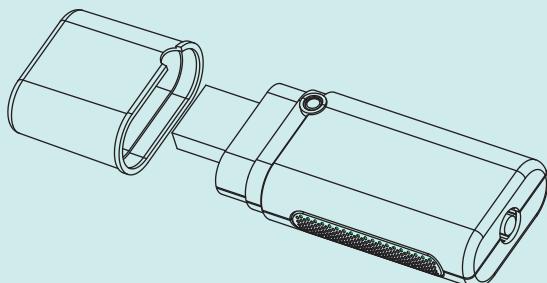


# Mini Digital TV Receiver

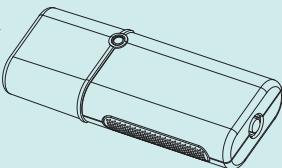
a — t — s — c



User Manual

# Digital TV Receiver User Manual

This user manual teaches you about the Digital TV Receiver and how to take full advantage of its features. Information in this document has been carefully checked for accuracy; however, no guarantee is given to the correctness of the contents. The information in this document is subject to change without notice.



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Windows is the trademark of Microsoft Corporation. Centrino™ is the trademark of Intel, Inc. All other trademarks are the property of their respective owners.

## Safety information

Do not disassemble the TV Receiver. Touching the product's internal parts could result in injury. In the event of a malfunction or if the TV Receiver is accidentally broken open, take the product to an authorized service center for inspection.



### Regulatory information

This product conforms to the FCC regulatory standards.

### FCC Notice

This equipment has been tested and found to comply with Class B, 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.

Any changes or modifications made to this device may void the user's authority to operate this device.

This device generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this device 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 device and receiver.
- Connect the device to an electrical outlet on a circuit different from that to which the receiver is connected.
- Consult a dealer or an experienced technician for help.
- All external cables connecting to this basic unit must be shielded.

### CAUTION:

To assure continued FCC compliance, any changes or modifications not expressly authorized by the guarantee of this device could void the user's authority to operate the equipment.

## Important Safety Instructions

Keep this manual in a safe and handy place to refer to if necessary. For your personal safety and product protection, follow the instructions in the manual to handle and install the product components correctly.

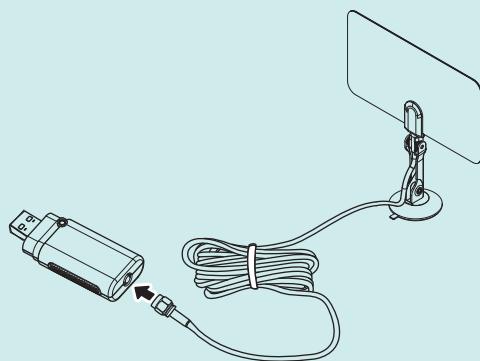
1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings and follow all instructions.
4. Do not use this apparatus near water.
5. Clean only with a dry cloth.
6. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
7. Do not place near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
8. Only use attachments/accessories/cables specified by the manufacturer.
9. Connect attachments/accessories/cables only in accordance with the manufacturer's instructions.
10. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as liquid has been spilled onto the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
11. Do not expose this apparatus to dripping or splashing liquids. Do not place any objects filled with liquids on the apparatus.
12. **WARNING:**  
To reduce the risk of fire or electric shock, do not expose this appliance to rain or moisture.

### 13. **CAUTION:**

- a) Do not perform any servicing other than those specified in this manual. All other servicing should be referred to qualified service personnel.
- b) This product is equipped with a laser device. Be sure to observe the following precautions while operating. Failure to do so could result in fire, bodily injury, and damage to the equipment.

# Introduction

Congratulations on purchasing the Digital TV Receiver. This product is designed specially to help you view digital TV programs on your computer using a USB interface. The device is powered by the USB interface and needs no external power adapter making it possible to watch high quality TV at home, in your office, in a coffee shop, or at the airport.



## System requirements

The following system requirements are necessary to operate the TV Receiver:

### System requirements for Standard Digital TV

- Desktop or Notebook
- Microsoft Windows XP SP2 / Vista 32/64 bits
- P3 1.0 GHz CPU or above
- 256 M RAM or above
- VGA Card with at least 64 MB Memory
- Microsoft Direct X 9.0 or above
- Sound Card or on board sound chip
- Digital Terrestrial TV Antenna (Included)
- One USB 2.0 port

### Hardware requirements for PIP function

- P4 2.0 GHz CPU or above
- 512M RAM or above
- VGA card with at least 256MB memory and support VMR9

### Hardware requirements for HDTV function

- P4 2.8 GHz CPU or above
- 512M RAM or above
- VGA card with at least 256MB memory and support VMR9

## Features

Your TV Receiver has been designed with a wide range of features making it very easy and convenient to watch TV from your PC.

- TV tuner with terrestrial digital TV program reception
- Supports ATSC protocol
- USB2.0 high speed interface designed for HDTV
- Digital terrestrial TV playback
- Channel auto scan at 6 MHz
- Real-time digital video recording
- Scheduled recording
- Still picture capture (Snapshot)
- MTS (SAP, secondary audio program)
- Time-shifting
- EPG (Electronic Program Guide)
- PIP (Picture in Picture)
- Closed Caption
- "On-the-Fly Decode" software technique (auto-update channel information)
- Portable device requires no external power supply—powered directly from USB port

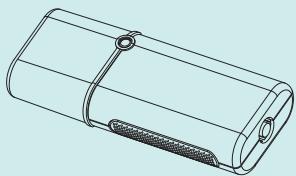


#### Notes:

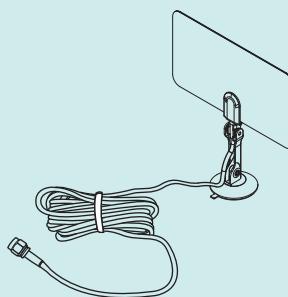
Other features is upgradeable through our web site:  
[http://info.ultima.com.tw/fae/Service\\_e/nl/home/drivers.htm](http://info.ultima.com.tw/fae/Service_e/nl/home/drivers.htm)  
or <http://www.ultima.com.tw>

# Package contents

Make sure that your package contains the following items.



