source etc.

AUDIO INPUT from PC's SOUND CARD

VGA OUTPUT to MONITOR   TV ANTENNA (75Ω)

DC   VGA OUT   VGA IN   AUDIO IN   SPEAKER OUT   ANT IN

VGA INPUT from PC

POWER ADAPTER   SPEAKER CONNECTION
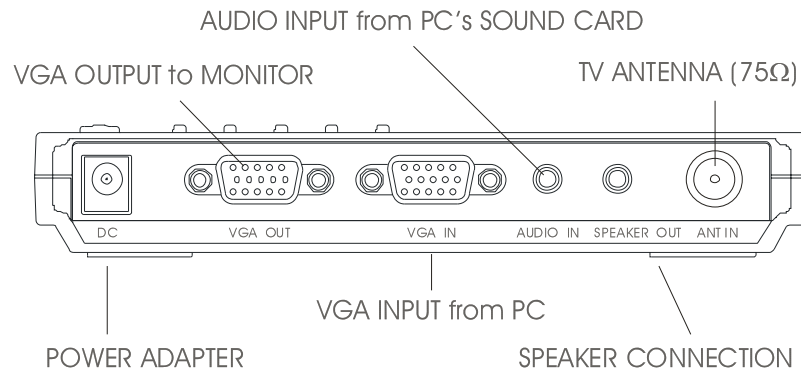
AVerMedia TVBox 5 Back Panel

Left & Right AUDIO INPUT

VIDEO INPUT

S - IN   └ A / V IN ┘   EARPHONE

S-VIDEO INPUT   EARPHONE JACK
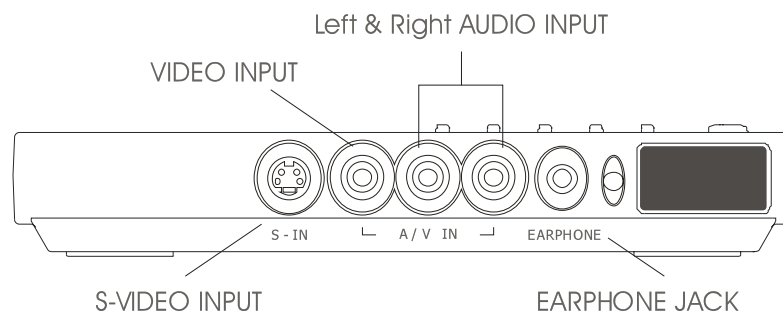
AVerMedia TVBox 5 Front Panel

The Installation and Setup section provides more information on cable connections.

3

AVerMedia TVBox™ 5

Installation and Setup

The figure below shows the proper cable connections for installing AVerMedia TVBox 5 and connecting it to your audio/video equipment.

