



TV FM Card

PCI-based
TV FM Card

USER'S MANUAL
Hardware & Video Drivers

NOTICES

No part of this manual, including the products and software described in it, may be reproduced, transmitted, transcribed, stored in a retrieval system, or translated into any language in any form or by any means, except documentation kept by the purchaser for backup purposes, without the express written permission of ASUSTeK COMPUTER INC. ("ASUS").

ASUS PROVIDES THIS MANUAL "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTIES OR CONDITIONS OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. IN NO EVENT SHALL ASUS, ITS DIRECTORS, OFFICERS, EMPLOYEES OR AGENTS BE LIABLE FOR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES (INCLUDING DAMAGES FOR LOSS OF PROFITS, LOSS OF BUSINESS, LOSS OF USE OR DATA, INTERRUPTION OF BUSINESS AND THE LIKE), EVEN IF ASUS HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES ARISING FROM ANY DEFECT OR ERROR IN THIS MANUAL OR PRODUCT.

Product warranty or service will not be extended if: (1) the product is repaired, modified or altered, unless such repair, modification or alteration is authorized in writing by ASUS; or (2) the serial number of the product is defaced or missing.

Products and corporate names appearing in this manual may or may not be registered trademarks or copyrights of their respective companies, and are used only for identification or explanation and to the owners' benefit, without intent to infringe.

- Windows, MS-DOS, and DirectX are registered trademarks of Microsoft Corporation.
- Adobe and Acrobat are registered trademarks of Adobe Systems Incorporated.

The product name and revision number are both printed on the product itself. Manual revisions are released for each product design represented by the digit before and after the period of the manual revision number. Manual updates are represented by the third digit in the manual revision number.

For previous or updated manuals, BIOS, drivers, or product release information, contact ASUS at <http://www.asus.com.tw> or through any of the means indicated on the following page.

SPECIFICATIONS AND INFORMATION CONTAINED IN THIS MANUAL ARE FURNISHED FOR INFORMATIONAL USE ONLY, AND ARE SUBJECT TO CHANGE AT ANY TIME WITHOUT NOTICE, AND SHOULD NOT BE CONSTRUED AS A COMMITMENT BY ASUS. ASUS ASSUMES NO RESPONSIBILITY OR LIABILITY FOR ANY ERRORS OR INACCURACIES THAT MAY APPEAR IN THIS MANUAL, INCLUDING THE PRODUCTS AND SOFTWARE DESCRIBED IN IT.

Copyright © 2003 ASUSTeK COMPUTER INC. All Rights Reserved.

Product Name:	ASUS TV FM Card
Manual Revision:	Revised Edition V3 E1476
Release Date:	November 2003

ASUS CONTACT INFORMATION

ASUSTeK COMPUTER INC. (Asia-Pacific)

Address 150 Li-Te Road, Peitou, Taipei, Taiwan 112
Telephone +886-2-2894-3447
Web site www.asus.com.tw

Technical Support

Telephone(MB/Component) +886-2-2890-7121 (English)
(Notebook) +886-2-2890-7122 (English)
(Server/PC) +886-2-2890-7123 (English)
(Networking) +886-2-2890-7902 (English)
Support fax +886-2-2890-7698

ASUS COMPUTER INTERNATIONAL (America)

Address 44370 Nobel Drive, Fremont, CA 94538, USA
Fax +1-510-608-4555
E-mail tmd1@asus.com
Web site usa.asus.com

Technical Support

Telephone (General) +1-502-995-0883
(Notebook) +1-510-739-3777
Support fax +1-502-933-8713
Support e-mail tsd@asus.com

ASUS COMPUTER GmbH (Germany and Austria)

Address Harkort Str. 25, D-40880 Ratingen, Germany
Telephone +49-2102-95990
Fax +49-2102-959911
Online contact www.asuscom.de/sales

Technical Support

Telephone +49-2102-95990
Fax +49-2102-959911
Online support www.asuscom.de/support
Web site www.asuscom.de/news

ASUS COMPUTER (Middle East and North Africa)

Address P.O. Box 64133, Dubai, U.A.E.
Telephone +9714-283-1774
Fax +9714-283-1775
Web site www.ASUSarabia.com

CONTENTS

I. Introduction	7
Highlights	7
Getting started	8
2. Hardware Setup	9
Operating System Requirements	9
ASUS TV FM Card Layout	10
Installation Procedures	11
Connecting the Audio	12
ASUS TV FM Card Connectors	12
Using Your TV FM Card	13
Using the Remote Control	15
Installing Batteries	15
ASUS Remote Controller Layout	16
ASUS Remote Controller Functions	17
3. Software Setup	21
Device Driver Installation	21
Windows 98/ME	21
Method 1: ASUS Quick Setup Program	21
Method 2: Plug and Play	22
Windows 2000/XP	24
Method 1: ASUS Quick Setup Program	24
Method 2: Plug and Play	25
Install DirectX	27
Uninstall the TV FM Card Drivers	28
Windows 98 / ME	28
Method : Using the Control Panel	28
Windows 2000 / XP	29
Method : Using Control Panel	29
Install ASUS Home Theater	30
Install VideoSecurity	31
Install PowerDirector Pro	32
4. Software Reference	33
ASUS Home Theater	33
PowerDirector Pro	36
ASUS VideoSecurity	38
5. Resolution Table	43
6. Troubleshooting	45

Notices

Federal Communications Commission Statement

This device complies with FCC Rules Part 15. Operation is subject to the following two conditions:

- This device may not cause harmful interference, and
- This device must accept any interference received, including interference that may cause undesired operation.

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 equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with manufacturer's instructions, 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 to 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.

WARNING! The use of shielded cables for connection of the monitor to the graphics card is required to assure compliance with FCC regulations. Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

Canadian Department of Communications Statement

This digital apparatus does not exceed the Class B limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications.

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

Macrovision Corporation Product Notice

This product incorporates copyright protection technology that is protected by method claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing uses only *unless otherwise authorized by Macrovision Corporation*. Reverse engineering or disassembly is prohibited.

I. Introduction

Thank you for purchasing ASUS TV FM card. The TV FM card that provides a total solution suitable for watching TV programs, making scheduled recordings, capturing video from TVs or camcorders, and making movies on your PC. The ASUS TV FM CARD introduces a new dimension in video quality by incorporating the newest video/audio decoder for enhanced performance, functionality and enjoyment. Combined with the ASUS remote control and useful software bundle, the ASUS TV FM CARD lets your PC be a smart multimedia center!

Highlights

- **Use the advanced video/audio decoder - Philips with 9-bit video ADC for excellent video quality**
- **Philips TV FM module built-in**
- **Enjoy the ultimate entertainment package**
 - ~ Allows you to easily watch TV, tune to FM radio, listen to MP3s, view DVDs, pictures and video on your PC.
- **Provides you with complete TV experience on your PCs.**
 - ~ “Time-Shifting Playback” for temporary leave, “Instant TV Replay”, “Automatic Channel Scanning”, “Pre-schedule Recording (MPEG1/2).
- **Support STEREO and Dual modes while watching TV**
- **Come with a remotes control for the ultimate in convenience**
- **Video-in connector for external video stream**
- **Let you capture/edit/author/burn your favorite videos and images in one software package**
- **Build your own video security and monitoring system**
- **WDM video capture driver for Windows 98SE/ME/2000/XP**
- **Microsoft® DirectShow™ compliant**
- **PCI revision 2.2 compliant**

I. Introduction

Getting Started

The following steps will help you get your ASUS TV FM Card connected and working quickly and assume that your computer is shut down and turned off.

1 **Unpack your ASUS TV FM Card package.**

Shown here are the TV FM card and accessories.

ASUS TV FM card

- Cables

- (1) Multi video-in and audio-in cable for connection to video camera or camcorder

- (2) Audio cable for connection to sound card

- Software

- (1) ASUS installation driver CD

- (2) ASUS Home Theater software CD

- (3) CyberLink PowerDirector software CD

- Remote control with transmitter, receiver and batteries

- ASUS TV FM Card user's manual

2 **Connect cables and other accessories.**

- Details for connecting a cable TV system and home antenna to your FM starts on page 10.

- Details for connecting other devices to your FM card are on page 12.

3 **Install batteries in remote control.**

- Details are on page 15.

4 **Start your computer.**

5 **Install the Device drivers.**

- Details for installing the software to run your FM card are on page 21.

6 **Install the DirectX.**

- Details for installing the software to run your FM card are on page 27.

7 **Installing software.**

- Details for installing the software to run your FM card are on page 30.

8 **Using software.**

- Details for using the software to run your FM card are on page 33.