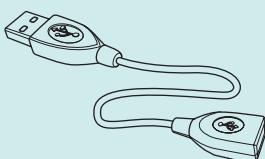
TV Receiver



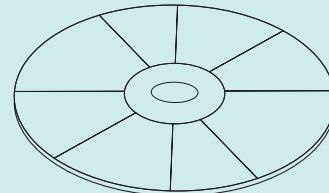
Antenna



Antenna Connector



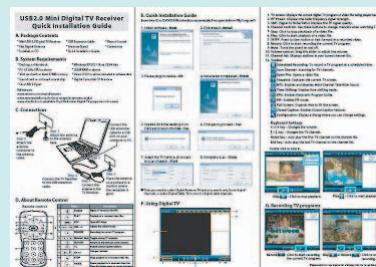
USB Extension Cable



Compact Disc  
(Contains Application driver & User manual)



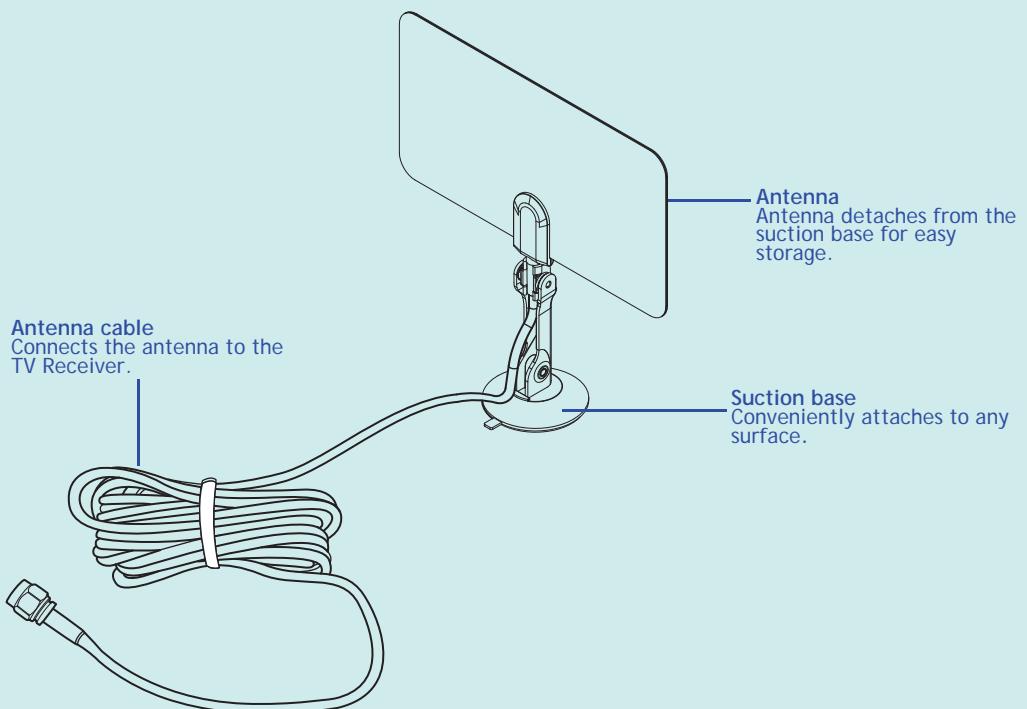
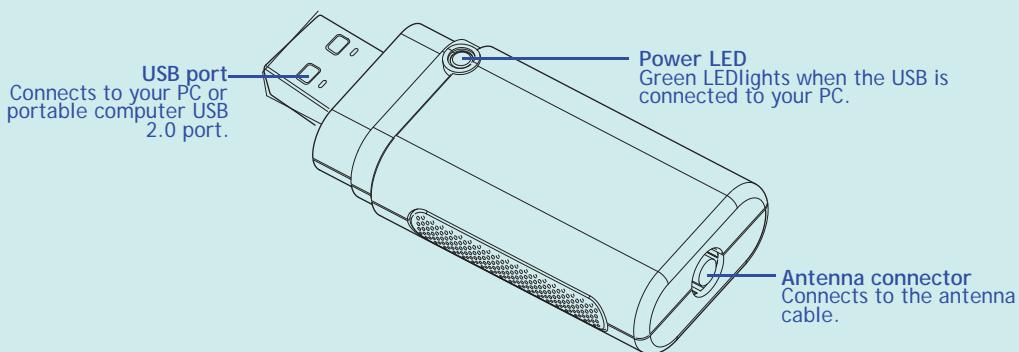
Remote Control



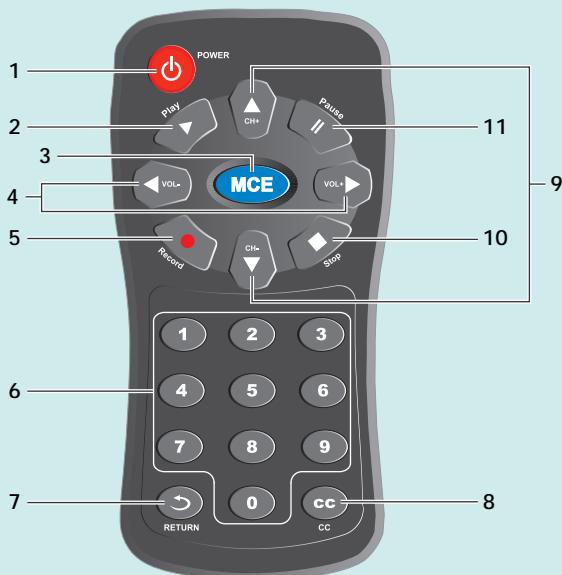
Quick Installation Guide

- If any of these items appears to be missing or damaged, contact your nearest vendor for assistance.

