

TIVAX
Innovation for all

DIGITAL TV CONVERTER

USER MANUAL



STB-T9

Tivax Digital TV Converter User Manual- Important Safety Instructions

The Tivax Guarantee

Tivax is dedicated to bring the world of digital television to you, no matter if your TV set is an older model. For questions or technical issues, please visit: www.tivax.com

WARNING

- TO PREVENT FIRE OR SHOCK HAZARD, DO NOT USE THIS PLUG WITH AN EXTENSION CORD, RECEPTACLE OR OTHER OUTLET UNLESS THE BLADES CAN BE FULLY INSERTED TO PRESENT BLADE EXPOSURE.
- TO PREVENT FIRE OR SHOCK HAZARD. DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE
- TO PREVENT ELECTRICAL SHOCK, MATCH WIDE BLADE PLUG TO WIDE SLOT FULLY INSERT.

CAUTION

Risk of Electric Shock Do not open

Caution: To reduce the risk of electric shock, do not remove cover (or back). No user- serviceable parts inside. Refer to qualified service personnel.



This symbol is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

Dolby Digital Certification



Manufactured under license from Dolby Laboratories. "Dolby", and the double-D symbol are trademarks of the Dolby Laboratories.

Caution: Do not alter or change the construction of this device without written authorization from Tivax, Inc. Furthermore, any unauthorized alteration of this device without written approval by Tivax, inc. will void any warranty and the owner's right to operate this device.

Note: This equipment 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 residential installation. This device generates, uses and also radiate radio frequency energy and, if not installed in a proper manner and used in accordance with the instructions provided in this manual, may cause harmful interference with other equipment.

In addition, Tivax does not warrant that interference will not occur when properly installed. If the device does cause interference with other equipment please defer to this manual for suggestions. Options include moving the device or re-orienting it away from equipment.

Important Safety Information

Always use care when using your Tivax. To reduce the risk of electrical shock, fire, or other possible injuries, always keep safety in mind when operating your Tivax

- ü Read all safety instructions and warnings before operating your Tivax receiver
- ü Keep this manual for future reference
- ü Do not use your Tivax near water or anyplace where it may make contact with water, such as swimming pools, sinks, etc.
- ü When cleaning your Tivax, always unplug for safety. Do not use liquid cleaners as they may affect the electronics. Instead, use a dry cloth.
- ü Your Tivax generates a small amount of heat, so do not block the vents or inhibit normal air circulation. To protect your Tivax from overheating, place it on a flat smooth surface, such as a shelf. Avoid placing it on rugs or other surfaces where air circulation may be blocked.
- ü Your Tivax comes with a standard polarized plug (one blade is wider than the other, with a third plug for grounding). Use outlets designed for this type of plug for your safety. If your outlet is not compatible with this plug please consult an electrician.
- ü Do not pinch, cut or crimp the electrical cord.
- ü Use only UL Certified antennas with your Tivax
- ü Unplug your Tivax during storms or when not used for long periods of time to protect from lightning or power surges
- ü Operate your antenna according to the safety standards recommended by the antenna manufacturer. When installing a rooftop or outdoor antenna, be sure to ground it to protect your Tivax and other indoor electronic equipment from power surges and lightning.

WARNING: The mains plug is used as disconnect device, the disconnect device shall remain readily operable.

WARNING: The battery (battery or batteries or battery pack) shall not be exposed to excessive heat such as sunshine, fire or the like.

Double Insulation. This is CLASS II apparatus.

Welcome to the world of Digital TV

Welcome to the world of Digital TV

All set top boxes (STB) have been tested in the factory for proper operation. In case you experience any problems, please follow these simple steps to troubleshoot your problems.

Please make sure your TV and STB are plugged in and powered up, and that the STB is properly connected to your TV by either a RF cable or a A/V cable set (red white yellow connectors on each end) following the guideline below. Don't forget to properly insert batteries into the remote control unit.

Connection option RF:

The STB can be operated in RF mode to connect to your TV. In this case the RF-OUT connector of the STB connects to your Antenna Input on your TV. Your TV must be tuned to either channel 3 or 4 and the STB needs to be set to the corresponding channel selected on the back of the STB by utilizing the small slide switch.

Connection option A/V:

If your TV is equipped with an A/V input, sometimes referred to as AV1 or AVin, then you may want to choose the A/V connection for a better quality picture. A RF connection as described above has some inherent limitation and a somewhat lower quality than A/V.

Please make your connection before turning on your devices and plug in the yellow terminated cable to the AV-in on your TV and the AV-out on the STB. Similarly, connect the red and white terminated cable to the corresponding Audio-in on your TV and Audio-out on the STB.

Once a connection utilizing option RF or option A/V is made turn on your TV first and then your STB. The STB is turned on by pressing the power button on the front, or using the remote, power up the STB. You should see a logo come up on your TV as the STB turns on.

Since channel programming is different in various regions, you must set up your set top box with your channels by using the auto scan feature.

Make sure a suitable antenna is connected to the antenna input, labeled as RF-In on the STB, and after turning on your TV and STB, press the Menu button on your remote. Use the cursor keys around the OK button to move the highlighted field to Channel-Scan and press OK. You may need to reorient your antenna to achieve best results. If you have an external antenna, it may have already been oriented such that it points to the transmitter stations.

To help in orienting your antenna, a signal strength indicator can be turned on in the STB. Use the menu button and select signal strength or signal quality item to display a signal quality bar on the screen.

Although digital TV will give a very clear picture when a signal is received in sufficient strength, a weak signal will result in dropouts or no picture at all. Analog stations would just be received with noise in the sound and snow in the picture, Digital transmissions will dropout or have large blocks of images missing if the RF signal is of insufficient strength or quality. Reorienting your antenna or getting a better quality antenna may solve this problem. Some experimenting may be required to obtain the best results.