4

5
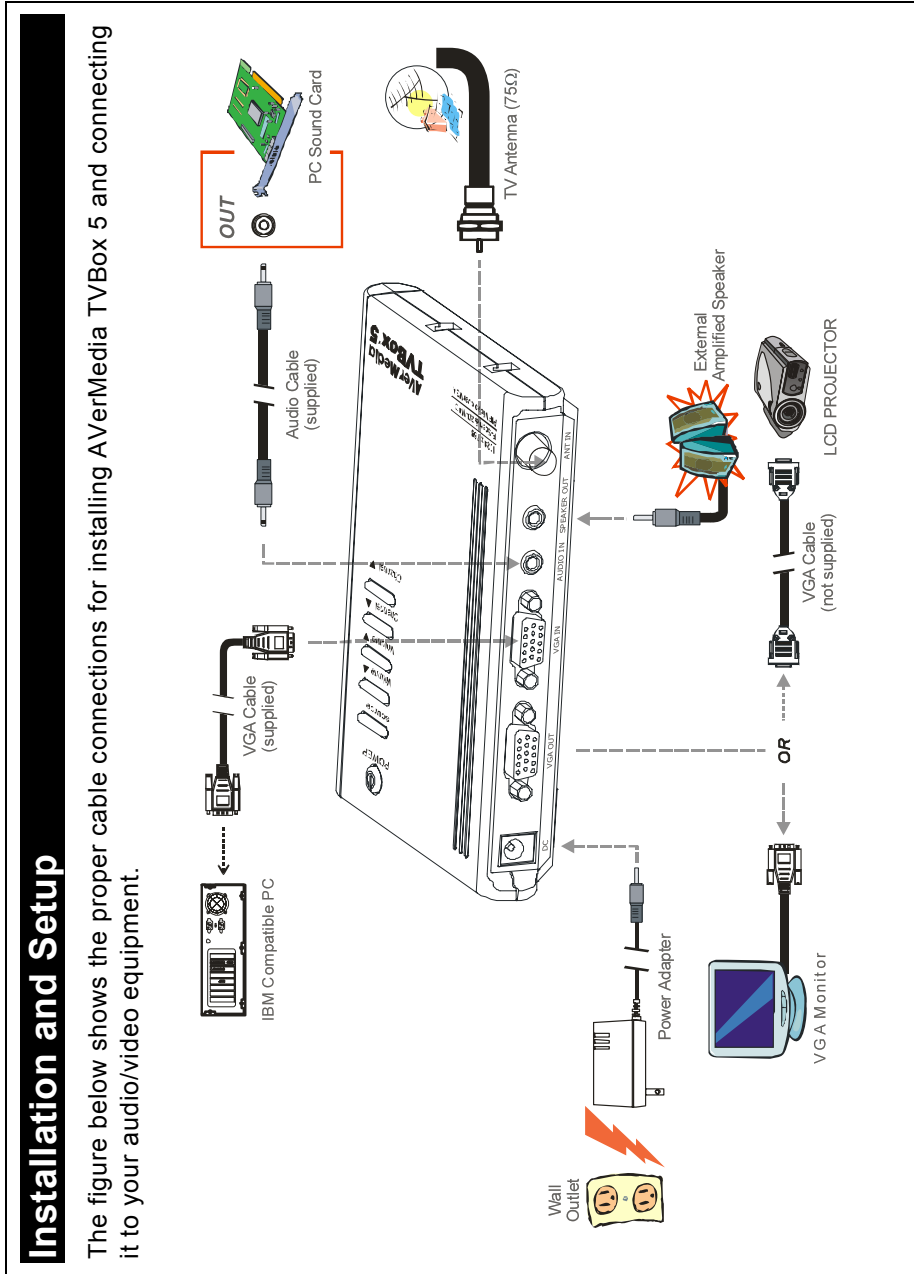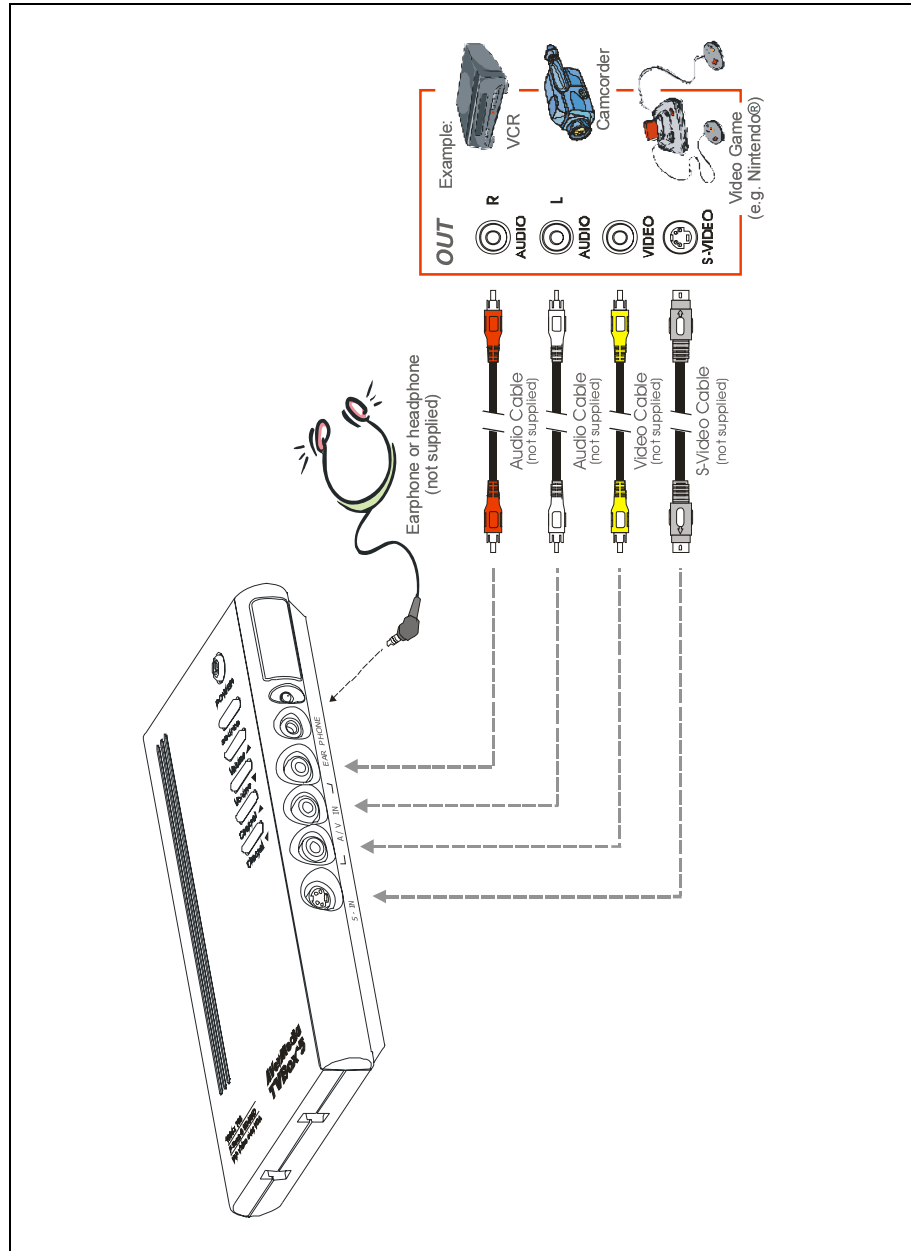
Connecting the VGA monitor or LCD Projector