# TV Receiver components



# About the Remote Control

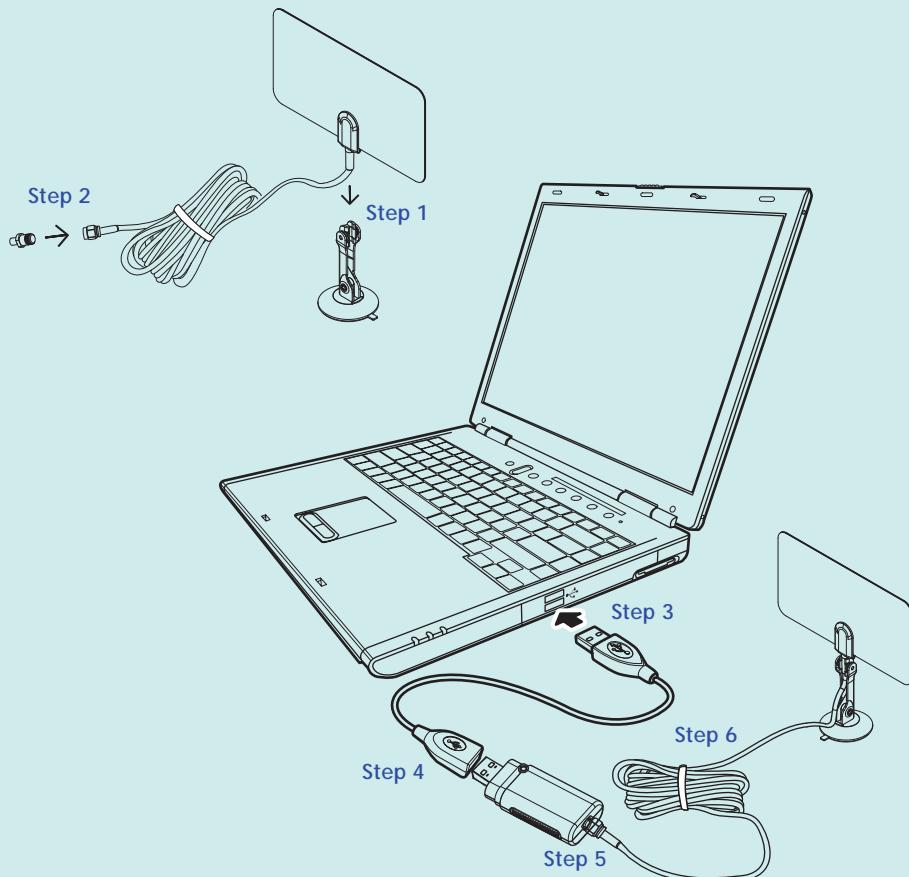


	Name	Description
1.	POWER	Digital TV Receiver ON/OFF.
2.	PLAY	Playback of a recorded video file.
3.	MCE	Open MCE Setup.
4.	VOL +/-	Adjusts the volume levels.
5.	RECORD	Recording the current TV program.
6.	Number keys	Toggles among TV channels.
7.	RETURN	Returns to the previous active channel.
8.	CC	Enables Closed Caption feature.
9.	CH +/-	Changes channels.
10.	STOP	Stops playback of a recorded video file.
11.	PAUSE	Pauses playback of a recorded video file. Press the button again to resume playback.

# Making connections

Connect the antenna and the USB cable to the TV Receiver as follows:

- Step 1. Attach the antenna to the antenna base.
- Step 2. Attach the antenna connector to the antenna cable.

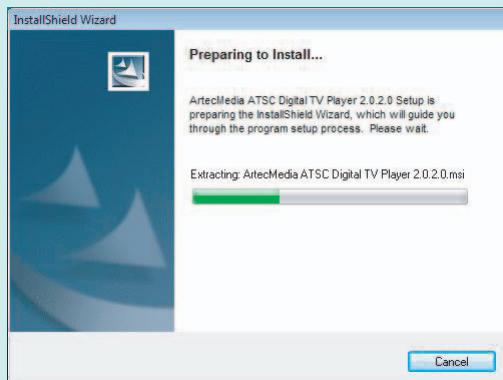


- Step 3. Connect the USB extension cable to a USB port on your notebook or PC.
- Step 4. Connect the TV Receiver to the USB extension cable.
- Step 5. Connect the antenna cable to the TV Receiver.
- Step 6. Place the antenna on a surface in a location where the reception is good.

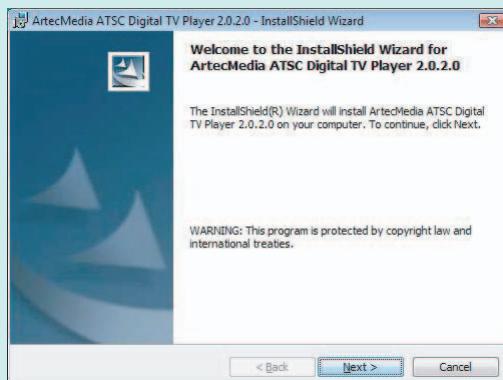
# Installing Application and driver

Digital TV, provided on the software CD in your package, is the software application that enables you to view digital TV programs on your computer. The drivers for your TV Receiver are provided on the software CD in your package. Follow the instructions on the screen to install application and driver for your device.

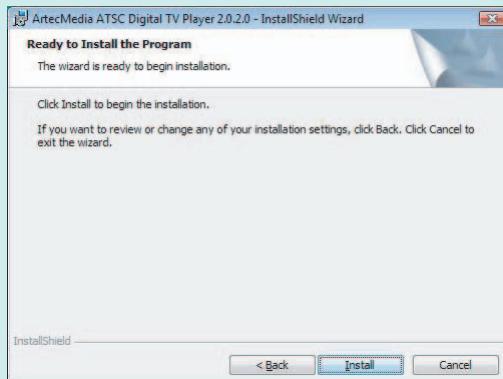
1. Insert the software CD into your computer's CD-ROM drive. The installation should start automatically, If doesn't start, locate the **Setup.exe** file on the CD and double-click it.



2. Click **Next** to start application installation.

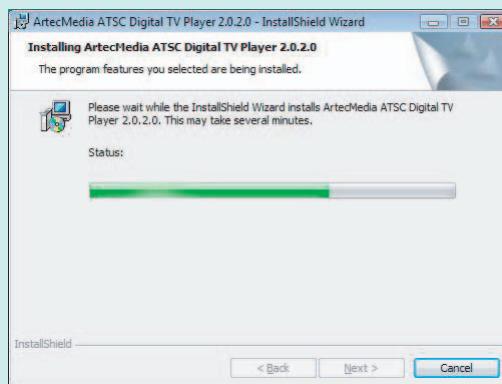


3. Click **Install** to begin the installation.

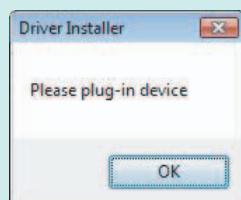


# Installing Application and driver

## 4. Installation....



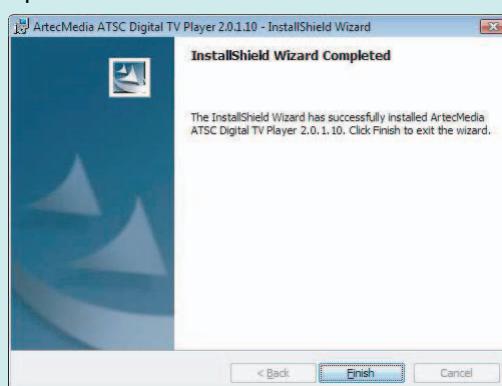
## 5. Please plug-in USB device, Click OK to continue the installation.



## 6. Click Yes to restart your computer.



## 7. Click Finish to complete installation.



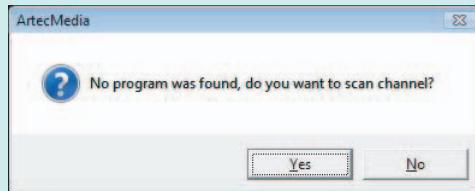
The installation screen on different versions of operation system might slightly different, however the function is the same.

# Installing Application and driver

8. Double click the desktop icon.



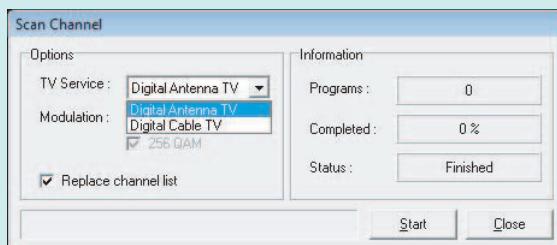
9. Click Yes to scan channel.