2. Hardware Setup

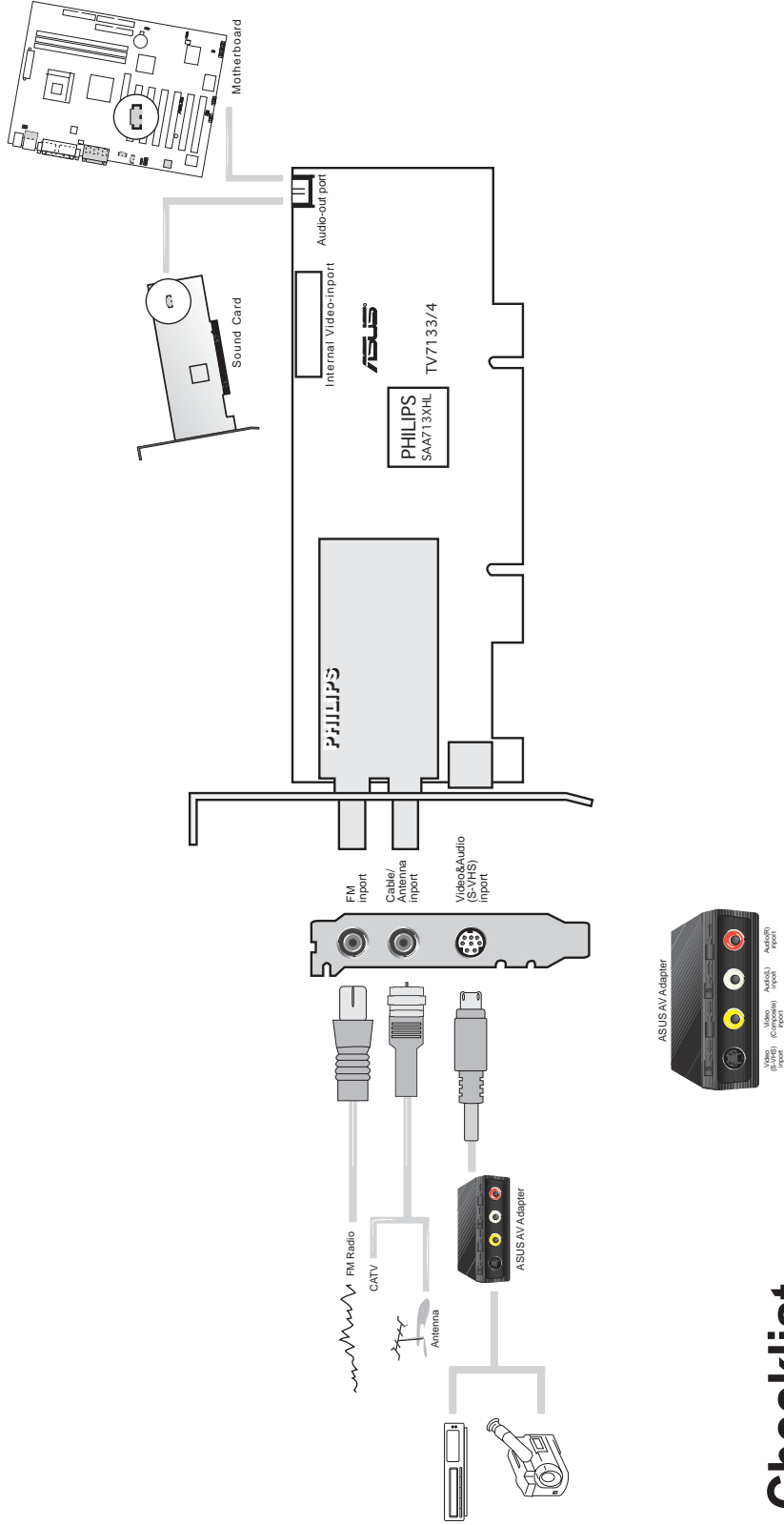
Operating System Requirements

- **Intel® or AMD® chipset-based mainboard recommended**
- **One available PCI compliant slot**
- **Minimum 64 MB system memory**
- **VGA card with 16MB memory above**
- **CD-ROM drive (for driver installation)**
- **Sound card needed**
- **Microsoft Windows 98SE™/ME™/2000™/XP™**
- **DirectX® 8 or above needed**

NOTES

- **To avoid damage to your FM card**, unplug your computer's power supply before inserting your FM card into the PCI slot.
- Videoconferencing requires the addition of a video camera or video camcorder.

ASUS TV FM Card



Item Checklist

- ASUS TV FM Card
- User's Manual
- ASUS Driver and Utility CD

Notes

- Use the same TV standard for all devices.
- Antenna and CATV cannot be connected at the same time.
- Drawings are for reference only, actual card layout may vary.

2. Hardware Setup

NOTE: This TV FM card can only be installed in motherboards with a PCI slot.

WARNING! Computer boards and components contain very delicate Integrated Circuit (IC) chips. To protect the computer board and other components against damage from static electricity, you must follow some precautions.

1. Make sure that you unplug your power supply when adding or removing expansion cards or other system components. Failure to do so may cause severe damage to both your motherboard and expansion cards.
2. Keep all components such as the host adapter in its antistatic bag until you are ready to install it.
3. Use a grounded wrist strap before handling computer components. If you do not have one, touch both of your hands to a safely grounded object or to a metal object, such as the power supply case. Hold components by the edges and try not to touch the IC chips, leads, or circuitry.
4. Place components on a grounded antistatic pad or on the bag that came with the component whenever the components are separated from the system.

Installation Procedures

New FM Card

1. Unplug all electrical cords on your computer.
2. Remove the system unit cover.
3. Locate the PCI bus expansion slot. Make sure this slot is unobstructed.
4. Remove the corresponding expansion slot cover from the computer chassis.
5. Ground yourself to an antistatic mat or other grounded source .
6. Pick up the board (still in its sleeve) by grasping the edge bracket with one hand and then remove the plastic sleeve.
7. Position the card directly over the PCI slot and insert one end of the board in the slot first. Firmly but gently press the bus connector on the bottom of the card down into the slot. Be sure the metal contacts on the bottom of the host adapter are securely seated in the slot.
8. Anchor the board's mounting bracket to the computer chassis using the screw from the slot cover that you set aside previously.
9. Replace the cover on the system unit.
10. Connect cables and devices, if available.

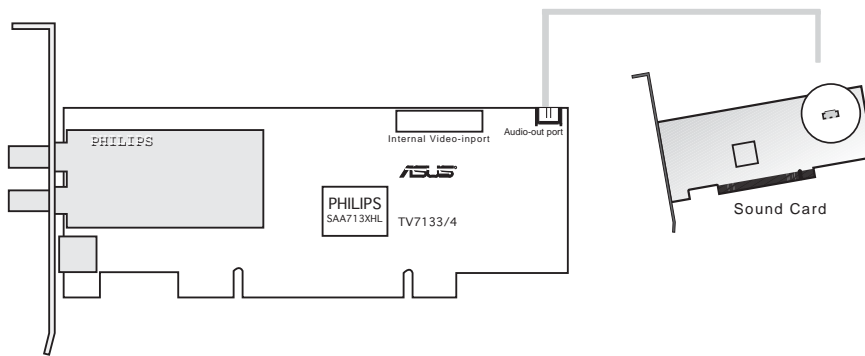
2. Hardware Setup

Connecting the Audio

You may connect the audio portion either to a sound card or directly to the audio connector in your motherboard. Follow the procedure below to connect the audio.

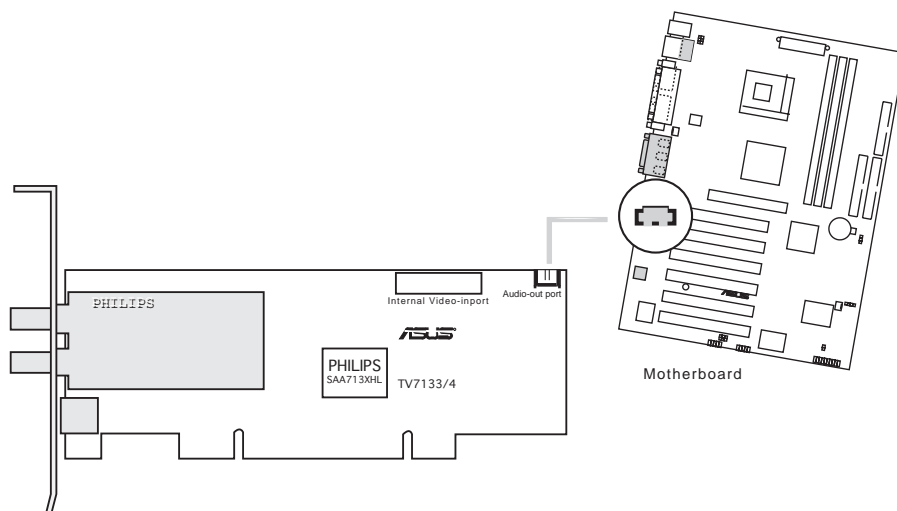
Sound Card

1. Locate the JP1 connector on the ASUS TV FM Card.
2. Locate the Line-In (JP Audio-input) connector on your sound card. If necessary, refer to the documentation supplied with your sound card.
3. Attach one end of the sound cable to the JP1 connector of the ASUS TV FM Card and the other end to the Line-In (JP Audio-input) on your sound card.