Connect the VGA monitor or LCD Projector cable to the AVerMedia TVBox 5 **VGA OUT** port.

VGA Monitor

DC VGA OUT VGA IN AUDIO IN SPEAKER OUT ANT IN

OR

VGA Cable
(not supplied)

LCD PROJECTOR
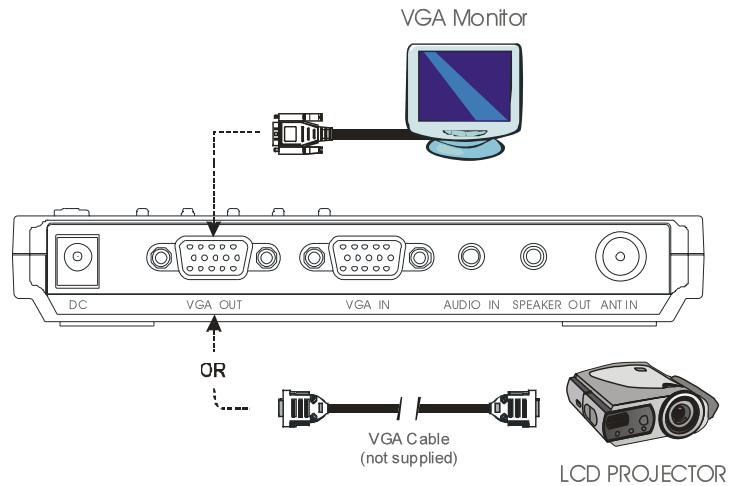
Connecting the Computer

You can use AVerMedia TVBox 5 with or without turning on your PC. To switch to PC anytime, connect the VGA cable to the AVerMedia TVBox 5 **VGA IN** port and to your PC VGA card (the terminal where your monitor connects to the PC).

DC VGA OUT VGA IN AUDIO IN SPEAKER OUT ANT IN

VGA IN Cable
(supplied)

IBM Compatible PC

6
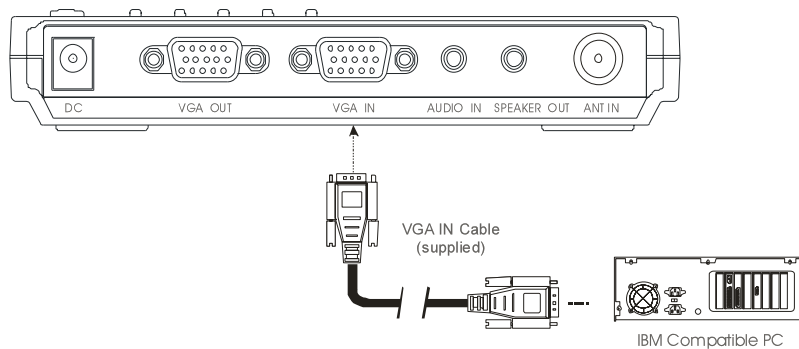
Connecting the Antenna

Attach the antenna or cable TV to the
ANT IN port of the AVerMedia TVBox 5 .