Thank you for choosing a Tivax Set Top Box and enjoy the new world of Digital Television.

Bienvenido al mundo de Digital TV

Todas las cajas encima del televisor (STB) se han probado en la fábrica para la operación apropiada. En caso de que usted encuentre cualquier problema, por favor siga estos pasos simples para localizar las averías de sus problemas.

Por favor asegúrese que su TV y STB estén conectados y encendidos, y que el STB es conectado correctamente con su TV por un cable RF o cable A/V (conectores rojos amarillos blancos en cada extremo) que sigue la pauta de abajo. No se olvide de insertar correctamente las baterías en el control remoto.

Opción de conexión RF:

El STB se puede funcionar en modo del RF para conectar con su TV. En este caso el conector de RF-OUT del STB conecta con su antena entrada en su TV. Su TV se debe ser sintonizado a cualquier canal 3 o 4 y el STB necesita ser ajustado al canal correspondiente seleccionado en la parte posterior del STB utilizando el interruptor pequeño deslizante.

Opción de conexión A/V:

Si le TV equipan de una entrada de A/V, designada a veces AV1 o AVin, después usted puede desear elegir la conexión de A/V para una imagen de mejor calidad. Una conexión del RF como se describe anteriormente tiene una cierta limitación inherente y un poco menor de calidad que A/V.

Por favor haga su conexión antes de encender en sus dispositivos y conecte el cable terminado amarillo al AV-in de su TV y AV-out en el STB. Parecidamente, conecte el cable terminado rojo y blanco con el Audio-in en su TV y Audio-out en el STB correspondientemente.

Una vez que una conexión utiliza la opción de RF o la opción A/V se encienda su TV primero y usted es su STB. El STB es encendido presionando el botón de la energía en el frente, o con el control remoto, encienda el STB. Usted debe ver un logo que aparece en su TV mientras que el STB se enciende.

Puesto que la programación del canal es diferente en varias regiones, usted debe ajustar su caja encima del televisor con sus canales usando la característica de auto exploración.

Asegúrese de que una antena conveniente esté conectada con la entrada de la antena, etiquetada como RF-in en el STB, y después de encender su TV y STB, presione el botón del menú en su control remoto. Utilice las teclas de cursor alrededor del botón OK para mover el campo destacado a Canal-Explorar y presione OK. Usted puede necesitar reorientar su antena para alcanzar los mejores resultados. Si usted tiene una antena externa, puede ya haber sido orientado tales que él punto a las estaciones del transmisor.

Para ayudar en la orientación de su antena, un indicador de la intensidad de la señal se puede encender en el STB. Utilice el botón del menú y seleccione la intensidad de la señal o señale el artículo de la calidad para demostrar una barra de la calidad de la señal en la pantalla.

Aunque la TV digital dará una imagen muy clara cuando una señal se recibe en suficiente intensidad, una señal débil causará salidas o sin imagen. Las estaciones análogas acaban de ser recibidas con ruido en el sonido y la nieve en el cuadro, las transmisiones Digitales se pierden o tienen bloques grandes de las imágenes que faltan si la señal del RF es de intensidad o de calidad débil.

Reorientando su antena o conseguir una antena de una mejor calidad puede solucionar este problema. Algunos que encuentran pueden requerir para obtener los mejores resultados.

Gracias por elegir una caja encima del televisor Tivax y disfrute del mundo nuevo de la televisión Digital.

欢迎来到数字电视的世界

所有的机顶盒(STB)都已在工厂做过正常测试，如果您仍遇到问题，请按照以下简单步骤去排除

首先请确认您的电视和机顶盒都已插上电源，并且按照以下说明用RF线或A/V线（端子颜色：红白黄）将机顶盒连接到电视上。另外，请别忘记给遥控器装上电池。

选择RF连接：

机顶盒可以通过工作在RF模式连接到您的电视。在此模式下，请将机顶盒的RF-OUT接口连接到您电视的Antenna Input口。您的电视可调到3或4频道，同时您需要用机顶盒后面的拨动开关调到与电视相应的频道。

选择A/V连接：

如果您的电视装有A/V输入端口，有时标注为AV1或AVin，那么您可以选择用A/V端子连接电视获取较好的图像质量。像前面提到的，由于RF连接存在一定局限性，所以图像质量要低于A/V显示。

开机之前，请先用黄色A/V线连接机顶盒的AV-OUT口和您的电视AV-IN口，同样的，用红色和白色音频线连接电视和机顶盒颜色对应的端口。

连接好RF或A/V线后，请先打开您的电视，再打开机顶盒。按前面的电源按键（Power）启动机顶盒，或者用遥控器开机。机顶盒启动的时候会在您的电视上显示TIVAX标示。

由于不同的地区有不同的频道节目，您必须使用自动搜索功能来设置您机顶盒的频道。

请确认您已将适合的天线连接到机顶盒的天线输入端（标示为RF-IN），然后打开您的电视和机顶盒，按遥控器上的菜单键（Menu），使用“OK”周围的方向键将光标到移动频道搜索（Channel-Scan）按下“OK”键。您也可以调整您的天线方向以搜到最多的频道。如果您有室外天线，请确认天线已经指向了信号发射站

您可以使用机顶盒自带的信号强度显示功能，帮助您调节天线的方向。按菜单键（Menu）选择信号强度或信号质量这一项，屏幕会显示一个信号质量的指示条。

当信号足够强的时候，数字电视可以提供很清晰的画面，但信号比较弱的时候会出現画面停滞或无图像显示的情况。如果射频信号强度或质量不好，模拟接收会看到图像出现雪花并听到杂音，数字接收则会出现图像停滞或马赛克。请重新调整天线的方向或使用更高质量的天线来解决此类问题。为了获得更好的接受效果，请多试验几次。