Motherboard

1. Locate the JP1 connector on the ASUS TV FM Card.
2. Locate the Line-In (JP Audio-input) connector on your motherboard. If necessary, refer to the documentation supplied with your motherboard.
3. Attach one end of the sound cable to the JP1 connector of the ASUS TV FM Card and the other end to the Line-In (JP Audio-input) on your motherboard.



2. Hardware Setup

Using Your TV FM Card

There are three general steps in using or setting-up your TV FM Card.

- Step 1** Disconnect the CATV system or antenna from your TV system.
- Step 2** Reconnect the CATV system or antenna to your TV FM Card.
- Step 3** Connect the included and other accessories to your TV FM Card.

CATV/Home Antenna Connections

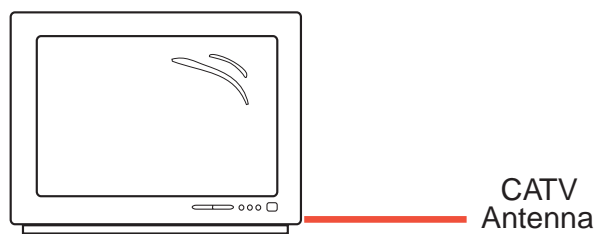
There are various types of cable TV (CATV) and antenna connections. Each type requires a different method of connection.

NOTE Consult your dealer for the type of adaptor, splitter, A/B switch or combiner that may be required when setting up your TV FM Card.

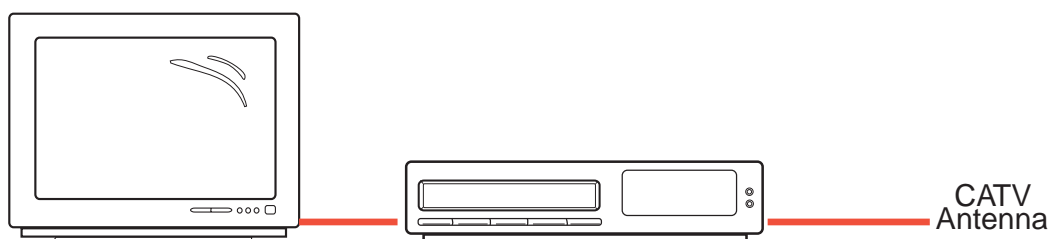
Your TV FM Card is capable of receiving up to 100 channels. If you do not have a CATV system, you may use an indoor or outdoor antenna that carries only VHF (channels 2–13), only UHF (channels 14–69), or VHF and UHF channels to connect to your TV FM Card.

Your CATV system or antenna may be connected in either of the following two ways: direct to the TV or through a VCR system.

Connection Through a TV System



Connection Through a VCR System

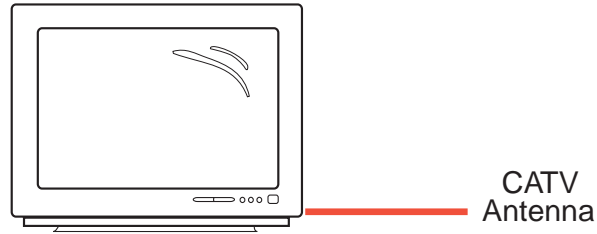


To start using your TV FM Card, follow the steps and sketch on the following pages to connect a CATV system or home antenna to your TV FM Card.

2. Hardware Setup

Step 1

Disconnect the CATV system or antenna from your TV system.



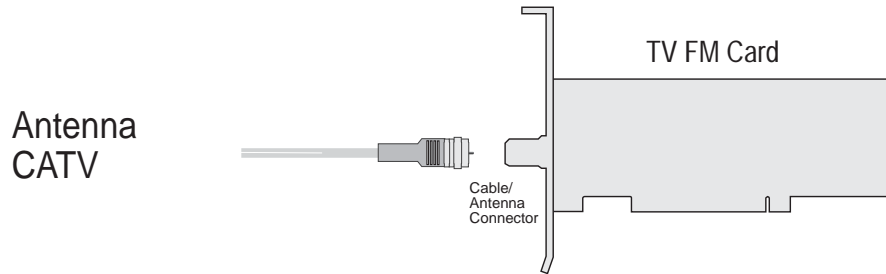
Disconnection from a TV System



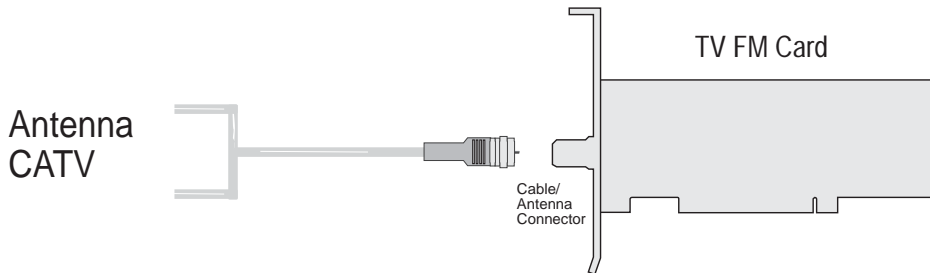
Disconnection from a VCR System

Step 2

Reconnect the CATV system or antenna to your TV FM Card.



Direct Connection

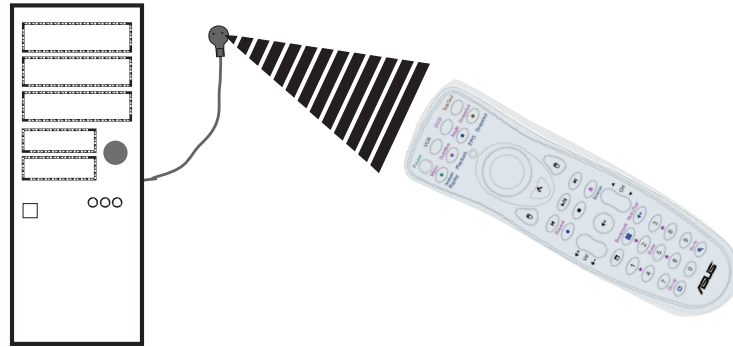


Connection Through either an Adaptor, Splitter, A/B Switch or Combiner

2. Hardware Setup

Using the Remote Control

The Remote Control allows you to operate the VCR/ DVD at a distance. It has all the major controls necessary for operating your FM card, such as turning your TV on/off, viewing the TV, and changing the channels and volume. Aim the front of the Remote Control at the Remote Control Receiver and press the control buttons as you would on the infrared rays receiver.



The remote control receiver may be placed anywhere, as long as it is not blocked

Installing Batteries

Open the back cover of Remote Controller and put in two pieces AAA batteries (alkaline battery recommended).

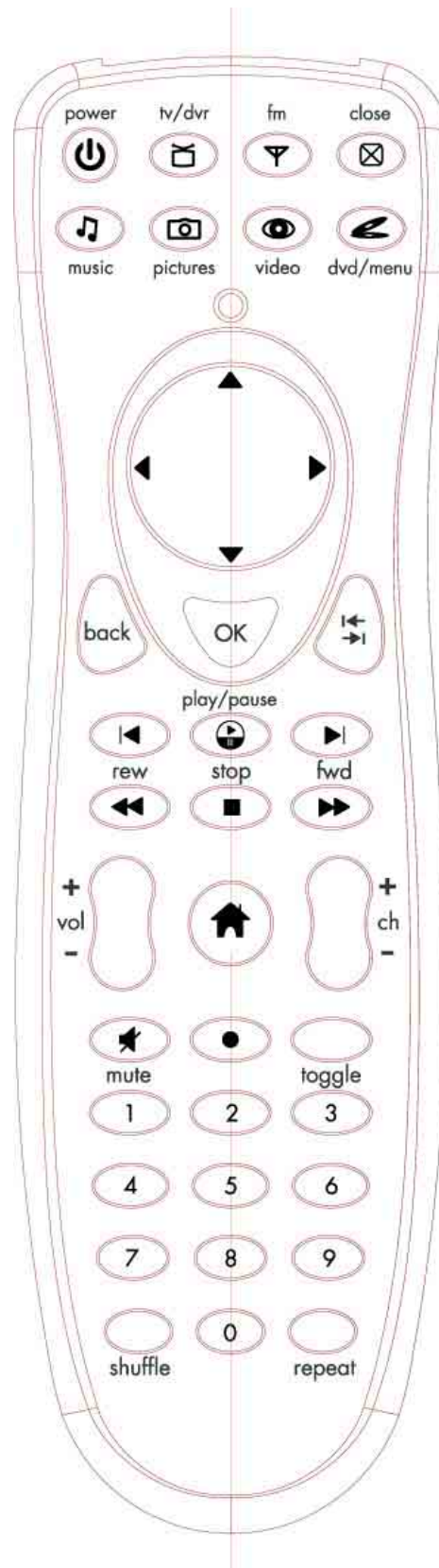
If the Remote Control does not operate or fails to function normally, replace the batteries. The Remote Control operates on two AAA (UM-4) 1.5 volt batteries, available at most stores, such as electronics and camera stores.