TV Antenna (75Ω)

DC   VGA OUT   VGA IN   AUDIO IN SPEAKER OUT   ANT IN
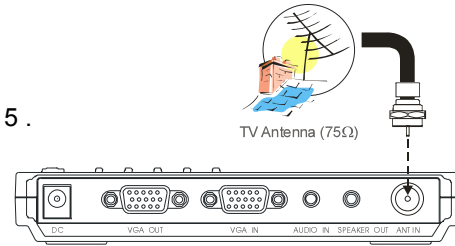
Connecting an Audio Cable

OUT

PC Sound Card   Audio Cable
(supplied)
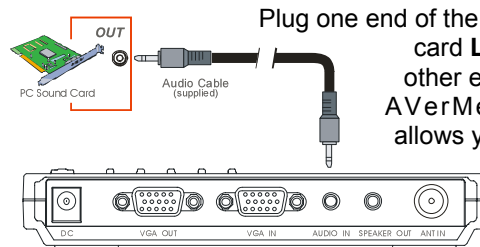
Plug one end of the supplied audio cable to your sound
card **LINE OUT (SPEAKER)** port and the
other end to the **AUDIO IN** port of the
AVerMedia TVBox 5 . This connection
allows you to have audio at all times and to
adjust the volume from the
AVerMedia TVBox 5 .

DC   VGA OUT   VGA IN   AUDIO IN SPEAKER OUT ANT IN

Connecting an External Amplified Speaker

Connect your external
amplified speaker to the
AVerMedia TVBox 5
SPEAKER OUT port.

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DC   VGA OUT   VGA IN   AUDIO IN SPEAKER OUT   ANT IN

External Amplified Speaker
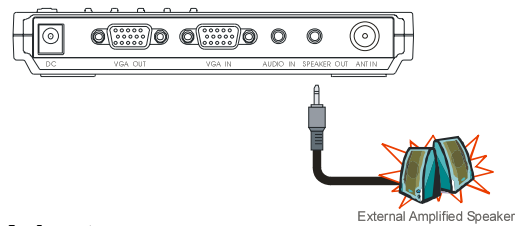
Connecting the Power Adapter

DC   VGA OUT   VGA IN   AUDIO IN SPEAKER OUT   ANT IN

Wall
Outlet
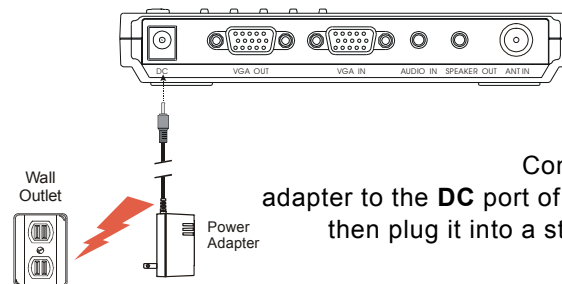
Power
Adapter

Connect the supplied power
adapter to the **DC** port of the AVerMedia TVBox 5
then plug it into a standard AC power outlet.

7

Connecting the Audio/ Video Equipment

RCA (Composite) Video connection: Connect the video cable (not included) to the **VIDEO OUT** of the video device and to the AVerMedia TVBox 5 **A/V IN** yellow port.

S-Video connection: Connect the s-video cable (not included) to the **S-VIDEO OUT** of the video device and to the AVerMedia TVBox 5 **S-IN** port. If your video device supports s-video, use this type of connection as s-video provides better picture quality than composite video.

Left and Right Audio connection : Connect the audio cable to the left & right **AUDIO OUT** of the video device and to the AVerMedia TVBox 5 **A/V IN** white and red ports.
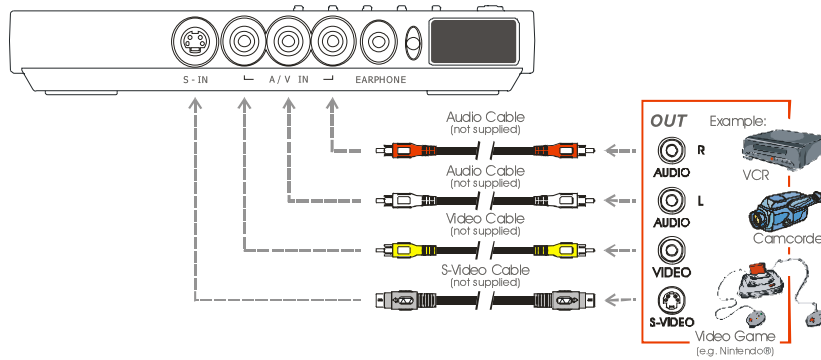
Connecting an Earphone or Headphone