感谢您选择了Tivax数字机顶盒去享受数字电视的新世界。

Table of Contents

Tivax Digital TV Converter User Manual- Important Safety Instructions	1
Important Safety Information.....	2
Welcome to the world of Digital TV.....	3~5
Tivax Set Top Box User Manual - Let's Get Started.....	7~9
How to Receive the Best Digital TV Signal with Your Antenna.....	10
1.1 Remote control	11
1.1.1 Installing the batteries.....	12
1.1.2 Using the remote control	12
1.2 Front Panel and Rear Panel Illustration	13
1.2.1 Front Panel.....	13
1.2.2 Rear Panel	13
1.3 Connecting your Atsc Converter Box.....	14
1.3.1 Connecting Antennas.....	14
1.3.2 Connecting to a TV Set.....	15
1.3.3 Connecting to an Audio System.....	16
2.On-Screen Menus.....	17
2.1 Auto Program.....	17
2.2 Manual Channel Set.....	18
2.3 Password	18
2.4 Parental control	18
2.5 Advanced Closed Caption.....	19
2.6 Language.....	20
2.7 Auto Power Down Timer.....	20
2.8 Smart Antenna.....	20
3. Troubleshooting	21
4. Specifications	22
5. Glossary.....	23
Tivax Limited Warranty To Original Purchaser.....	24

Tivax Set Top Box User Manual - Let's Get Started!

Congratulations on purchasing your Tivax Set Top Box!

Now you can start to receive the amazing world of Digital Television on your analog TV.

First please read these simple questions.

Question #1: What is a Tivax Set Top Box?

Answer: It is a special receiver that interprets FREE Digital TV signals into analog TV signals.

Question #2: If I can get ABC® or CBS® on my cable or satellite, why do I need a Tivax?

Answer: Because you are only getting a FRACTION of the FREE signals. Cable and satellite providers are not required to give you all FREE Digital TV signals. Why should they? You might be very pleased with better quality FREE Digital Television. That's the "secret" many people do not know. Tivax gives you immediate access to FREE Digital Television signals at no extra cost!

Question #3: If I already have cable or satellite, do I still need a Tivax to receive the FREE Digital Television signals?

Answer: Unless you have a Digital TV set, YES. Don't worry. You can combine your Tivax with your cable or satellite receiver. We'll show you how.

Question #4: Do I need an antenna to receive FREE Digital television signals?

Answer: Yes. Digital TV is just like old-fashioned Analog TV, only better. You still need an antenna to get the signal. Just about any antenna will do, but an antenna designed for Digital TV is better. While some antennas are better than others, it also depends on where you live. If you cannot receive Analog TV signals, you will not be able to get Digital TV signals. This is very important as your Tivax will not work.

Question #5: How do I test my TV to see if I can use my Tivax?

Answer: This is very easy. Simply disconnect your Analog TV from your cable or satellite receiver. Connect the antenna to your Analog TV. If you can receive a picture, your Tivax will work. Don't worry if the picture is not perfect. That's another special feature of Digital TV. It's BETTER! Digital TV signals don't have the same problems Analog TV signals do. That's why this new standard is so much better!

OK. You've now tested your Analog TV and demonstrated you can get FREE TV signals without cable or satellite. Now get ready...you are about to discover the wonderful world of FREE Digital TV!

Before we get started, here are a few easy technical terms you will need to know:

What is Analog Television?

Until recently, virtually all TVs in the USA were designed for Analog Television. Analog TV signals were designed in the 1940s, long before computer technology existed. Analog TV is based on an old standard called **NTSC**. Compared to Digital TV signals, the Analog picture is fuzzy and very inferior to Digital TV. This is why the US Government decided to turn off Analog TV signals in 2009.

Analog TVs cannot receive Digital TV signals. There are only 3 ways to see digital TV signals on your Analog TV:

1. You must have a Digital TV set. Your Analog TV cannot receive the amazing world of digital television
2. You must have a Digital TV tuner. Tivax is a Digital TV tuner.
3. You must pay for cable or satellite (remember...cable and satellite will not show you many of the FREE signals you can receive with your Tivax).

What is Digital Television?

This is the new broadcasting standard. Digital TV signals are based on a new standard called ATSC. In early 2009, all Analog TV signals will be turned off. This is Federal Law. Under the new Federal Law, cable and satellite may not be required to provide you access to all the FREE digital signals. Eventually, you will get some of these signals, but no one knows for sure when this will happen. It could be many more years before cable or satellite decide to give you access to all FREE Digital TV signals.

Digital Television is very exciting and offers too many features to be listed here. However, your Tivax Set Top Digital Receiver gives you the ability to enjoy most of these advantages on your Analog TV set!

High Definition Television

The High Definition Digital TV is similar to a computer data signal. It is also called HDTV. In other words, it is very sophisticated and can do many more things. The broadcast station can do more interesting things with a Digital TV signal, such as broadcast High Definition television. This is a very superior picture.

Your Tivax will easily decode the HDTV signal. You will be able to watch HDTV on your Analog TV. While you will NOT see the picture in its true High Definition format (only expensive High Definition TV sets can do this), you will be very surprised with the excellent picture quality.

The Digital TV signal is very powerful. A broadcaster can do many things with the Digital Television signal. Sometimes, when they want to show you a very high quality picture, they will transmit the program in High Definition. When this happens, you will only get ONE Digital Television signal at that moment in time. A good example when this happens is during Prime Time (8 pm to 11 pm). Football and baseball games are commonly transmitted in High Definition.

Multicast TV Signals

The Digital TV signal is very powerful. A broadcaster can also choose to show you more than one TV signal on the same frequency. (Analog TV cannot do this!) A broadcaster can provide FOUR or more excellent quality signals AT THE SAME TIME! This is called "multicasting". Tivax can decode this signal for you! A good example is during Day Time. Imagine signal #1 is dedicated to a soap opera, signal #2 is dedicated to a documentary, signal #3 is dedicated to a talk show and signal #4 is dedicated to a medical program. Only Digital TV can do this and Tivax can decode this for you!