10. Click Yes to proceed.

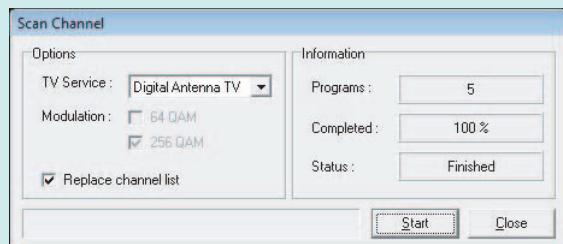
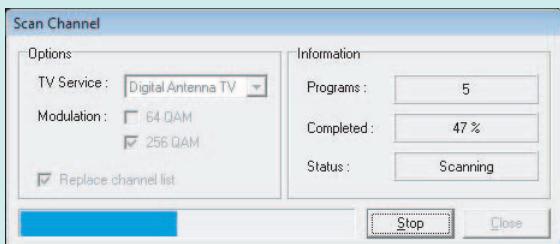


11. Select the TV Service, click Start to scan channel.



- Then you need to select Digital Antenna TV option to search only for air digital channels, or select Digital Cable TV to scan for digital cable channels.

12. Starts scanning for available digital TV signals, click Close to complete scan.



# Using Digital TV

Digital TV enables you to view digital TV signals with ease and simplicity.

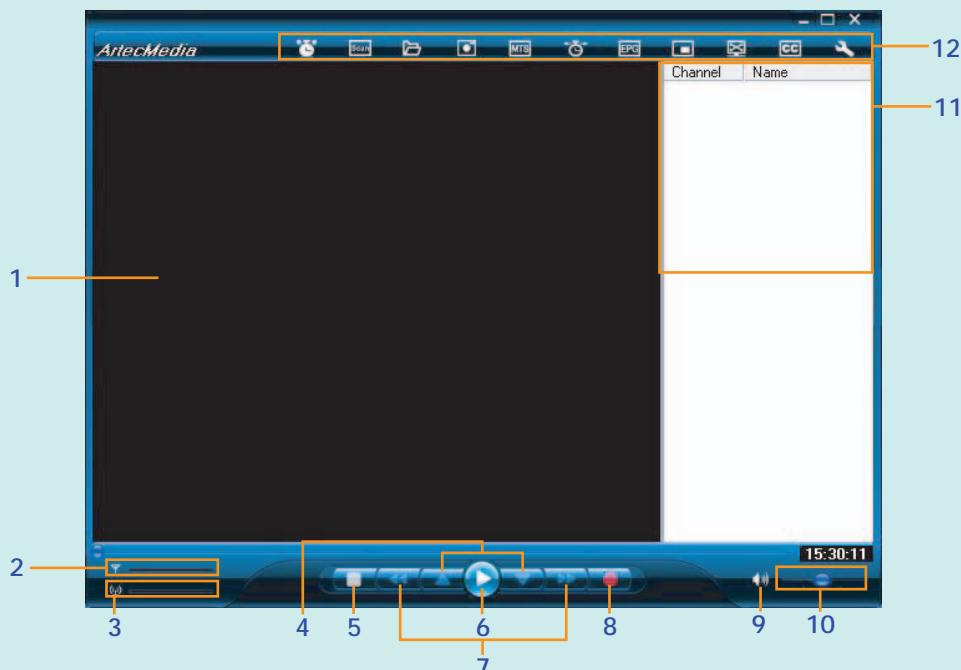
The simple user interface of this application makes watching TV on your PC a quick and convenient task.

Start Digital TV by clicking Start | Programs | Ultima | ArtecMedia Digital TV Player from the Windows Start Menu.

Or double click the desktop icon.



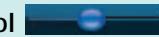
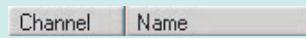
The following illustrating displays the main components of the Digital TV interface:

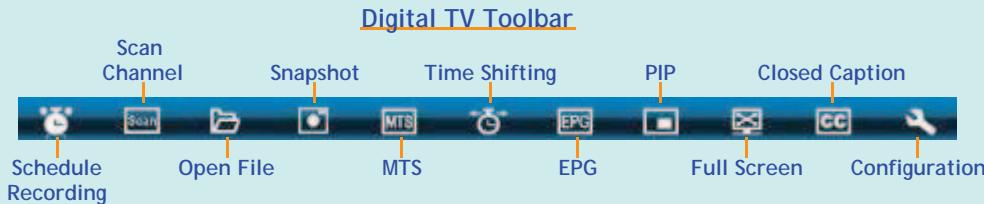


The Digital TV application window consists of the following (counterclockwise from TV Screen):

1. TV screen: Displays the current digital TV program or video file being played back.
2. RF Power : Displays the radio frequency signal strength.
3. SNR : (Signal to Noise Ratio) Displays the RF signal quality.
4. Channel controls : Use these buttons to change channels when watching TV.
5. Stop : Click to stop playback of a video file.
6. Play : Click to start playback of a video file.
7. FR / FF : Press to fast reverse or fast forward in a recorded video.
8. Record : Click to start recording the current TV program.

# Using Digital TV

9. Mute  : Turns the sound on and off.
10. Volume control  : Drag this slider to adjust the volume.
11. Channel list  : Displays stations in your tuned channel list.
12. Toolbar:
  - Scheduled Recording: To record a TV program at a scheduled time.
  - Scan Channel: Scanning for TV channels.
  - Open File: Opens a video file.
  - Snapshot: Captures the current TV screen.
  - MTS: Enables and disables Multi-Channel Television Sound.
  - Time Shifting: Enables time shifting mode (see [Time Shifting](#) on page17).
  - EPG: Enables Electronic Program Guide.
  - PIP: Enables PIP mode (see [Picture in Picture \(PIP\) mode](#) on page19).
  - Full Screen: Expands view to fit the screen.
  - Closed Caption: Enables Closed Caption feature.
  - Configuration: Display a dialog where you can change settings.



## Keyboard hotkeys

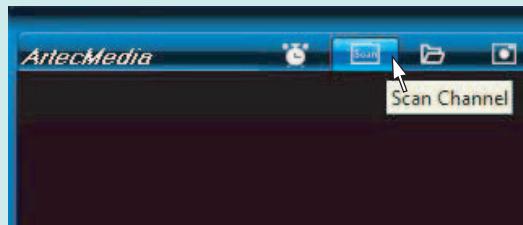
In addition to the buttons on the control panel or the popup menu, you can also use the keyboard hotkeys to perform various functions. The keyboard hotkeys are listed as follows:

- ←/→ key : Changes the volume.
- ↑ / ↓ key : Changes the TV channel.
- Home key : Auto play the first TV channel on the channel list.
- End key : Auto play the last TV channel on the channel list.