You can also use earphones or headphones to listen to audio. Plug the earphones or headphones to the AVerMedia TVBox 5 **EARPHONE** port.

8
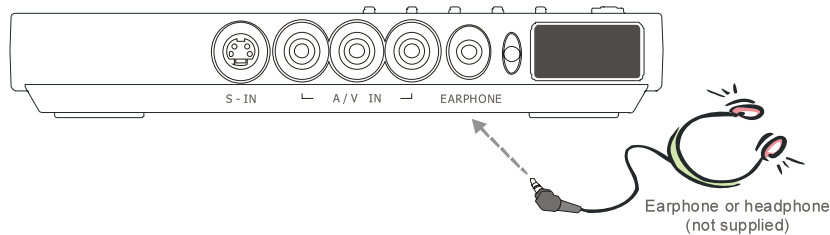
Using the AVerMedia TVBox 5

Different countries have different TV systems, for example, PAL-BG, PAL-DK, NTSC-J, NTSC-M…etc. AVerMedia TVBox 5 functions only with the TV system of the country it is manufactured for and originally distributed in.

Each column in the table below corresponds to a different type of TV system. Only one of these TV systems (only one column) will appear as your **SET AREA**. Make sure that you select the correct country signal from the menu. To change the area setting, refer to **SET AREA** (page 13).

NTSC-J	PAL-N PAL-M NTSC-M	SECAM-DK	SECAM-L	PAL-I	PAL-BG	PAL-DK
JAPAN		BULGARIA	FRANCE	UK	AUSTRALIA	CHINA
		RUSSIA		HK	AUSTRIA	CZECH
	ARGENTINA	UKRAINE			BANGLADESH	HUNGARY
	BRAZIL				BELGIUM	POLAND-1
	KOREA				DENMARK	POLAND-2
	TAIWAN				EGYPT	POLAND-3
	USA-STD				GERMANY	SLOVAKIA
	USA-HRC				GREECE	
	USA-IRC				INDIA	
					INDONESIA	
					IRAN	
					ITALY	
					NETHERLANDS	
					NETHERLANDS_1	
					NETHERLANDS_2	
					RUMANIA	
					PORTUGAL	
					SINGAPORE	
					SLOVENIA	
					SPAIN	
					SWEDEN	
					SWITZERLAND	
					TURKEY	
					UAE	

To ensure that you can select and watch all active channels, refer to section **CH SCAN** (page 11) on how to automatically scan and memorize all active TV channels in your area.
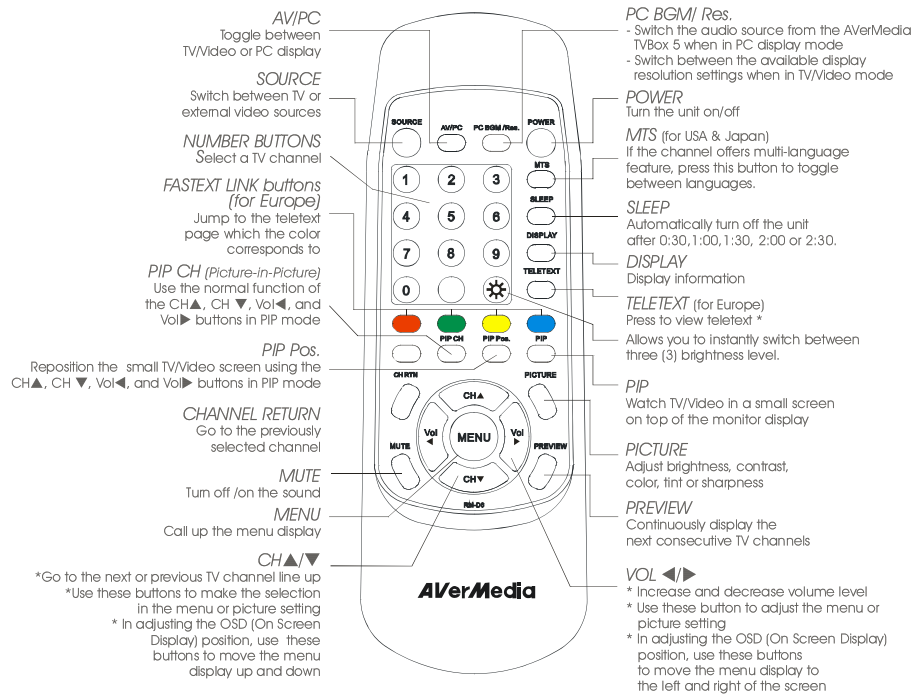
Accessing TV Controls