Standard Definition Television

This refers to a TV picture that is NOT High Definition. When the broadcaster wants to show you more than one signal, they refer to this as Standard Definition (as opposed to HDTV). Standard Definition TV is also called SDTV. So. Are you ready to get started?

How to Receive the Best Digital TV Signal with Your Antenna

In this section we'll show you the following:

- 1.How to find Digital TV channels in your area
- 2.How to select the best antenna for your Tivax
- 3.How to scan and store Digital TV channels with your Tivax

How to find Digital TV channels in your area

The number of Digital TV channels varies greatly within each local area, so it is best to look up your available channels by visiting special web sites, such as:

- www.titantv.com
- www.dtv.gov
- www.tvguide.com

In addition, you can also find excellent local information from performing searches on the internet.

Due to the proliferation of DTV channels, it is difficult to get the latest information from newspapers or other printed sources.

In addition, the number of channels you receive depends on your physical location, your antenna and the location of the broadcast antenna. Broadcast television signals are "line of sight", which means the best signals are received by pointing directly at transmitter. Buildings, mountains and other obstructions will affect the quality of the signal you receive.

Selecting Your Antenna

After you have determined the available channels in your area, you will need to select an antenna. The mini-antenna provided with your Tivax will work in most cases, but it may not be your best option, depending on your location.

Q. Can I use my existing indoor antenna?

A. Yes, but it may not give you the best results. Most likely, your existing antenna was designed for analog television and is not designed specifically for DTV. If you get good results, great! (Be sure you connect the antenna to your Tivax.)

Q. Can I use my existing outdoor antenna?

A. Yes. This will be a much better antenna and provide you with a better DTV signal. (Be sure you connect the antenna to your Tivax.)

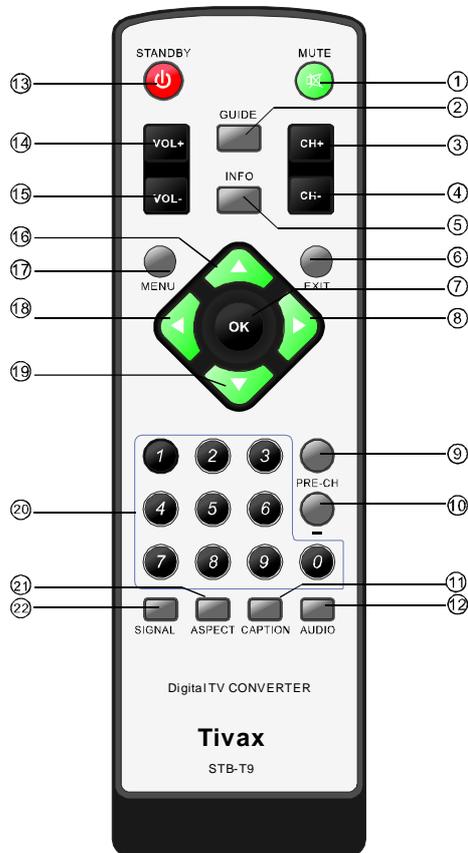
Q. Do I need to upgrade my antenna?

A. If you are not pleased with the results, then this is recommended. There are many new antennas designed for DTV and are available at most retail electronic and other stores where televisions are sold. If your antenna provides a fair signal, upgrading to a better quality DTV-designed antenna *should* help. Remember to point the antenna in the proper direction to receive the strongest signal. Your local retail center can provide the best advice to receive the strongest DTV signal.

Scanning & Storing DTV Channels with Your Tivax

After installing the antenna, point it towards the DTV broadcast transmitter or where there are the largest number of DTV stations. Now you can scan for DTV channels and store them. More information on how to scan channels is available in later parts of the manual.

1.1 Remote Control



Remote Key Function:

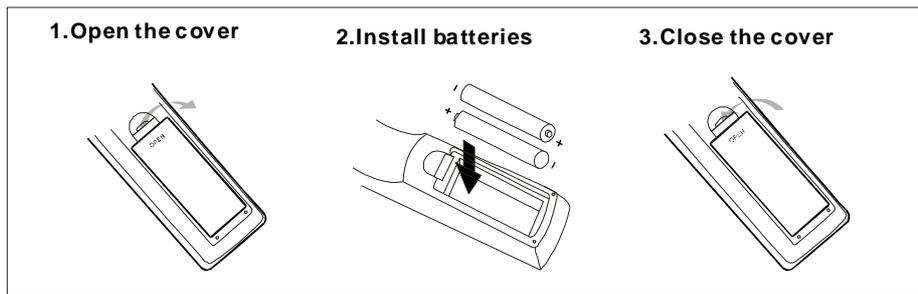
1. **MUTE:** Press to mute or unmute the audio output.
2. **GUIDE:** Press to display the on-screen Electronic Program Guide (EPG).
3. **CH+:** Press to change the channels in non-menu state.
4. **CH-:** Press to change the channels in non-menu state.
5. **INFO:** Press to display information about the channel being viewed.
6. **EXIT:** Press to completely exit from the on-screen menus

7. **OK:** While using the on-screen menus, press ENTER to activate (or change) a particular item.
8. **▶ :** Press to move around the menu screens
9. **PRE-CH:** Press to return to the previous channel you viewed.
10. **- :** Press to input dash to select a channel, for example 14-1.
11. **CAPTION:** When a digital signal is received, Service1, Service2,... or Service6 can be selected. When an analog signal is received, CC1, CC2, CC3, or CC4 can be selected.
12. **AUDIO:** Press to select the available multi-tracks. (Depending on the particular broadcast, one or more foreign language translations might be available.)
13. **STANDBY:** Press to switch the Converter Box to on and off.
14. **VOL+:** Press to increase the output volume level.
15. **VOL-:** Press to decrease the output volume level.
16. **▲ :** Press to move around the menu screens
17. **MENU:** Press to display the main menu or to switch back to the previous menu screen that was displayed.
18. **◀ :** Press to move around the menu screens
19. **▼ :** Press to move around the menu screens
20. **NUMBER KEYS:** Press to directly tune to a particular channel or input digits in menus.
21. **ASPECT:** Press to change the screen format (Normal/Zoom/Wide/Cinema) according to the screen aspect ratio and the input signal format.
22. **SIGNAL:** Press to show the signal strength.