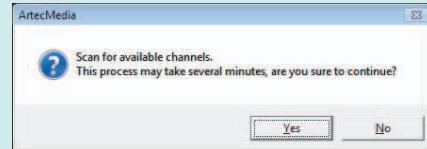
# Scanning for TV channels

Now that you have set your TV Receiver and installed the necessary software, you can scan for available channels and watch digital TV. To scan for available digital TV signals, do the following:

1. Click the channel tab in the Digital TV application window.
2. Click the Scan button .

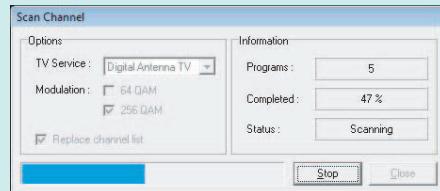


3. Click Yes to proceed.



4. Select TV Service, click Start to scan channel.
  - Then you need to select Digital Antenna TV option to search only for air digital channels, or select Digital Cable TV to scan for digital cable channels.
5. The TV Receiver starts scanning for available digital TV signals.

The tuner searches the 6 MHz bands for digital programs.



Once the scanning is complete, the available programs are listed in the channel list (see [Using the channel list to change channels](#) on page14).



## Notes:

- When scanning for the first time, make sure to do so in an open environment (for example, near an open window) so as to receive all the available channels with good signal strength or reference internet.  
[www.antennaweb.org](http://www.antennaweb.org) (for best reception antenna angle)  
[www.checkhd.com](http://www.checkhd.com) (available High Definition Digital TV programs in the area)
- Scan for TV channels again if you travel with your TV Receiver to a different region or state.
- If you can not play Digital TV from channel list, you may have to exit and re-enter "Digital TV program" or re-scan the program again.
- Because of signal quality varies from time to time (this may cause by the antenna has been moved or signal path has been blocked by the big object), not all channel list will be playable every time. Please check the Antenna position or re-scan the program again.
- Encrypted channels are not watchable by HDTV USB tuner dongle)  
For more information on "unencrypted/unscrambled QAM Digital Cable channels", please refer: [http://en.wikipedia.org/wiki/QAM\\_tuner](http://en.wikipedia.org/wiki/QAM_tuner)

# Watching TV

Once the TV Receiver has completed scanning for channels and found available digital TV programs, it displays the first available TV program on the TV screen. Change channels and view other programs using the channel list.

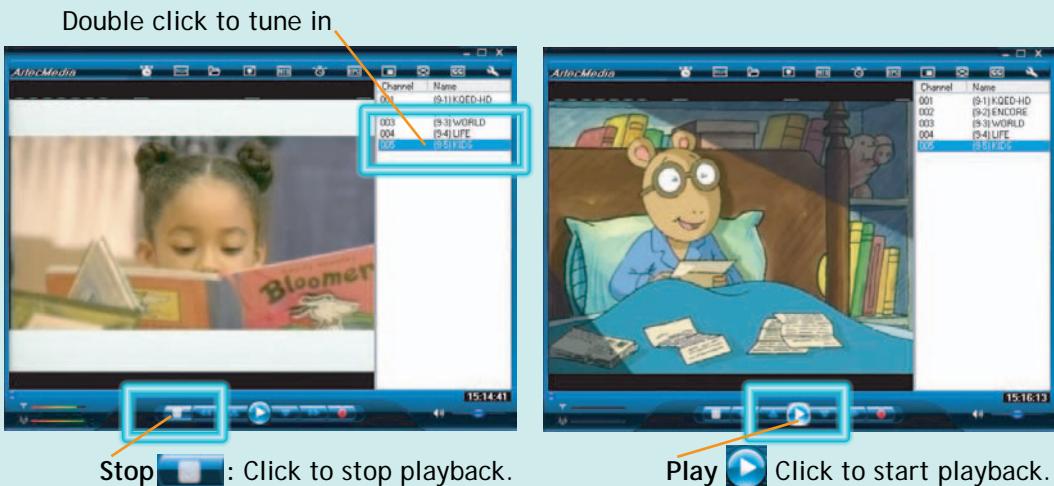
## Using the channel list to change channels

The list shows all the available digital TV channels.

To view a program, do one of the following:

- Double-click the desired program name to view it. The list remains open.
- Click or in the Digital TV application window to view the next or previous channel respectively.

Channel	Name
9-1	KQED-HD
9-2	ENCORE
9-3	WORLD
9-4	LIFE
9-5	KIDS



## Adjusting audio

To adjust the volume, do any of the following:

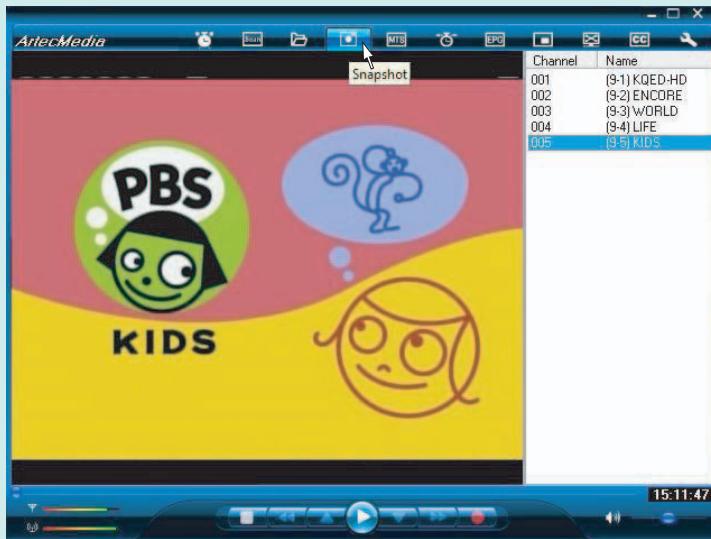
- Drag the volume slider in the Digital TV application window to increase or decrease the volume.
- Press in the Digital TV window to disable the audio.  
Press again to enable the audio.



# Capturing still images

To capture a still image of the current picture, do one of the following:

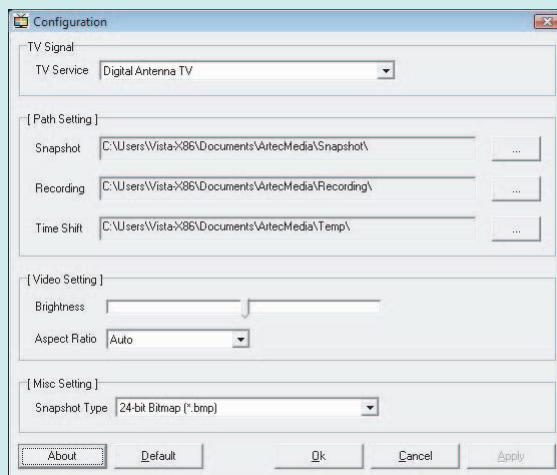
- Click the Snapshot button  in the Digital TV application program.