To access various TV controls, open up the menu displays or press on the remote control buttons.

The Remote Control
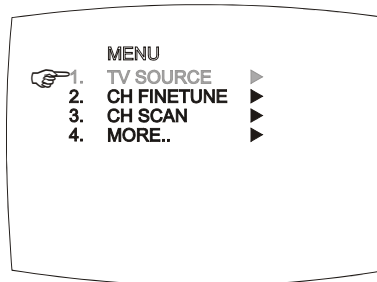
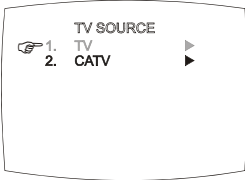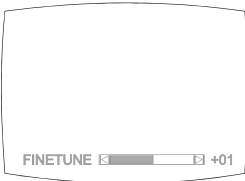The diagram below shows the remote control unit layout.

9

AV/PC
Toggle between
TV/Video or PC display

SOURCE
Switch between TV or
external video sources

NUMBER BUTTONS
Select a TV channel

*FASTEXT LINK buttons
(for Europe)*
Jump to the teletext
page which the color
corresponds to

PIP CH (Picture-in-Picture)
Use the normal function of
the CH▲, CH ▼, Vol◄, and
Vol► buttons in PIP mode

PIP Pos.
Reposition the small TV/Video screen using the
CH▲, CH ▼, Vol◄, and Vol► buttons in PIP mode

CHANNEL RETURN
Go to the previously
selected channel

MUTE
Turn off /on the sound

MENU
Call up the menu display

CH▲/▼
*Go to the next or previous TV channel line up
*Use these buttons to make the selection
in the menu or picture setting
* In adjusting the OSD (On Screen
Display) position, use these
buttons to move the menu
display up and down

PC BGM/ Res.
- Switch the audio source from the AVerMedia
  TVBox 5 when in PC display mode
- Switch between the available display
  resolution settings when in TV/Video mode

POWER
Turn the unit on/off

MTS (for USA & Japan)
If the channel offers multi-language
feature, press this button to toggle
between languages.

SLEEP
Automatically turn off the unit
after 0:30,1:00,1:30, 2:00 or 2:30.

DISPLAY
Display information

TELETEXT (for Europe)
Press to view teletext *

Allows you to instantly switch between
three (3) brightness level.

PIP
Watch TV/Video in a small screen
on top of the monitor display

PICTURE
Adjust brightness, contrast,
color, tint or sharpness

PREVIEW
Continuously display the
next consecutive TV channels

VOL ◄/►
* Increase and decrease volume level
* Use these button to adjust the menu or
  picture setting
* In adjusting the OSD (On Screen Display)
  position, use these buttons
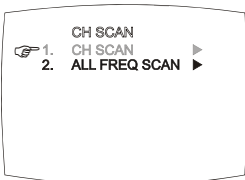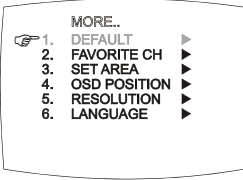 to move the menu display to
  the left and right of the screen

Note: Teletext buttons only present in European model.
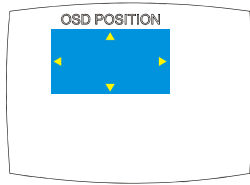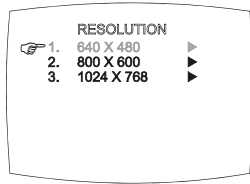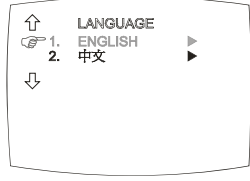
Calling Up a Menu Display

Press the **MENU** button on the remote control to call up and exit the main menu or sub-menu display. Then, you can use the **CH▲** or **CH▼** buttons to select the items in the menu list; and the **Vol◄** or **Vol►** buttons to adjust or to make a selection. The table on the next page lists the different functions you will find in the menu.