Installing receiver of ASUS remote control kit

Plugging receiver (with USB port on it) into the USB port of your computer and have the receiver grip on the top of computer panel or your favorite location for easy operation.

2. Hardware Setup








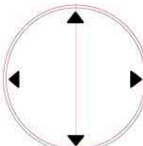


ASUS Remote Controller










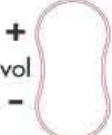

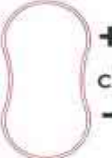
ASUS Remote Controller Layout

2. Hardware Setup







Remote Control Functions






Button	Mode 1	Mode 2	Mode 3	Mode 4	Mode 5	Mode 6
tv/dvr 	TV Mode	-	-	-	-	-
fm 	-	FM Radio	-	-	-	-
close 	Close App	Close App	Close App	Close App	Close App	Close App
 music	-	-	Music Mode	-	-	-
 pictures	-	-	-	Pictures Mode	-	-
 video	-	-	-	-	Video Mode	-
 dvd/menu	-	-	-	-	-	DVD Mode
	Mouse/ Arrow Keys	Mouse/ Arrow Keys	Mouse/ Arrow Keys	Mouse/ Arrow Keys	Mouse/ Arrow Keys	Mouse/ Arrow Keys
 back	LMouse/ Back	LMouse/ Back	LMouse/ Back	LMouse/ Back	LMouse/ Back	LMouse/ Back
 OK	OK	OK	OK	OK	OK	OK

2. Hardware Setup

Button	Mode 1	Mode 2	Mode 3	Mode 4	Mode 5	Mode 6
	-	-	-	-	-	-
	Previous Chapter	-	Previous Chapter	Previous Chapter	Previous Chapter	Previous Chapter
play/pause 	Play/ Pause	-	Play/ Pause	Play/ Pause	Play/ Pause	Play/ Pause
	Next Chapter	-	Next Chapter	Next Chapter	Next Chapter	Next Chapter
rew 	Rewind	-	-	-	Rewind	Rewind
stop 	Stop	Stop	Stop	Stop	Stop	Stop
fwd 	Fast Forward	-	-	-	Fast Forward	Fast Forward
+ vol - 	Volume Up/Down	Volume Up/Down	Volume Up/Down	Volume Up/Down	Volume Up/Down	Volume Up/Down
	Home/ Launch	Home/ Launch	Home/ Launch	Home/ Launch	Home/ Launch	Home/ Launch
	Channel Up/Down	Channel Up/Down	-	-	-	-

2. Hardware Setup

Button	Mode 1	Mode 2	Mode 3	Mode 4	Mode 5	Mode 6
 mute	Mute	Mute	Mute	Mute	Mute	Mute
	Record	Record	-	-	-	-
 toggle	Remote Toggle	Remote Toggle	Remote Toggle	Remote Toggle	Remote Toggle	Remote Toggle
	1	-	-	-	-	-
	2	-	-	-	-	-
	3	-	-	-	-	-
	4	-	-	-	-	-
	5	-	-	-	-	-
	6	-	-	-	-	-
	7	-	-	-	-	-

Button	Mode 1	Mode 2	Mode 3	Mode 4	Mode 5	Mode 6
	8	-	-	-	-	-
	9	-	-	-	-	-
	-	-	Shuffle	Shuffle	-	-
	0	-	-	-	-	-
	-	-	Repeat	-	Repeat	Repeat

Features:

1. Innovation design of ASUS Remote Controller for controlling ASUS Home Theater software with desktop PC.
2. Mouse mode can be used as mouse function while you aren't in front of your computer.
3. Receiver with USB Port, it's easy to connect with your computer.

Specifications:

- Operation Voltage : 3V ; Battery : AAA Battery x 2 (alkaline battery recommended)
- Receiver Interface : USB Port

3. Software Setup

Device Driver Installation

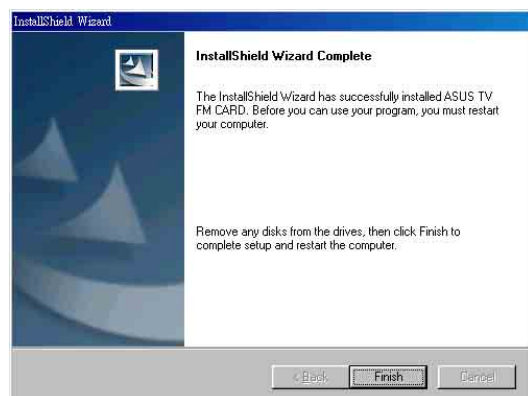
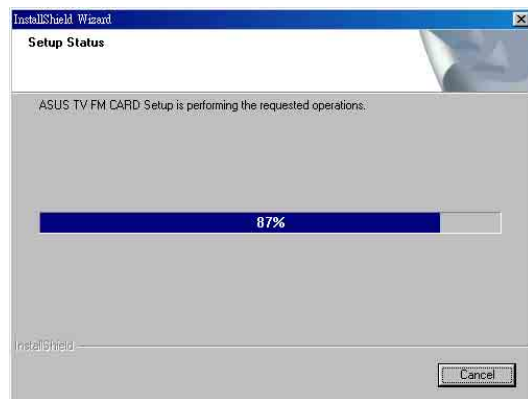
You can use the below method to install the device drivers for your FM card, depending on your operating system.

NOTE: The screens displayed in this manual may not exactly reflect the screen contents displayed on your screen. The contents of the support CD are subject to change at any time without notice.

Windows 98SE / ME

Method 1: ASUS Quick Setup Program

1. Start Windows.
2. Insert the CD installation disc into your CD-ROM drive.
3. The Install Shell appears. Click **Install Drivers** on the dialog box.
4. Follow the onscreen instructions to complete the setup.
5. When Setup has finished installing all the necessary files on your computer, it will prompt you to restart your computer. Click **Finish** to restart your computer and complete Setup.



3. Software Setup

Method 2: Plug and Play

1. Start Windows and insert support CD into your CD-ROM drive.
2. Windows detects the ASUS TV FM card and displays the **New Hardware Found** window. Wait for Windows to search for the required driver.



3. Select the option **Specify the location of the driver (Advanced)**. Click **Next**.



4. Select the option **Search for the best driver for you device (Recommended)** and check the option **Removable Media (Floppy, CD-ROM...)**. Click **Next**.



5. When the wizard finds the driver location, click **Next** to install the driver.



3. Software Setup

6. Click **Finish** when Windows has finished installing the driver.



7. The procedure to install this driver is the same as Steps 2 to 6.



8. The procedure to install this driver is the same as Steps 2 to 6.



3. S/W Setup

3. Software Setup

Windows 2000 / XP

Method 1: ASUS Quick Setup Program

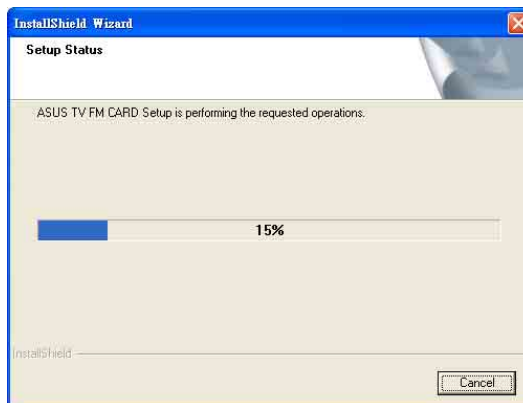
1. Start Windows.
2. Windows detects the ASUS TV FM card and displays the **Found New Hardware Wizard** window. Click **Cancel**.