A still image is captured.

To specify where the still images are saved on your disk, do the following :

- Press the Configuration button  to open the settings dialog.
- Select the tap  in the Path Setting - Snapshot text box to specify where the captured images are saved on your hard disk.



# Recording TV programs

The Application provides the additional feature of recording and playing back your favorite TV programs. You can record a TV program manually at any time.

## Recording

To record a TV program, do the follow:



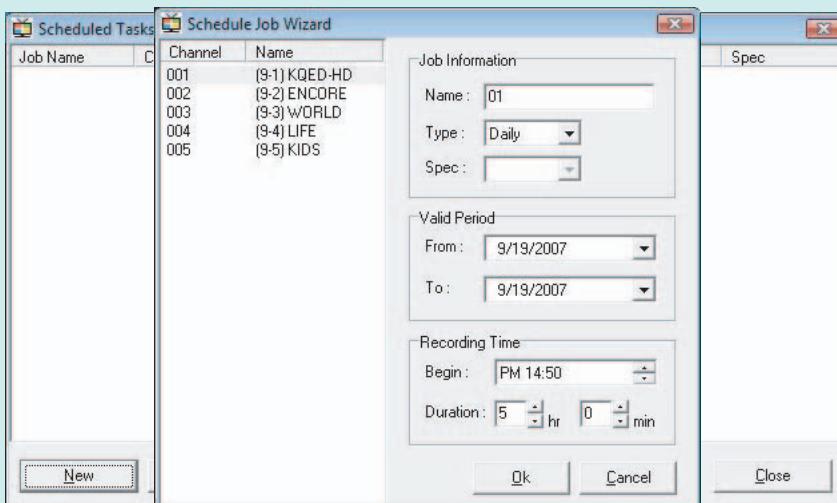
Record : Click to start recording the current TV program.

Stop or Record : Click to stop recording.

## Setting up schedule recording

To record a TV program at a scheduled time, do the follow:

1. Press the Schedule Recording button in the Digital TV program window.
2. Click New to set the Schedule job.
3. Setting the name, date, time and duration also select TV program to record.
4. Click OK to save your recording schedule. The recording schedule is displayed in the list under Scheduled Tasks.
5. Repeat the above procedure if you want to record multiple TV programs.



## Playing back recorded programs

To play back recorded files, do the follow:

1. Click  in the Digital TV program window to open recorded files.
2. Locate the required recorded file on your hard drive from the dialog box shown and click Open  to start playback of the file.
3. Stop playback by pressing the Stop button  in the Digital TV application window.
4. Pause playback by pressing the Pause button  in the Digital TV application window.
5. Press Fast Forward  to skip forward through a program at 2, 4, 8, or 16 X normal speed. Press Fast Reverse  to skip backwards through a program at 2, 4, 8, or 16 X normal speed.

## Time Shifting

The Time Shifting function is used for recording a short time segment of a TV program. This is useful when you are interrupted momentarily such as a telephone call. To perform a Time Shift record :

1. Click the Time Shifting button .
2. Slide the Progress Bar to view any part of the recording.



3. Click Stop  or Time Shifting  to stop recording.
4. Pause playback by pressing the Pause button  in the Digital TV application window.
5. Press Fast Forward  to skip forward through a program at 2, 4, 8, or 16 X normal speed. Press Fast Reverse  to skip backwards through a program at 2, 4, 8, or 16 X normal speed.

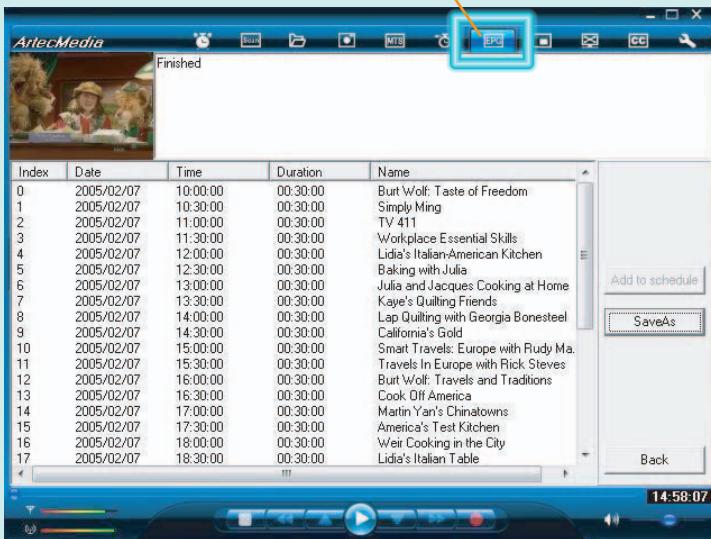


When you do a second recording using this method, it will record over the first recording.

## Using Electronic Program Guide (EPG)

Using the Electronic Program Guide (EPG) function:

1. Click the EPG tab to display the ProgList.



The left side of this screen displays the current TV channel.

The right side provides a description of the current channel.

The bottom section provides a list of programs with times they will be shown.

Click Back to close EPG.

## Setting up timer recording using EPG

To set up a scheduled recording using the Electronic Program Guide (EPG) function:

1. Select the Channel you want to record.
2. Click Add to schedule to set the Schedule Job.
3. Setting the name, Click OK to save your recording schedule.
4. Press the Schedule Recording button to edit the Scheduled Tasks.

# Picture in Picture (PIP) mode

Picture in Picture (PIP) mode enables you to view two channels at the one time.



PIP can only be used with channels that belong to the same TV station.

1. Press the PIP button on the Digital TV control panel to display a second channel in a smaller screen, within the main screen.

Other functions of PIP mode are as follows.

- Press the or buttons to change the main screen's channel.
- Double-click the PIP screen to swap the PIP screen's channel with that of the main screen.



PIP screen

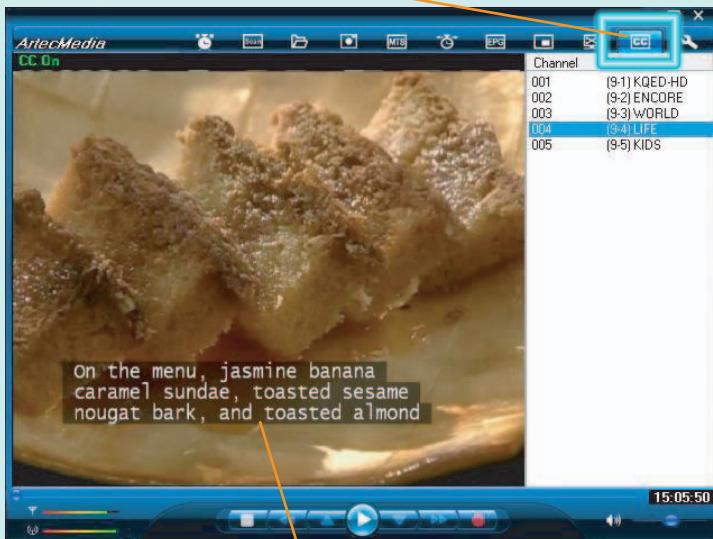


- PIP mode only works for different channels broadcast from the same TV station.
- If the video card does not support VMR 9 hardware acceleration, the PIP function will be disabled.