1.1.1 Installing the Batteries

Remove the battery cover from the remote control and put 2xAAA size batteries inside the compartment.

The diagram inside the battery compartment shows the correct way to install the batteries.



1.1.2 Using the Remote Control

To use the remote control, point it towards the front of the Digital Converter Box.

The remote control has a range of up to 7 meters from the Digital Converter Box at an angle of up to 60 degrees.

The remote control will not operate if its path is blocked.



Sunlight or very bright light will decrease the sensitivity of the remote control.

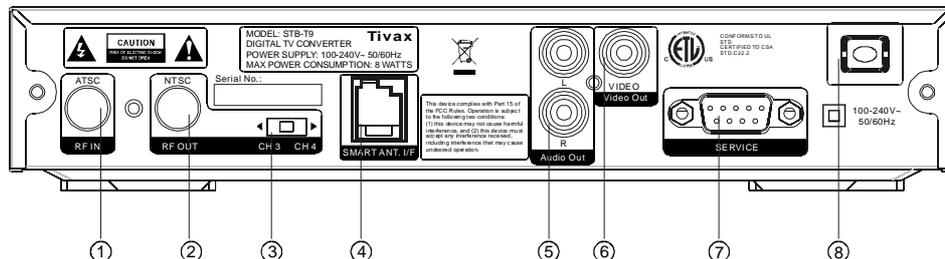
1.2 Front Panel and Rear Panel Illustration

1.2.1 Front Panel



- ① **STANDBY BUTTON:** Used to switch the set top box on and off.
- ② **STANDBY INDICATOR:** Used to visually show power state of the Digital Converter Box, the red LED will be on if the Digital Converter Box entered standby mode.
- ③ **REMOTE CONTROL SENSOR:** Used to receive the signal from the remote control.
- ④ **CHANNEL UP/DOWN:** Used to change the channels in the non-menu state.

1.2.2 Rear Panel



- ① **RF IN :** Connect the antenna or CATV cable here.
- ② **RF OUT:** This socket will transmit the NTSC CH3/4 RF signal to your TV ANT in socket.
- ③ **CH3/4 SWITCH:** Select NTSC channel (Channel3, Channel4).
- ④ **SMART ANT I/F:** Connect to an external smart antenna.
- ⑤ **AUDIO L/R:** Connect these terminals to the analog audio inputs of a TV set (i.e., to a TV that has jacks for L/R inputs). Or connect these terminals to the L/R inputs of a separate audio component.
- ⑥ **Video output:** Connect this jack to the Video Input jack on your TV using an Audio/Video cable. This output port supports only the SD output.
- ⑦ **SERVICE**
- ⑧ **MAIN POWER:** Connect to main power supply using the power cord.

1.3 Connecting The Digital Converter Box

The following diagrams are of typical configurations only, and may differ slightly to your existing external equipment. If you are unsure how to connect to your Digital Converter Box, always consult your manufacturer's user manual supplied with your equipment.