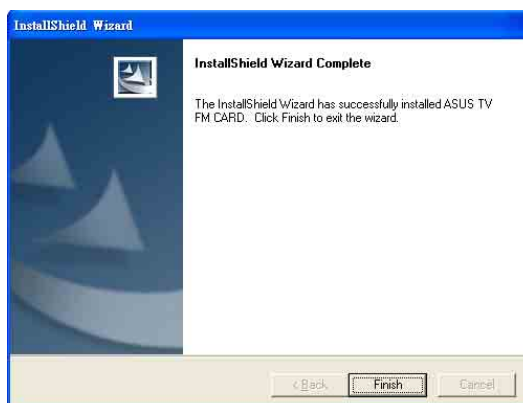
3. Insert support CD into your CD-ROM drive. The Install Shell appears. Click **FM Driver** on the dialog box.



4. Follow succeeding onscreen instructions.



5. Setup has finished installing all the necessary files on your computer, Click **Finished** to complete Setup.



3. Software Setup

Windows 2000 / XP

Method2 : Plug and Play

1. Start Windows and insert support CD into your CD-ROM drive.
2. Windows detects the ASUS TV FM card and displays the **New Hardware Found** window.
3. Click **Next** to allow Windows to search for the required driver.



4. Select the option **Search for a suitable driver for my device (Recommended)** and Click **Next**.



5. Check the option **CD-ROM drives** and Click **Next**.



3. Software Setup

6. When the wizard finds the driver location, click **Next** to install the driver.



7. Click **Finish** when Windows has finished installing the driver.



8. The procedure to install this driver is the same as Steps 2 to 7.



9. The procedure to install this driver is the same as Steps 2 to 7.



3. Software Setup

Install DirectX

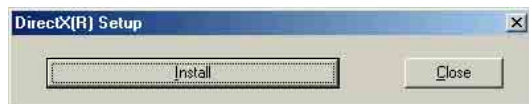
Microsoft DirectX allows 3D hardware acceleration support in Windows 98, Windows 2000, and Windows XP. For Software MPEG support in Windows 98, you must first install Microsoft DirectX, and then an MPEG-compliant video player.

1. Insert the CD installation disc into your CD-ROM drive or double click the CD drive icon in My Computer to bring up the autorun screen or run **Setup32.exe** in the directory **\AutoRun** of your CD-ROM drive.

Click **DirectX Runtime Libraries**.



2. The **DirectX(R) Setup** box appears. Click **Install** button to install driver.



3. The installation program will automatically install the DirectX 8.1 runtime libraries into your system.



4. Setup will prompt when it has finished copying all the files to your computer. Click **OK** to finish the installation.



WARNING! Some games written for older DirectX versions may not work properly under DirectX8. Make sure that your applications or games support DirectX8 before installing the DirectX8 runtime libraries. DirectX8 currently cannot be uninstalled by regular means, such as outlined in **3. Software Setup | Uninstall Display Driver**.

3. Software Setup

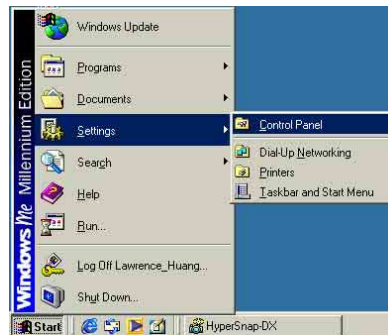
Uninstall the TV FM Card Drivers

If you want to update your TV FM Card drivers or if you no longer need the TV FM Card drivers for your card, you can use following procedures to completely uninstall the drivers from your system to save disk space.

Windows 98SE / ME

Method: Using the Control Panel

1. Click **Start**, and then point to **Settings**.
2. Click **Control Panel**.



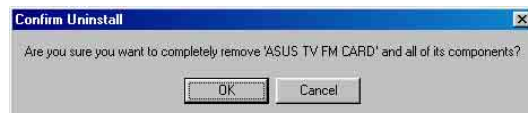
3. Double-click the **Add/Remove Programs** icon.



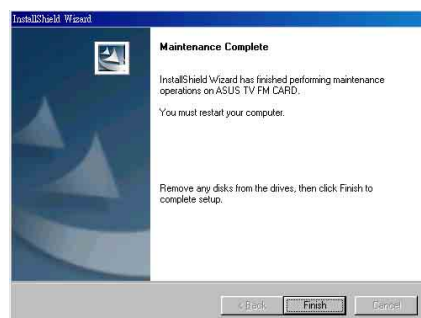
4. Click the **Install/Uninstall** tab.
5. Click **ASUS TV FM Card Drivers** from the list then click **Add/Remove**.
6. Click **OK** to uninstall drivers.



7. The system prompts a confirmation dialogue box. Click **OK** to completely remove all TV FM card components, otherwise, click **Cancel**.



8. Click **Finish** to complete setup and restart computer.



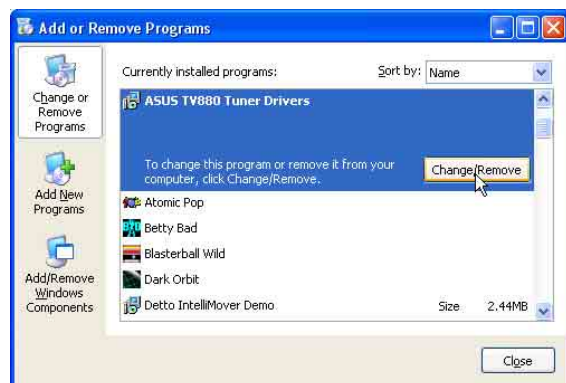
Windows 2000 / XP

Method : Using Control Panel

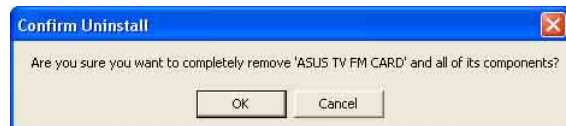
1. Click **Start**, and then point to **Settings**.
2. Click **Control Panel**.
3. Double-click the **Add/Remove Programs** icon.



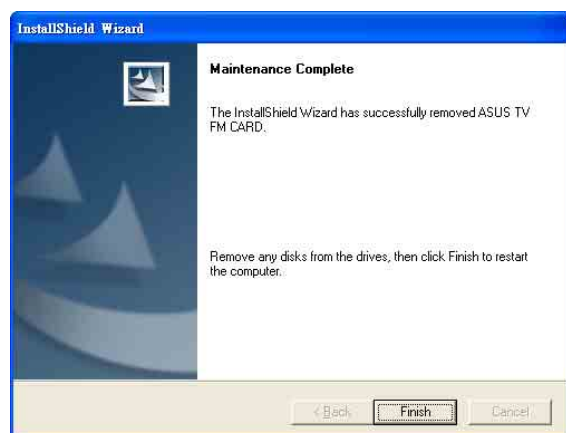
4. Click the **Change/Remove Programs** icon.
5. Click **ASUS TV FM Card Drivers** from the list.
6. Click **Change/Remove**.



7. The system prompts a confirmation dialog box. Click **OK** to completely remove all TV FM card components, otherwise, click **Cancel**.



8. Click **Finish** to complete setup and restart computer.



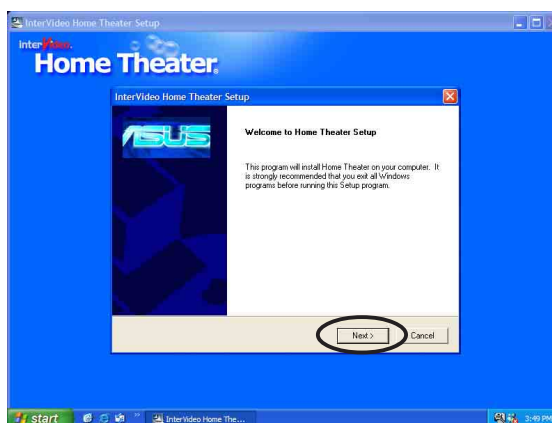
4. S/W Setup

3. Software Setup

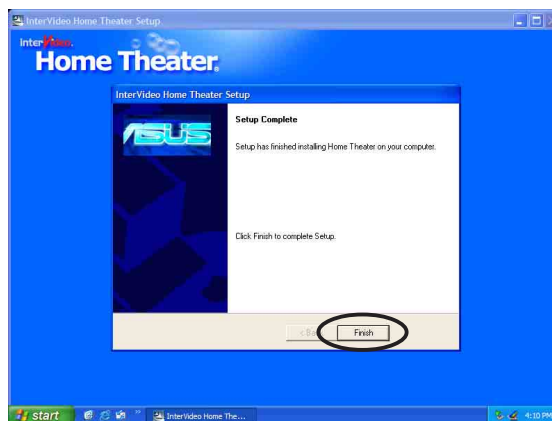
Installing ASUS Home Theater

The ASUS Home Theater enables you to watch TV, listen to MP3s, view DVDs or video clips and browse pictures on your PC.

1. Insert the ASUS Home Theater support CD into your CD-ROM drive.
2. Double click the CD drive icon in **My Computer** to bring up the autorun screen or run **Setup.exe** in the root directory of your CD-ROM drive.
3. From the welcome screen, click Next and follow succeeding instructions to copy the necessary files to your computer.