## Closed Caption

Using the Closed Caption function:

1. Click the Closed Caption tab.



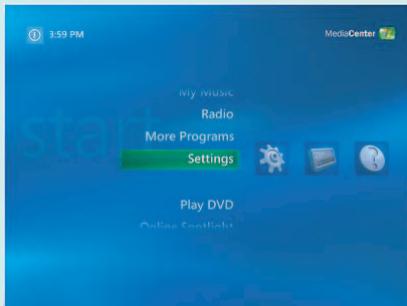
Displays the closed caption.

2. Click Closed Caption tab to close closed caption.

# Initial MCE Setup

Artec's USB digital TV receiver is compatible with Microsoft Media Center Edition. For a detailed installation process, please refer to MCE user guide for a step by step instruction.

## 1. Select "Settings".



## 2. Select "TV".



## 3. Select "Set up TV Signal".



## 4. Click Yes to into TV signal setup.



## 5. Click Next.



## 6. Select "Yes, use this region to configure TV services" than click Next.



# Initial MCE Setup

7. Select "I will manually configure my TV signal" than click Next.



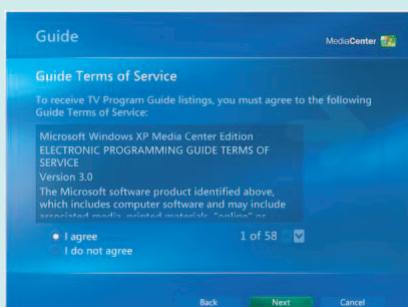
9. Select "Yes" than click Next.



11. Click Next.



13. Select "I agree" than click Next.



8. Select "Antenna" than click Next.



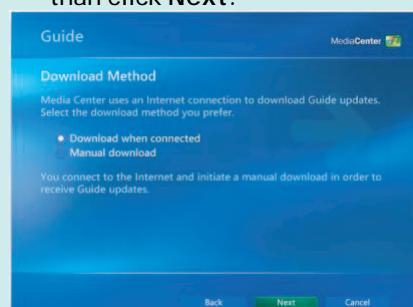
10. Select "Set Up Guide listings" than click Next.



12. Select "Yes" than click Next.

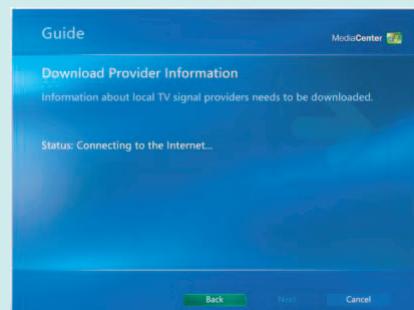
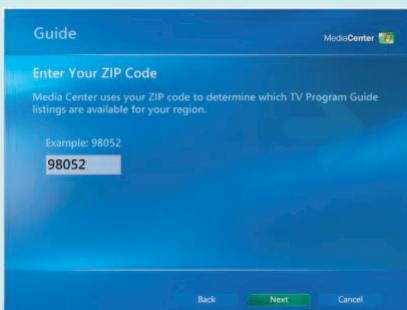


14. Select "Download when connected" than click Next.

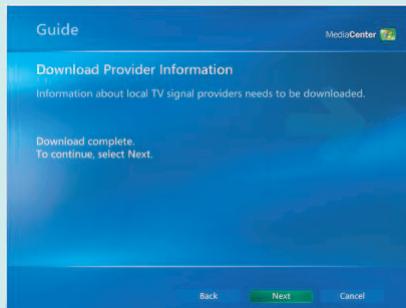


# Initial MCE Setup

15. Enter your "ZIP code" than click Next.



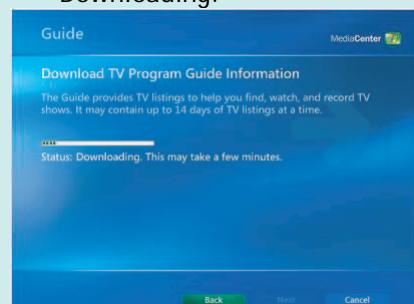
16. Click Next.



17. Click Next.



18. Wait for TV Program Guide Downloading.



19. Click Next.



20. Click Next.



# Initial MCE Setup

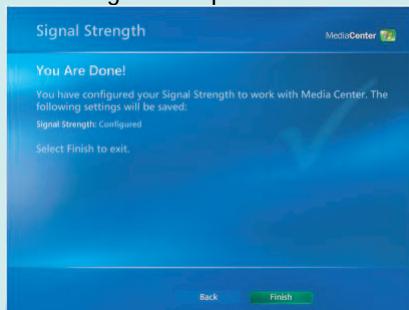
21. Click Next.



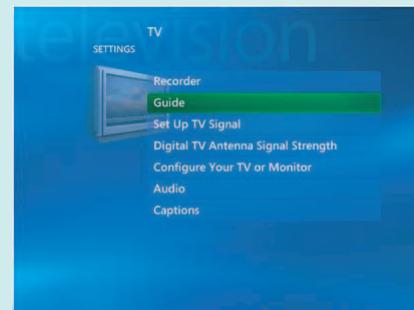
Click "Next" again.



22. Click Finish to complete the TV signal setup.



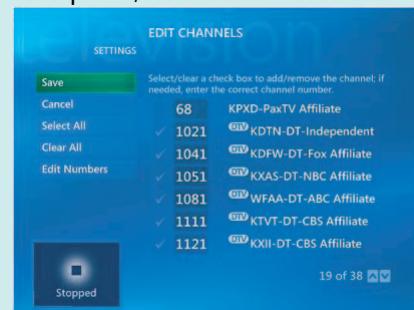
23. Select "Guide".