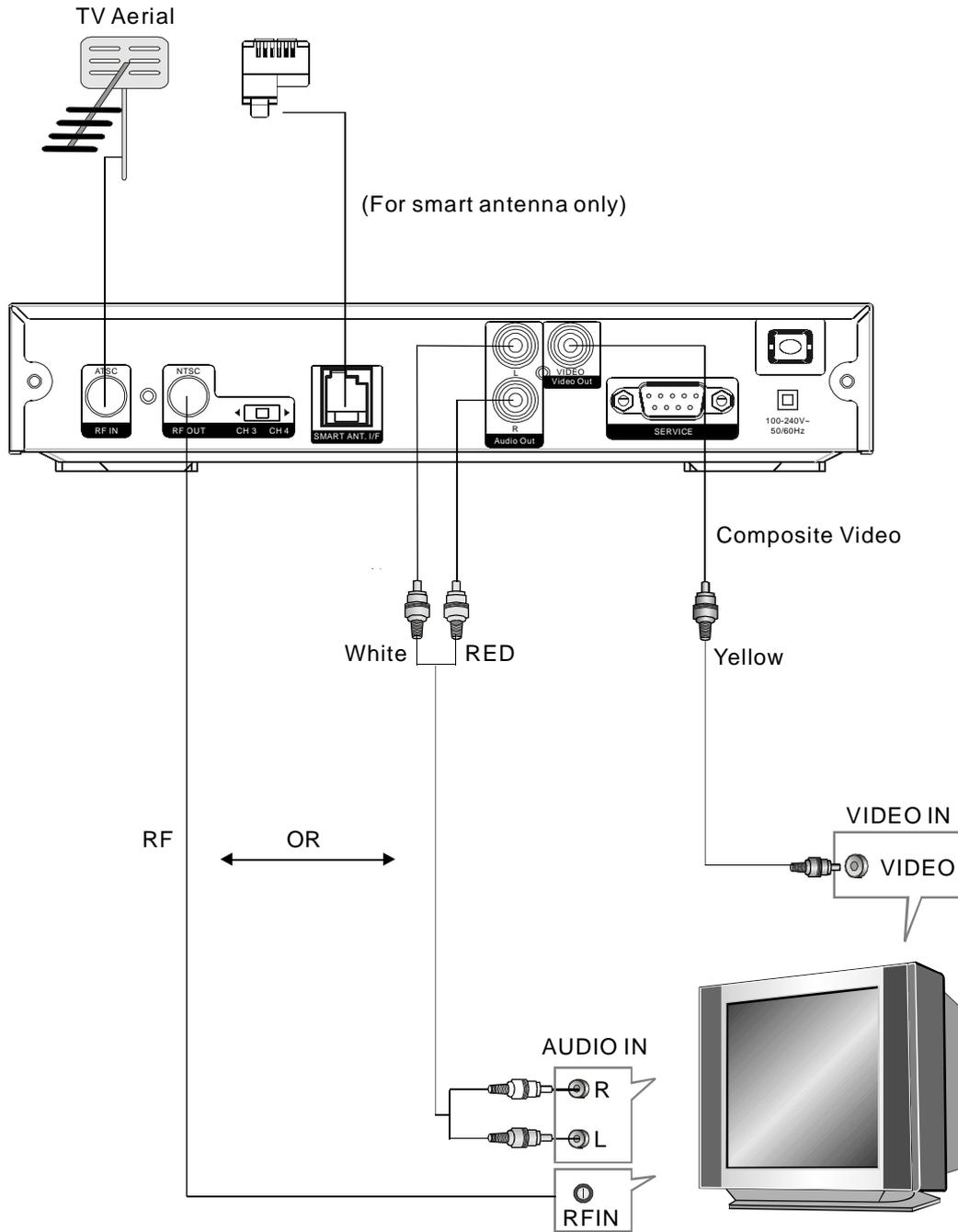
1.3.1 Connecting Antennas

This section tells how to connect an indoor or outdoor antenna to your Digital Converter Box. You may need a 75Ω adaptor or a combiner.

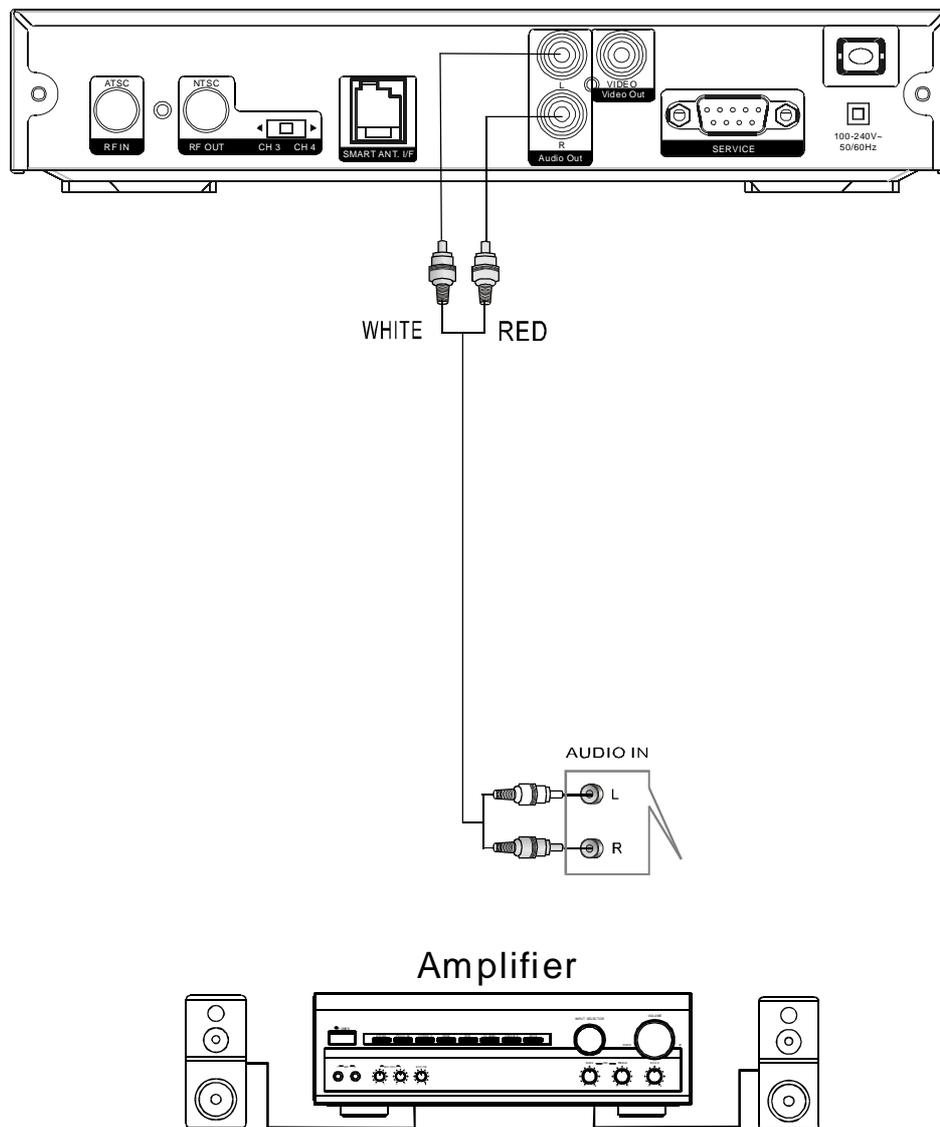
NOTES:

- A. If your antenna has separate leads for VHF/UHF signals, you will need to purchase a combiner to combine it before connect to the receiver.
- B. The Digital Converter Box can receive DTV signals in the event that a local cable provider is passing 8VSB through on their system. (8VSB is the RF modulation format utilized by the DTV(ATSC) digital television standard to transmit digital bits over the airwaves to the home consumer.)
- C. When Receiving Digital Cable Signal : If your cable service signal does not comply with the ATSC requirement, this product may not operate properly.