4. Click on **Finish** to complete setup.

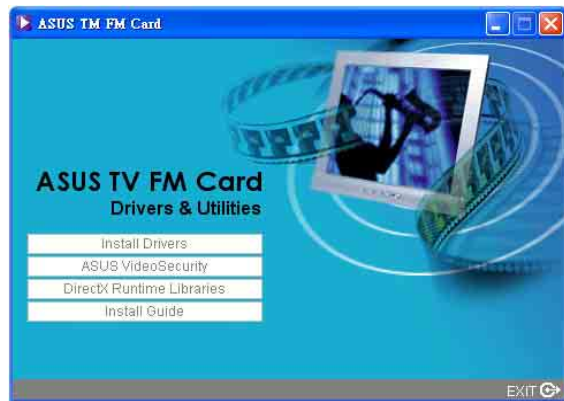


3. Software Setup

Install VideoSecurity

VideoSecurity is a powerful video stream comparison and detection utility that helps in detecting potential errors or intrusions at a specific time interval by using a video capture device, such as a digital camera.

1. Insert the support CD into your CD-ROM drive.
2. Double click the CD drive icon in **My Computer** to bring up the autorun screen or run **Setup32.exe** in the directory **\AutoRun** of your CD-ROM drive.
3. From the main menu, click **ASUS VideoSecurity**.



4. When the **Welcome** box appears, click **Next** to start the installation.



5. Follow succeeding on-screen instructions or prompts to complete setup.

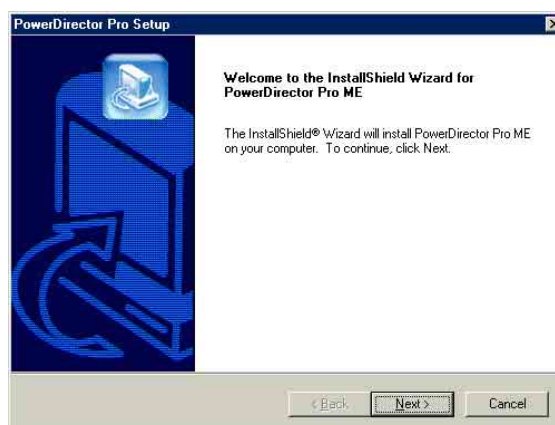
4. S/W Setup

3. Software Setup

Install PowerDirector Pro

Ever thought about directing your own movie? How about having all the creative controls and being in charge of the entire editing and post-production process? Well, today's computing technology has made all this possible for anyone who has recording devices, capture devices, a computer, and of course, the sensational new software application, PowerDirector.

1. Insert the support CD into your CD-ROM drive
2. Double click the CD drive icon in **My Computer** to bring up the autorun screen .
3. Select the language from the choices then click **Next**.
4. The **PowerDirector Pro Setup** window appears. Click **Next** to start the installation.
5. Follow on-screen instructions or prompts to complete installation.



4. Software Reference

ASUS Home Theater

The ASUS Home Theater is an integrated software with various multimedia applications. It allows you to enjoy multimedia entertainment such as watching TV, tuning to FM radio, listening to MP3s, playing DVDs, sorting and viewing video or pictures in one friendly user interface. You can easily turn your PC into a multimedia center with ASUS Home Theater!



A. Watch TV on your PC!

- TV Recording
- Time-shifting Playback function for temporary leave.
- Multi-channel previewing
- Scheduled recording
- Still image capture



B. Tune to FM Radio on your PC!

- Program listening
- Program recording
- Channel scanning
- Station seeking
- Station setting



4. Software Reference

C. Enjoy MP3s on your PC

- Listening to MP3 music
- Radio recording and playback
- Information display



D. Sort Videos on your PC!

- Sort recordings from TV/DVD/Video
- Display recordings from TV/DVD/Video
- Instant Preview feature
- Still image capture
- Slide show with music



E. Sort pictures on your PC!

- Sort pictures from TV/DVD/Video
- Display pictures from TV/DVD/Video
- Instant preview feature
- Print pictures



F. Play DVD/VCD on your PC!

- DVD/VCD playback
- Still image capture feature
- 5.1 channel audio support



4. Software Reference

G. Timeshifting feature!



Don't you hate that annoying phone call during your favorite TV show or an important game? ASUS has the perfect answer. The "Timeshifting" feature allows you to simultaneously watch, replay and record a TV program on same computer. You can now view, stop and replay any part of a show without missing the rest due to unexpected interruption.

When do you need Timeshifting?


- **Scenario 1**

Let's say you programmed to record a program that starts at 9 o'clock and ends at 11 o'clock, but you arrived home at 10. With **Timeshifting**, you don't have to wait until 11 o'clock to watch what you recorded because the feature permits play and record functions at the same time.

- **Scenario 2**

Five more minutes in the most important game of the year, and your phone starts ringing and your caller ID indicates that it's from your boss. What do you do? Continue to watch the game and lose your job or engage in a long boring conversation and miss the game. No more dilemma. Click the Pause  button, the computer will continue to record the rest of the game. Get rid of your boss, click Play  and continue where you left off.

- **Scenario 3**

Nice play by the goalie! Want to see it again? **Timeshifting** gives you instant replay capability without missing a beat, because the feature allows continuous recording even when you select the replay/rewind  function.

4. Software Reference

PowerDirector Pro

Ever thought about directing your own movie? How about having all the creative controls and being in charge of the entire editing and post-production process? Well, today's computing technology has made all this possible for anyone who has recording devices, capture devices, a computer, and of course, the sensational new software application, PowerDirector.

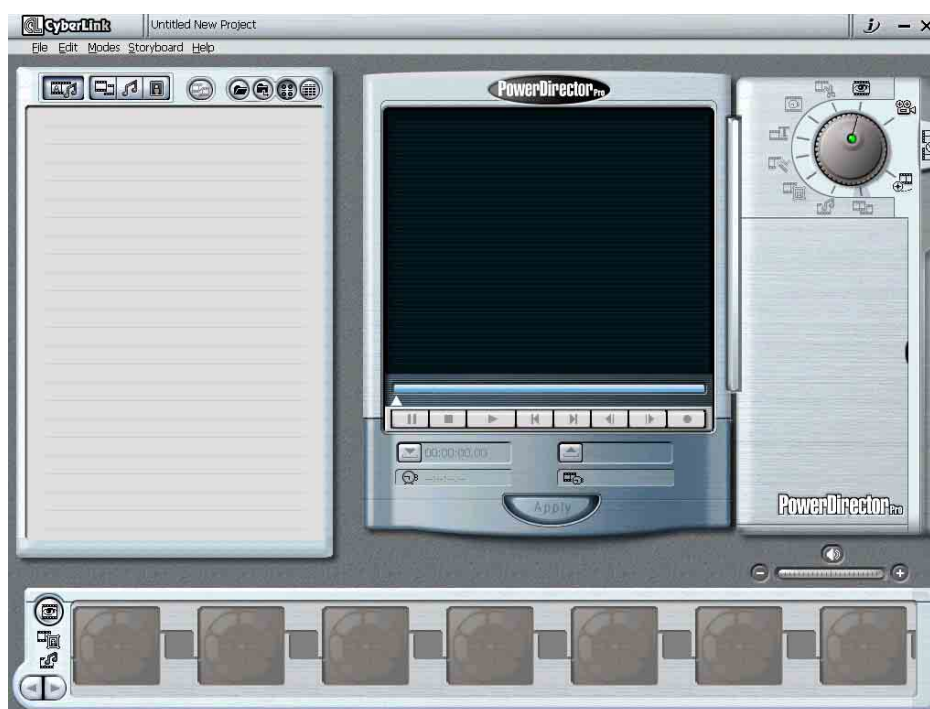
Admittedly, video editing software is not without its drawbacks. Since the advent of computers and its incredible growth in usage and processing speed power, video editing software applications have taken off to astronomical heights. Yet, a great inherent limitation, such as requiring a huge amount of disk space because of the raw video data it captures, still remains. This is why many still choose to edit with analog devices.

What makes PowerDirector the megastar of its industry in one quick flash is its ability to save precious producing time because of its Smart Video Rendering Technology (SVRT). Say goodbye to raw video data, which is usually captured in .AVI format, and say hello to plenty of hard drive space with the MPEG and AVI formats. No additional compression nor decompression is required when producing scenes with MPEG or AVI formats that do not contain effects, which saves you huge amounts of time compared to our competitors that compress and decompress the entire movie!