MENU
☞1. TV SOURCE   ►
　2. CH FINETUNE ►
　3. CH SCAN   ►
　4. MORE..   ►

10

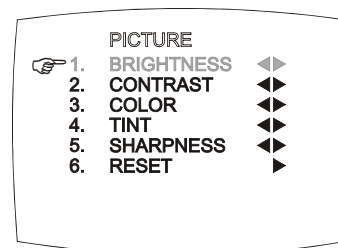| Main Menu	On Screen Display	Usage
TV SOURCE	TV SOURCE ☞ 1. TV ▶ 2. CATV ▶	Use the **CH▲** or **CH▼** buttons to select between antenna TV or cable TV source, then press **Vol►** button to make the selection.
CH FINETUNE	FINETUNE ◁▣█████▷ ▷ +01	If the TV reception is not clear, choose **CH FINETUNE** then press **Vol◄** and **Vol►** buttons until the TV picture becomes clear.
CH SCAN	CH SCAN ☞ 1. CH SCAN ▶ 2. ALL FREQ SCAN ▶	Use the **CH▲** or **CH▼** buttons to select either **CH SCAN** or **All FREQ SCAN**, then press **Vol◄** button to make the selection. If you want to interrupt or cancel the scanning process, press the **MENU** button. Only those channels scanned prior to interruption or cancellation will be memorized. These two types of channel-preset functions recall all active channels in your area. Use the **CH SCAN** function first. If there are channels missing after you perform **CH SCAN**, use the **ALL FREQ SCAN** function and repeat the searching process. NOTE: **ALL FREQ SCAN** is a very time consuming process. If the default frequency table already includes all active TV channels in your area, then you do not need to use the ALL FREQ SCAN.

11

AVerMedia TVBox™ 5

Main Menu	On Screen Display	Usage
MORE..	MORE.. 1. DEFAULT ► 2. FAVORITE CH ► 3. SET AREA ► 4. OSD POSITION ► 5. RESOLUTION ► 6. LANGUAGE ►	Press **Vol►** button to call up **MORE..** menu list.
DEFAULT	DEFAULT 1. NO ► 2. YES ►	Use the **CH▲** or **CH▼** buttons to select **YES** to clear all the preset channels and to restore the original factory default picture setting or **NO** to exit. Then press **Vol►**.
FAVORITE CH	FAVORITE CH 1. USER CH --- (37) 2. CATV CH --- (37) 3. ADD 4. DEL	This function enables you to add, remove, reprogram or reassign the TV channels with channel numbers that are easier to remember. In the selected **USER CH**, enter the new channel number you want to assign or the channel number you want to remove/add to the channel line up. Then, in the **CATV CH** or **TV CH**, enter the channel number you want to remap or the channel number you want to remove/add. Use the **CH▲** or **CH▼** buttons to select **ADD** to include or **DEL** to remove the channel number in the channel line up and then press **Vol►**. Note: To browse through channels while setting the **USER CH** and **CATV** number, press the **CH▲** or **CH▼** buttons.

12

Main Menu	On Screen Display	Usage
SET AREA	SET AREA 1. ARGENTINA ▶ 2. BRAZIL ▶ 3. KOREA ▶ 4. TAIWAN ▶ 5. USA-STD ▶	Press the **MENU** button, select **MORE,** select **SET AREA** in the **MORE**, list items, use the **CH▲** or **CH▼** buttons to choose the appropriate country signal, then press **Vol►** button to make the selection. If your country is not listed, choose another country with the same TV system as yours.
OSD POSITION	OSD POSITION	Use the **CH▲**, **CH▼**, **Vol◄**, and **Vol►** buttons to move the frame where you want to set the position of the MENU, then press **MENU**.
RESOLUTION	RESOLUTION 1. 640 X 480 ▶ 2. 800 X 600 ▶ 3. 1024 X 768 ▶	Use the **CH▲** or **CH▼** buttons to choose either 640 x 480, 800 x 600 or 1024 x 768 display resolution then press **Vol►**.
LANGUAGE	LANGUAGE 1. ENGLISH ▶ 2. 中文 ▶	Use the **CH▲** or **CH▼** buttons to select a different language then press **Vol►**.