1.3.2 Connecting to a TV



1.3.3 Connecting to an Audio System



2. On-Screen Menus

Ensure all connections have been made following the diagrams on the previous pages for reference.

When you plug the power cord of this set-top box into a power outlet and press the **POWER** switch on the front panel, the box will be turn on for the first time. Press **STANDBY** button on the remote control will switch the set-top box to or from standby mode.

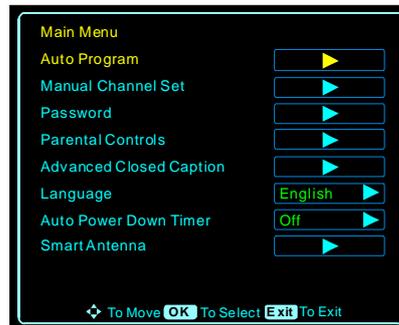
Turn on the TV set and switch it to external AV mode, you will see the picture come from the box.

If it is the first time you use this device, an Auto Program menu appears to let you to scan all the available channels in your area.



Main Menu

Press the **MENU** button on the remote control, the main menu will display as below. the **Auto Program** focus is highlighted as default.



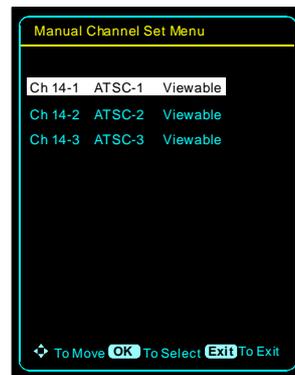
2.1 Auto Program

If it's the first time you use the box, you should scan all the TV channels first, press the arrow buttons to move the cursor to **Auto Program** in main menu, press the **OK** button to confirm, you will see below menu which indicates auto search is in process. After all channels in your area are found, you will see the first found channel showing on the screen. Any time if you want to start auto channel search again, you can follow the above procedure.



2.2 Manual Channel Set

You can highlight this item and press **OK** button to confirm it, you will see below menu showing on screen. You can specific the selected channel “Viewable” or “Not viewable”, the not viewable channels will be skipped when you do zapping next time.



2.3 Password

When this item is highlighted, press the **OK** button will enter the **Enter Old Password** menu as below.

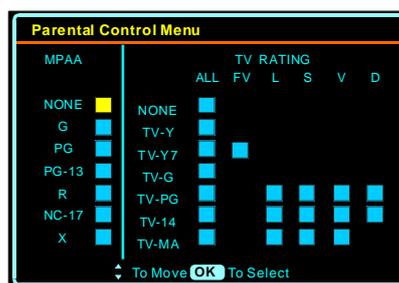


When you entered the correct password (the default password is 6666), the **Enter New Password** and **Confirm New Password** will pop up sequentially, if the new input passwords verified successfully, the **Password Changed** message will pop up in the right up corner.

2.4 Parental Control

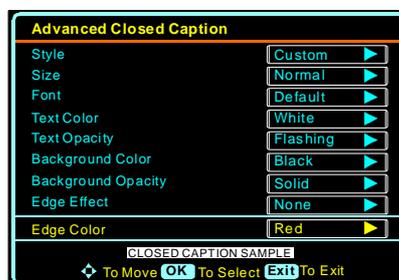
When this item is highlighted, press the **OK** button will enter the **Enter Password** menu, you will enter the **Parental Control Menu** as below if the password you entered is correct. This device support 2 rating systems used in the United States: 1), **The Motion Picture Association of America's (MPAA)** ratings include the following ratings: **G**(General Audiences-All Ages Admitted), **PG**(Parental Guidance Suggested. Some Material May Not Be Suitable For Children), **PG-13**(Parents Strongly Cautioned. Some Material Maybe Inappropriate For Children Under 13), **R**(Restricted, Under 17 Requires Accompanying Parent Or Adult Guardian), **NC-17** (No One 17 And Under Admitted).

2), The **TV Rating system** include the following ratings: **TV-Y**(all children) and **TV-Y7**(directed to older children), **TV-G** (general audience), **TV-PG**(parental guidance suggested), **TV-14**(parents strongly cautioned), and **TV-MA**(mature audiences only). The letters **FV**(Fantasy Violence), **V**(moderate Violence), **S** (mild Sexual situations), **L**(mild coarse Language), **D**(mature themes suggestive Dialogue) were added to indicate the presence of violence, sex, language, suggestive dialogue respectively.



2.5 Advanced Closed Caption

When this item is highlighted, press the **OK** button will enter the **Advanced Closed Caption** menu as below.



If you choose the **Style** as **Automatic**, the caption **Size/Font/Text Color/Text Opacity/Background Color/Background Opacity/Edge Effect/Edge Color** will be set to Automatic also, and you will see help information **DECIDED BY BROADCASTING** at the bottom of the menu.

If you choose the **Style** as **Custom**, you will see help information **CLOSED CAPTION SAMPLE** at the bottom of the menu, you can change all above caption related parameters separately as you want.

2.6 Language

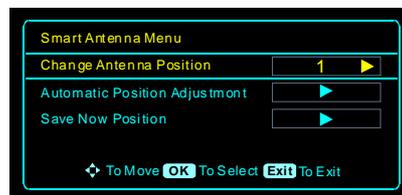
When this item is highlighted, you can press **OK** button to change the OSD menu language as you want, there are 3 options: **English, Spanish, French.**

2.7 Auto Power Down Timer

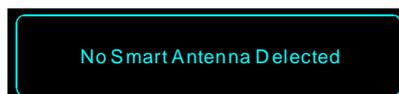
When this item is highlighted, press the **OK** button you can choose the options: **Off, 2 hours, 4 hours.** the receiver will enter standby mode according to the specific setting if the latter 2 options chose.