4. Software Reference

Additional SVRT features includes:

- altering video speeds
- detecting scenes
- a disc wizard that creates and burns movie discs in a cinch!
- adding titles to clips
- adding audio streams to clips
- picture-in-pictures (adding video or images to an existing video clip)
- a huge collection of transitions, video and titles effects
- master audio files
- watermarks



4. Software Reference



ASUS VideoSecurity

The ASUS VideoSecurity lets you detect intruders into your system and environmental changes and monitor a specified location or any incoming visitor. If VideoSecurity detects any deviation from the norm that you set, it may give an error message or not. Regardless of any messages, VideoSecurity will record:

- The last two detected snapshot image files from the video captured stream (saved into a access file named watch dog.mdb). Any image processing or editing software can then be used to view, modify, or distribute them.

Limitations

Because of differences in hardware sensitivity, VideoSecurity may not completely detect all possible errors. Before you execute VideoSecurity, there are some limitations you have to understand so that you can appropriately use it.

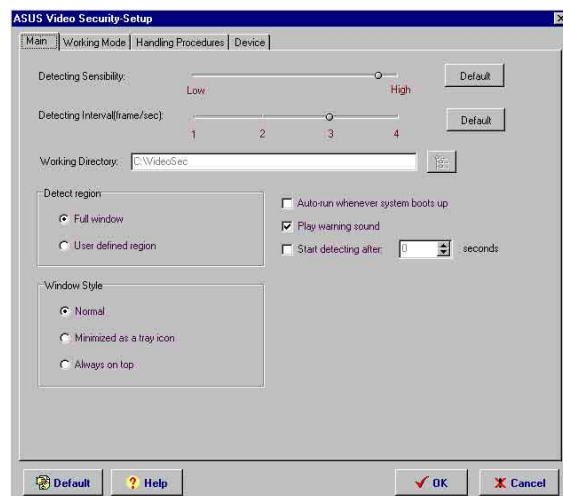
- Due to changing temperatures, the captured image of some CCDs will be twisted, which may give a wrong detection.
- If the features (e.g., color, luminance) of the object are similar to that of background, the object may not be detected clearly.
- The CCD cannot capture the object smoothly and immediately when an object moves too fast.

VideoSecurity is designed for the widest environments possible and error conditions, therefore it is necessary to tune the parameters in VideoSecurity Setup Wizard to get the best detection results.

Setup Wizard

Setup Wizard guides you through setting up the VideoSecurity features.

1. To open Setup Wizard, click the **Start** button, and then point to **Programs, ASUS Video Security,** and then click **Setup Wizard**. The **Video Security Setup Wizard** dialog box appears.



4. Software Reference

NOTE: The following descriptions are only for selected features of the ASUS VideoSecurity utility. For a full description of the features described in this manual and other features, refer to the ASUS VideoSecurity Online Help (HTML) format included with your support CD. You may also click the **Help** button to open the online help file.

Detecting Sensibility

This is an important parameter when setting up VideoSecurity. Your environment may change often but VideoSecurity is concerned only when there is a change in the environment. Make sure that you select a suitable sensitivity for your environment.

Detecting Interval(frame/sec)

This sets the scan rate. Default is 2 *frames/sec*. The higher the scan rate, the more accurate is the detection. Higher rates, however, entails a higher CPU usage. Do not use a high rate when you plan to use VideoSecurity while using other applications.

Working Directory

The **Working Directory** is the folder where the utility stores its temporary working and log files. The default is C:\VIDEOSEC. The directory is user-configurable. When VideoSecurity is ran, a sub-directory automatically created under the main directory, using the current date and time as the folder name. For example, "1999.11.30_12.30.20" means that VideoSecurity was started on 30 November 1999 at 12:30:20 PM.

Do not change the working folder's name while VideoSecurity is running. Otherwise, a fatal runtime error will occur.

Detect Region

- **Full window** detects all visible area when watchdog function is on.
- **User define region** detects only the area defined by the user when watchdog function is on. Feature will take effect only when VideoSecurity runs the next time.

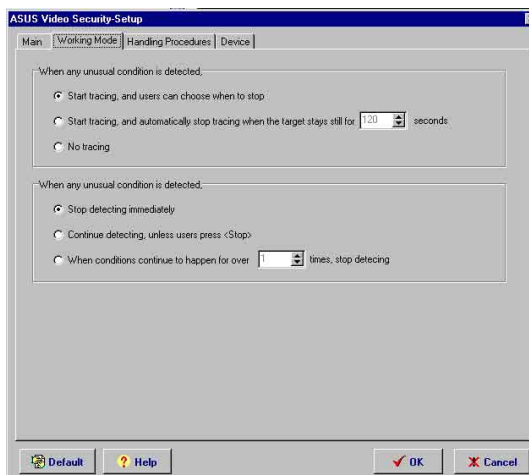
Window Style

- **Normal Window** is the default style, that is, VideoSecurity will function as a standard Windows program.
- **Minimized as a tray icon** lets you hide the main VideoSecurity window. This is useful when you don't want anyone to know you are monitoring. When this option is selected, the VideoSecurity icon will appear on the taskbar in the lower-right corner of your screen. Whenever VideoSecurity detects a problem, it will run. You may also run VideoSecurity by clicking the icon.
- **Always on Top** is like a Normal Window except that the main window and control panel is shown always on top of other programs or utilities. You may right click to enable or disable this function at the main window anytime.

4. Software Reference

Working Mode

Click the Working Mode tab to define tracing procedure. VideoSecurity not only detects errors or problems in your card, but also detects an intrusion.

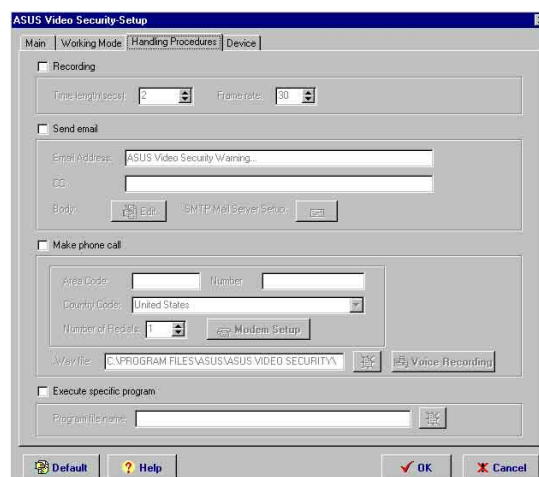


This box appears when an error occurs. Use this Tracing Box to choose the error processing method for tracing.



Handling Procedure

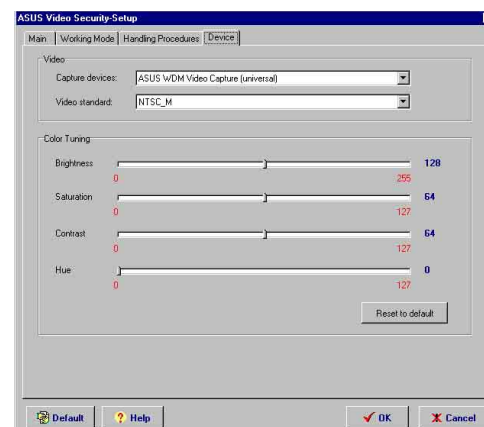
Click the Handling Procedure tab to set up personalized handling procedure through Recording, Send email, Make phone call or Execute specific program. VideoSecurity will execute procedures set up by the user once any error is detected.



Devices

Click the Devices tab to select capture devices and video standard.

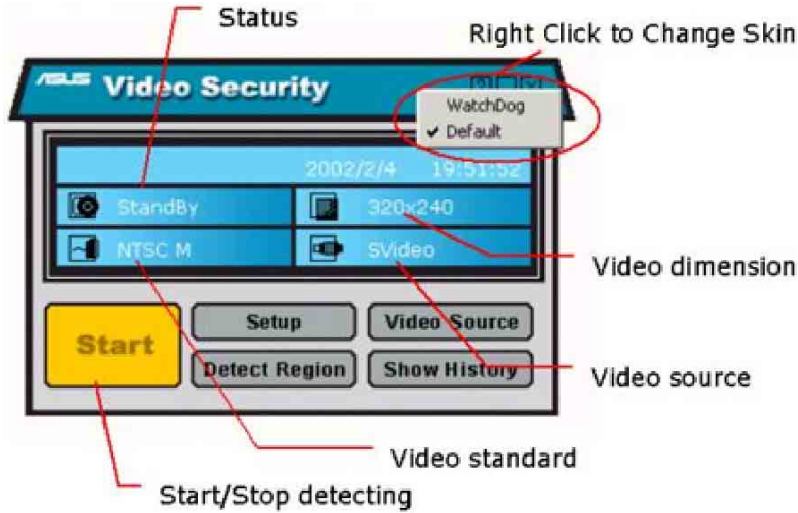
Use mouse to fine tune the Video Security screen and then click **OK** when done.