Customizing the Picture Setting

If you want to adjust the picture quality, press the **PICTURE** button on the remote. Then, you can use the **CH▲** or **CH▼** buttons to select the items in the **PICTURE** menu; and the **Vol◄** or **Vol ►** buttons to make the adjustment.

To restore the picture default setting, select **RESET** and then press **Vol ►**.

```
          PICTURE
1.  BRIGHTNESS    ◄►
2.  CONTRAST      ◄►
3.  COLOR         ◄►
4.  TINT          ◄►
5.  SHARPNESS     ◄►
6.  RESET          ▶
```

13

Supported Display Setting in PIP Mode

The reference table below lists the monitor display resolution and refresh rate settings that TVBox 5 supports when viewing in PIP mode:

Resolution	*Refresh Rate (Hz)*
640 x 480	60, 72, 75, 85
800 x 600	60, 72, 75, 85
1024 x 768	60, 70, 75, 85

LIMITED WARRANTY

1. Limited Warranty:

For a period of time beginning on the date of purchase of the applicable product and extending as set forth in Section 6 of this Limited Warranty (the "**Warranty Period**"), AVerMedia Technologies, Inc. ("**AVerMedia**") warrants that the applicable product ("**Product**") substantially conforms to AVerMedia's documentation for the product and that its manufacture and components are free of defects in material and workmanship under normal use. "You" as used in this agreement means you individually or the business entity on whose behalf you use or install the product, as applicable. This limited warranty extends only to You as the original purchaser. Except for the foregoing, the Product is provided "AS IS." In no event does AVerMedia warrant that You will be able to operate the Product without problems or interruptions, or that the Product is suitable for your purposes. Your exclusive remedy and the entire liability of AVerMedia under this paragraph shall be, at AVerMedia's option, the repair or replacement of the Product with the same or a comparable product. This warranty does not apply to (a) any Product on which the serial number has been defaced, modified, or removed, or (b) cartons, cases, batteries, cabinets, tapes, or accessories used with this product. This warranty does not apply to any Product that has suffered damage, deterioration or malfunction due to (a) accident, abuse, misuse, neglect, fire, water, lightning, or other acts of nature, commercial or industrial use, unauthorized product modification or failure to follow instructions included with the Product, (b) misapplication of service by someone other than the manufacturer's representative, (c) any shipment damages (such claims must be made with the carrier), or (d) any other causes that

14

do not relate to a Product defect. The Warranty Period of any repaired or replaced Product shall be the longer of (a) the original Warranty Period or (b) thirty (30) days from the date of delivery of the repaired or replaced Product.

2. Limitations of Warranty:

AVerMedia makes no warranties to any third party. You are responsible for all claims, damages, settlements, expenses, and attorneys' fees with respect to claims made against You as a result of Your use or misuse of the Product. This warranty applies only if the Product is installed, operated, maintained, and used in accordance with AVerMedia specifications. Specifically, the warranties do not extend to any failure caused by (i) accident, unusual physical, electrical, or electromagnetic stress, neglect or misuse, (ii) fluctuations in electrical power beyond AVerMedia specifications, (iii) use of the Product with any accessories or options not furnished by AVerMedia or its authorized agents, or (iv) installation, alteration, or repair of the Product by anyone other than AVerMedia or its authorized agents.

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15

SUCH DAMAGES. AVERMEDIA'S TOTAL, AGGREGATE
LIABILITY FOR DAMAGES OF ANY NATURE, REGARDLESS OF
FORM OF ACTION, SHALL IN NO EVENT EXCEED THE
AMOUNT PAID BY YOU TO AVERMEDIA FOR THE SPECIFIC
PRODUCT UPON WHICH LIABILITY IS BASED.

5. Governing Law and Your Rights

This warranty gives You specific legal rights; you may also have
other rights granted under state law. These rights vary from state to
state.

Section 6

Warranty Period of AVerMedia Product Purchased:
AVerVision110: 2 Year Limited Parts and Labor.
1 Year of Remote Control, Microscope Lens Adapters
AVerVision300: 3 Year Limited Parts and Labor.
1 Year of LED Document Positioning Light Module, Remote
Control,
and Microscope Lens Adapters.
All other AVerMedia Products: 1 Year Limited Parts and Labor

CONTACT INFORMATION

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16

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