24. Select "Edit Channels".



25. Click "Clear All" first then enable (check) all Digital Channels (DTV) option, then Click "Save".



26. Select "Live TV".



27. Watch program.



# Specifications

Item	Features
Key Features	Supports US DTV Standard ATSC Protocol USB 2.0 High Speed Interface Designed for HDTV Free to Air Digital Terrestrial TV and Audio Program Playing Automatic Channel Scanning Real-Time Digital Video Recording Scheduled Recording Still Picture Capture (Snapshot) MTS (SAP, secondary audio program ) Time-Shifting EPG (Electronic Program Guide) PIP (Picture in Picture) Closed Caption Aspect Ratio 4:3 & 16:9 Scalable Screen for Multitask or Full Screen View "On-the-Fly Decode" software technique (Auto-update channel information) Mini Portable Device without any extra power required
Extended Features with Microsoft Windows XP Media Center Edition (MCE)	Live / Scheduled Personal Video Recording (PVR) Time Shifting for Missing Episode 14-Day TV-Guide (Internet Access Required for Update) Best Partner for Digital Home Electronic Entertainment
Basic System Requirements for Standard Digital TV	Desktop or Notebook Computer Microsoft Windows XP Service Pack 2 (SP2) / or Microsoft Windows XP Media Center Edition (MCE) / or Microsoft Windows Vista 32/64 bit P3 1.0 GHz CPU or above 256MB RAM or above VGA card with at least 64MB memory Microsoft Direct X 9.0b or above (Auto-updated from Driver CD) Sound card or on-board sound chip Digital Terrestrial TV Antenna (Included in Package) One USB 2.0 port
Hardware requirements for PIP function	P4 2.0 GHz CPU or above 512M RAM or above VGA card with at least 256MB memory and support VMR9

# Specifications

Item	Features
Special System Requirements for HDTV function	P4 2.8 GHz CPU or above
	512M RAM or above
	VGA card with at least 256MB memory and support VMR9
Tuner	Input Terminal: 75 Ohm Male F Connector
	Receiving Frequency: 42 ~ 862 MHz
Digital Cable (clear QAM)	Video: 64 QAM
	Video: 256 QAM
8 VSB De-Modulator	Fully ATSC Compliant
	ATSC A/53 compliant 8/16VSB and MMDS 2/4/8VSB receiver
	Integrated 10-bit A/D converter
	All digital demodulation
Forward Error Correction (FEC)	Fully ATSC Compliant
	Bandwidth : 6 MHz
USB Interface	Universal Serial Bus 2.0 Standard
	Digital Transport Stream Support
	A Type USB Male Connector
De-Multiplexing	Engine: Hardware
	Stream capture: PES & TS
DTV A/V Format	Video format: MPEG-II Main Profile & Main Level
	Video Resolution: Standard SDTV and HDTV
	Audio format: MPEG-II Audio layer I & II, Dolby Digital AC-3
Package include	Artec T18AR Mini USB 2.0 ATSC Digital TV Tuner Dongle
	Portable Digital Terrestrial TV Antenna & Connector
	Adapter for Roof Top TV Antenna
	USB Extension Cable & Remote Control
	Driver & Utility CD Disk
	User Manual & Quick Installation Guide
Software and Hardware capabilities	Microsoft WHQL Certified Driver
	Software upgradeable
	Channel Data Base updateable
	Automatic channel parsing
Power Consumption	Less Than ( < ) 2.3W
Operation Temperature	Room Temperature
Safety Regulation	FCC Approved
Dimensions (W x D x H)	71.2(W) x 28.1 (D) x 13.3 (H) mm
Weight	23g

# Frequently asked questions

This section addresses some of the common questions or problems encountered while using the TV Receiver.

## After installing Digital TV, why do I still find the Found New Hardware Wizard pop up on my computer screen when I connect my TV Receiver?

For Windows XP, a USB as well as ATSC adapter driver is required. If you change USB ports, you need to install the driver again. Refer to [Installing Application and driver](#) on page8 for more information.

## Where can I find the drivers for my portable digital TV Receiver when Windows can not find them automatically?

Make sure that the driver CD is in your CD-ROM drive. The driver for Windows XP is in the D:\Drivers\Win2K&XP folder (assuming that D:\ is your CD-ROM drive). Make sure that you use the correct driver according to the operating system running on your computer.

## Why do I still have problems detecting hardware?

This happens if the drivers were not installed correctly, or the software installation process terminated early or abnormally. Check the list of hardware devices using Device Manager. To access Device Manager, click the System icon in the control panel and choose the Hardware tab. Click the Device Manager button to view the Device Manager screen. If a device named Unknown Device is present under Sound, video and game controllers, but has a yellow ! mark next to it, as shown, you will need to reinstall the driver. Also, if a USB device is displayed with an error icon under Other devices, you will need to reinstall the driver.

With the USB connection still plugged in, double click the device name and when a dialog box appears, click Reinstall and follow the original installation procedure.

## Why can I not find any channels during auto scanning?

- Check that the antenna is connected to the TV Receiver properly with the cable.
- Make sure that ATSC signal is available where you are geographically located by checking with <http://www.antennaweb.org> on the internet.

## Why does my TV Receiver fail to play video?

- Make sure that a sound card has been installed on your computer and is working properly. Even if you do not want to listen to audio while watching TV, the sound card should be installed for correct operation of your TV Receiver.
- Digital TV signal strength is one of main factors in signal quality, to make sure that ATSC signal is available where you are geographically located by checking with <http://www.antennaweb.org> on the internet.

## When showing TV programs, the picture playback is not smooth. Why does this happen?

- Digital TV uses a software MPEG-II decoder for decoding the video signals. Hence, the video quality is dependent on CPU speed. Make sure that your computer has a CPU such as a Pentium III, 1 GHz or higher (or AMD equivalent). See [Package contents](#) on page4 for more information.
- In order to have your CPU operating with maximum efficiency, we recommend that you close all other applications on your computer when watching digital TV programs.

# Frequently asked questions

- Make sure that the Power Saving function in your portable computer is disabled, as this could slow down the CPU performance and affect the operation of Digital TV.

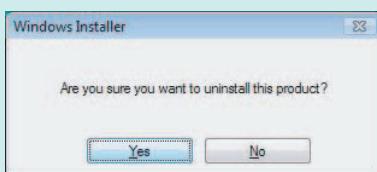


When viewing digital TV programs on your portable computer, the TV Receiver is running the computer's CPU at maximum efficiency and full speed. This means that the portable computer's battery may be discharged faster than when in normal use.

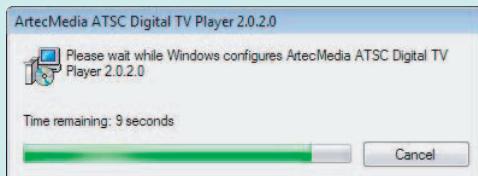


## To remove Digital TV software application.

- Remove Digital TV by clicking Start | Programs | Ultima | Uninstall ArtecMedia Digital TV Player from the Windows Start Menu.
  1. Click Yes to begin remove.



2. Remove install...



## Clear Qam.

- Encrypted channels are not watchable by HDTV USB tuner dongle)  
For more information on "unencrypted/unscrambled QAM Digital Cable channels", please refer: [http://en.wikipedia.org/wiki/QAM\\_tuner](http://en.wikipedia.org/wiki/QAM_tuner)