2.8 Smart Antenna

When this item is highlighted, press the **OK** button you can enter the below menu if a smart antenna is presented at the rear panel of your box,



If the smart antenna not presented you can not enter above menu, you will see below **No Smart Antenna Detected** message.



3. Troubleshooting

Q: It takes a while to display picture on the screen after turning power on or after changing channel.

A: It will take several seconds for this receiver to show the logo or picture after power on since the system have to finished the initialization of the main chip and demodulator. In case of digital broadcasting, it could take 1 to 2 seconds to receive data. Therefore, it is not a faulty receiver if the picture display is delayed.

Q: There is no picture on the screen.

A: Make sure the power is on.

Make sure the cable between the receiver and the TV is connected properly.

Make sure the TV's external video input mode is selected correctly.

Make sure the video output is selected correctly.

Make sure the antenna is positioned correctly.

Try turning the receiver off and then back on again.

Q: Poor video quality or screen flickering.

A: This is a result of a poor broadcast signal.

Rotate the antenna to a different direction.

Q: No Sound.

A: Make sure the cable between the receiver and the TV audio jack or your audio system is connected properly.

Try pressing the MUTE button on the remote.

Try pressing the VOL+ button on the remote continuously.

Try turning the receiver off and then back on again.

Q: The remote control does not work.

A: Make sure there is no obstruction between the remote controller and the remote sensor of the receiver.

Make sure the distance and degree is not out of range.

Check to insure the batteries are installed correctly.

Install a pair of new batteries.

4. Specification

Product Name

Digital TV Converter

Power Supply

Input Voltage: 100 - 240V~ 50/60Hz

Power Consumption:Maximum 8W,Standby <1W.

Decoder

Video Format: Standard definition CVBS.

Audio Format: Dolby Digital audio

R F Signal Input/Output

ATSC Antenna/Cable RF In: F-Connector

NTSC Ch3/4 RF out: F-Connector

Antenna Impedance: 75 Ohms

Channels: VHF 2 -13 , UHF 14 - 69

Smart Antenna interface

Video Outputs

Composite Video Output for standard analog sets: RCA Connector

Audio Outputs

Analog Audio Outputs (L/R): RCA Connectors

Service

Software upgrade through RS-232 port: 9 pin D-Sub type

5. Glossary

ATSC:

“Advanced Television Systems Committee.” Formed to establish technical standards for U.S. advanced television systems. Also, the name given to the 8-VSB transmission standard itself.

NTSC:

"National Television Systems Committee" and the name of the current analog transmission standard used in the U.S., which the committee created in 1953.

Analog TV:

Analog technology has been in use for the past 50 years to transmit conventional TV signals to consumers. "Standard" television broadcasts in analog TV. Analog signals vary continuously, creating fluctuations in color, brightness and quality.

Digital Television (DTV):

Digital TV is the umbrella term encompassing High-definition Television and several other applications, including Standard Definition Television.

SDTV:

"Standard Definition Television." Digital formats that do not achieve the video quality of HDTV, but are at least equal, or superior to, NTSC pictures. SDTV may have either 4:3 or 16:9 aspect ratios, and it includes surround sound. Variations of fps (frames per second), lines of resolution, and other factors of 480p and 480i make up the 12 SDTV formats in the ATSC standard.

HDTV:

"High-definition Television." This is the most superior video picture available in Digital TV. In the U.S., the 1080i and 720p formats in a 16:9 aspect ratio are the two acceptable HDTV formats. HDTV is a component of DTV.

Dolby Digital:

This is a digital surround sound technology used in movie theaters and upscale home theater systems that enhances audio. Home theater components with this technology work in conjunction with a "5.1-speaker" system (five speakers plus a low-frequency subwoofer) to produce true-to-life audio that draws the listener into the onscreen action. Six discrete audio channels are used: Left, Center, Right, Left Rear (or side), Right Rear (or side), and a subwoofer -- LFE, "low frequency effects" -- (considered the ". 1 " as it is limited in bandwidth).

Smart Antenna:

A smart antenna system combines multiple antenna elements with a signal-processing capability to optimize its radiation and/or reception pattern automatically in response to the signal environment.

Tivax Limited Warranty To Original Purchaser

Tivax warrants this product purchased in the USA against defects in material and workmanship for a period of 3 months from the date of purchase under normal use and service. Products will not be warranted if the serial number is removed or defaced.

This warranty shall be void upon transfer of ownership of this product and is effective only when used in the United States, excluding U.S. Territories.

Tivax agrees to repair or replace this unit at no charge, within the warranty period, providing that the product is delivered to Tivax in its original package or equivalent, fully insured, with all shipping charges prepaid and a return authorization number listed on the outside of the packaging. A handling charge of \$25 will be applied to any returned product found not to be defective. To honour this warranty and to ensure the best service to our customer, Tivax requires the following information to be included with the returned unit:

A copy of the original sales invoice from your vendor.

Model number & serial number of the unit.

A detailed description of the problem, associate electrical connection and hardware.

A Return Authorization number can be obtained by faxing to 650.240.3950 or emailing support@tivax.com prior to returning the unit.

This warranty contemplates the owner will reasonably maintain this instrument or product without alteration, negligent use, misuse, or abuse. Furthermore, any unauthorized alteration of this device without written approval by Tivax will void any warranty and the owner's right to operate this device.

This warranty presented above is exclusive and in lieu of all other expressed or implied warranties. Any warranty applicable to this product is limited to the period described above. In no event will Tivax be liable for any special, incidental, or consequential damage, loss of revenue, or cost of replacement goods resulting from the use of malfunction of this product to the equipment system on which it is used. This warranty gives specific legal rights and you may have other rights that vary from state to state.



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