4. Software Reference

Running ASUS VideoSecurity

Click the ASUS icon on the taskbar's status area. Clicking this icon opens the ASUS Control Panel, then click the ASUS VideoSecurity to run VideoSecurity.



Detect Region

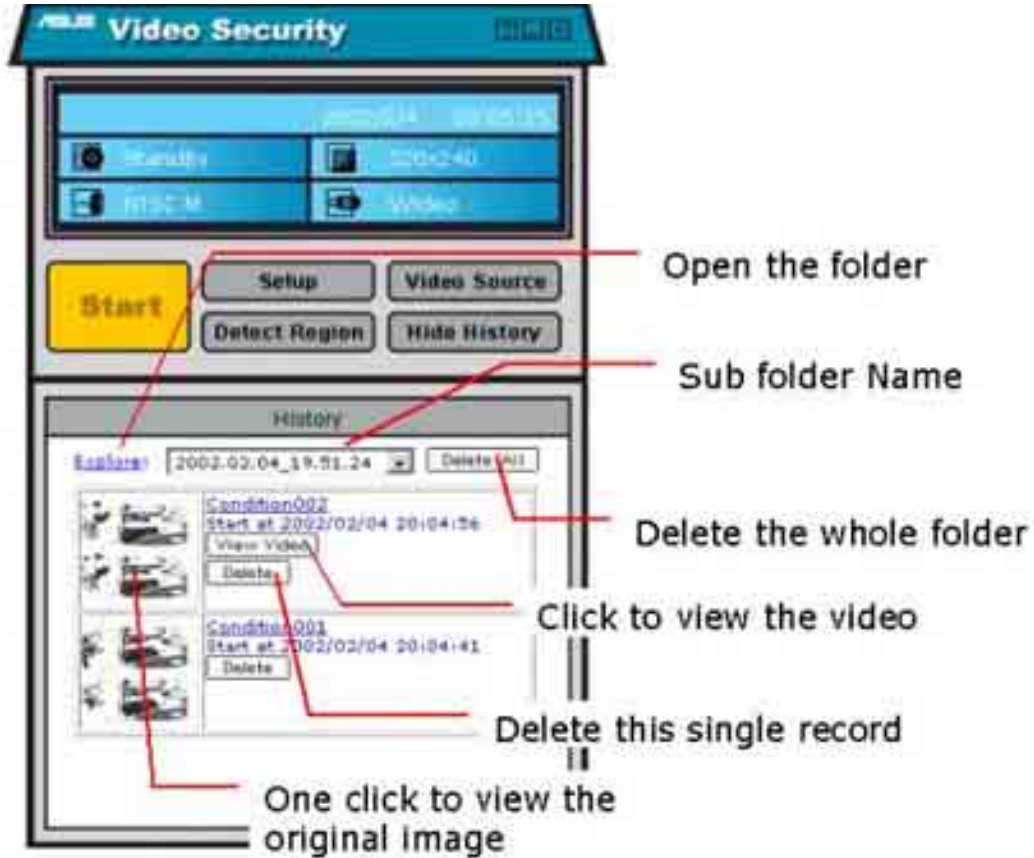
Click the Detect Region button to define your VideoSecurity video window. Use your mouse to drag your intended rectangular region.



4. Software Reference

Show History

Click the Show History button to see the abnormal situation record including the date, time, and other information.



5. Capture Resolution Table

Capture resolution table

Video Standard	Supported Resolution
NTSC/PAL	720X576, 720X480, 720X288, 720X240 704X576, 640X480, 640X288, 640X240 352X288, 352X240, 320X240, 240X180 240X176, 176X144, 160X120

International TV Systems and Standards

IMPORTANT! Because systems and standards may change or grow, the information below are provided *only as reference*. Be sure that the TV FM Card model that you purchased is appropriate for the system and standard of the country where you will be installing TV FM Card. For example, you should have the NTSC model if you plan to use your TV FM Card in countries with NTSC systems, or PAL/SECAM systems.

Country	TV	Color	Stereo	Subtitles
Albania	B/G	PAL		
Argentina	N	PAL-N		
Australia	B/G	PAL	FM-FM	Teletext
Austria	B/G	PAL	FM-FM	Teletext
Azores Is. (Portugal)	B	PAL		
Bahamas	M	NTSC		
Bahrain	B	PAL		
Barbados	N	NTSC		
Belgium	B/G	PAL	Nicam	Teletext
Bermuda	M	NTSC		
Brazil	M	PAL-M	MTS	
Bulgaria	D	SECAM		
Canada	M	NTSC	MTS	C C
Canary Is	B	PAL		
China	D	PAL		
Colombia	N	NTSC		
Cyprus	B	PAL		
Czech Republic	D/K	SECAM/PAL		
Denmark	B	PAL	Nicam	TeleText
Egypt	B	SECAM		
Faroe Islands (DK)	B	PAL		
Finland	B/G	PAL	Nicam	TeleText
France	E/L	SECAM		Antiope
Gambia	I	PAL		
Germany	B/G	PAL	FM-FM	TeleText
Germany (prev East)	B/G	SECAM/PAL		
Gibraltar	B	PAL		
Greece	B/H	SECAM		
Hong Kong	I	PAL	Nicam	

5. Capture Resolution Table

Country	TV	Color	Stereo	Subtitles
Hungary	B/G & D/K	PAL (was SECAM)	Nicam (Budapest only)	
Iceland	B	PAL		
India	B	PAL		
Indonesia	B	PAL		
Iran	H	SECAM		
Ireland	I	PAL	Nicam	TeleText
Israel	B/G	PAL	Nicam	TeleText
Italy	B/G	PAL	FM/FM	TeleText
Jamaica	M	SECAM		
Japan	M	NTSC	Matrix	
Jordan	B	PAL		
Kenya	B	PAL		
Korea	M	NTSC		
Luxembourg	B/G	PAL	-	TeleText
Madeira	B	PAL		
Madagascar	B	SECAM		
Malaysia	B	PAL		
Malta	B/G	PAL		
Mauritius	B	SECAM		
Mexico	M	NTSC	MTS	C C
Monaco	L/G	SECAM/PAL		
Morocco	B	SECAM		
Netherlands	B/G	PAL	FM-FM	TeleText
New Zealand	B/G	PAL	Nicam	TeleText
North Korea	D/K?	SECAM		
Norway	B/G	PAL	Nicam	
Pakistan	B	PAL		
Paraguay	N	PAL		
Peru	M	NTSC		
Philippines	M	NTSC		
Poland	D/K	PAL		Teletext
Portugal	B/G	PAL	Nicam	Teletext
Romania	G	PAL		
Russia	D/K	SECAM		
Saudi Arabia	B	SECAM		
Seychelles	I	PAL		
Singapore	B	PAL		
South Africa	I	PAL		
South Korea	N	NTSC		
Spain	B/G	PAL	Nicam	
Sri Lanka	B/G	PAL		
Sweden	B/G	PAL	Nicam	Teletext
Switzerland	B/G	PAL	FM-FM	TeleText
Tahiti	KI	SECAM		
Taiwan	M	NTSC		
Thailand	B	PAL		
Trinidad	M	NTSC		
Tunisia	B	SECAM		
Turkey	B	PAL	-	TeleText

6. Troubleshooting

Description	Recommended Action
<i>My monitor is not capable of high resolution or refresh rate.</i>	<ul style="list-style-type: none">• It depends on the display characteristics of your monitor. Consult your monitor documentation for the proper configuration.
<i>DirectX or the other applications report no AGP memory available.</i>	<ul style="list-style-type: none">• Windows 95 is not OSR2.1 or later.• DirectX version is not 6.0 or later.• You have not installed appropriate drivers for the AGP chipset. (e.g. VGARTD.VXD for Intel 440LX).• Incorrect BIOS setting. BIOS must support at least 64MB for AGP aperture size.
<i>My MPEG player displays bad quality video clips.</i>	<ul style="list-style-type: none">• You must install DirectX 8 or later so that your player can take advantage of the hardware acceleration mode (DirectDraw).• Try to switch to a lower resolution, color depth, or refresh rate. Switching to a lower mode allows your player to use hardware acceleration mode.• Switch dual view mode to VGA or TV mode.
<i>I am using Video Security and it seems my hard disk space is almost exhausted.</i>	<ul style="list-style-type: none">• This is a very important issue when you decide to use VideoSecurity with the “never stop” option. You must be aware of the free space of your hard disk—it must be enough for storing temporary files in the current working directory. If disk space is exhausted, VideoSecurity will not store any information and give you a warning message.
<i>System can not find USB Human Interface Device (HID) drivers in Windows 98.</i>	<ul style="list-style-type: none">• You must install HID drivers from Windows 98 setup CD.

