# 878TV

# FCC Requirement   $\mathsf{CE}$

This device has been certified to comply with the limits for a Class B computing device pursuant to Subpart J of Part 15 of the FCC Rules. See instructions if interference to radio reception is suspected.

**WARNING:** This equipment generates and uses radio frequency energy and, if not installed and properly, that is, in strict accordance with the manufacturer's instructions, may cause interference to radio or television reception.

It has been tested and found to comply with the limits for a Class B compliant device in accordance with the specifications in Subpart J of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference in a residential installation.

However, there is no guarantee that interference-will not occur in a particular installation.

If this equipment does cause interference to radio or television reception, which can be determined by turning the equipment off and on, te user is encouraged to try to correct the interference by one or more of the following measures:

> Reorient the receiving antenna
> Relocate the computer away from the receiver
> Move the computer away from the receiver
> Plug the computer into a different outlet so that the computer and the receiver are on different branch circuits
> Ensure that the card's mounting screws, attachment connector screws, and ground wires are tightly secured
> Ensure that slot covers are installed in all unused slots

If necessary, consult your dealer, service representative, or an experienced radio/television technician for additional suggestions.

The manufacturer is not responsible for any radio or TV interference caused by unautorized modifications to this equipment. It is the responsibility of the user to correct such interference.

The user may find the following booklet prepared by the Federal Communications Commission helpful:

*How to Identify and Resolve Radio-TV Interference Problems.*

This booklet is available from the Government Printing Office, Washington D.C, 20402, Stock No. 004-000-00345-4

**NOTE:** You must use shielded interface cables with a ferrite bead in order to maintain compliance with the limits for a Class B device.

CAUTION : CHANGES OR MODIFICATIONS NOT EXPRESSLY APPROVED BY THE PARTY RESPONSIBLE FOR COMPLIANCE COULD VOID THE USER'S AUTHORITY TO OPERATE THE EQUIPMENT

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Our company warrants this product against defects in materials and workmanship for a period of one (1) year from the date of purchase. During the warranty period, a product determined by us to be defective in form or function will be repaired or at our option, to be replaced at no charge. This warranty does not apply if the product has been damaged by accident, abuse, misuse, or as a result of service or modification other than by us.

This warranty is in lieu of any other warranty expressed or implied. In no event shall we be held liable for incidental or consequential damages, such as lost revenue or lost business opportunities arising from the purchase of a this product.

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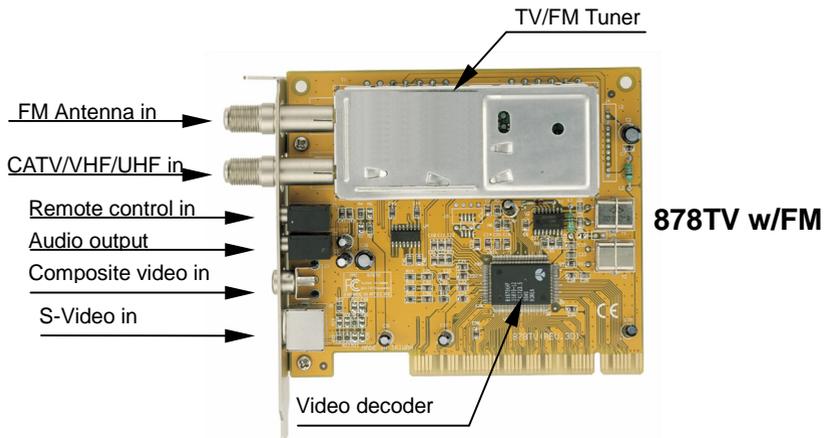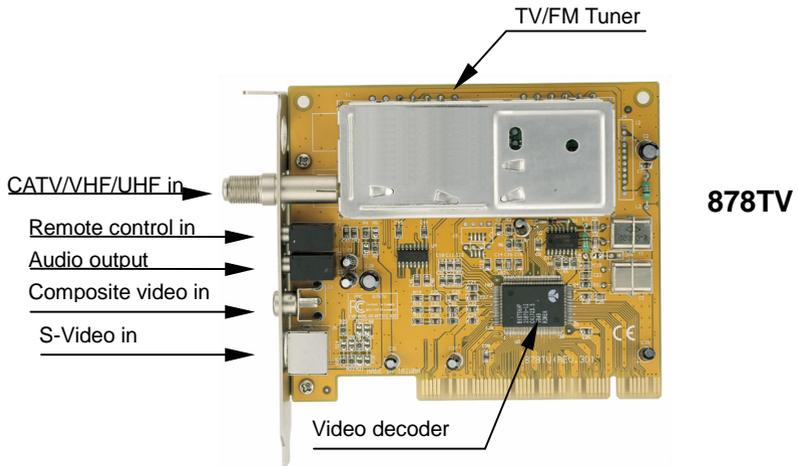
Fully PCI Rev 2.1 compliant

Supports Windows 95 / Windows 98

Supports NTSC, PAL or SECAM video formats

Full TV frequency range for CATV/VHF/UHF

FM band coverage from 87.5 to 108MHz

Combined S-Video & Composite video input

Supports planner YUV data format

VBI data capture for closed captioning data decoding

Includes software teletext decoding

# 2. System Requirements

Intel Pentium 90MHz or higher, and compatible computer

Mainboard with Intel 430FX chipset or higher

PCI local bus PnP 2.1 compliant

SVGA support higher than 640x480 / Hi-color

Sound Card support for audio mix functions

Cable / VHF / UHF antenna

Windows 95 / Windows 98

DirectX Ver 5.0 or higher

Minimum harddisk free space of 5M bytes

# 3. Specifications



TV/FM Tuner

CATV/VHF/UHF in

Remote control in

Audio output

Composite video in

S-Video in

Video decoder

**878TV**



TV/FM Tuner

FM Antenna in

CATV/VHF/UHF in

Remote control in

Audio output

Composite video in

S-Video in

Video decoder

**878TV w/FM**

The 878TV card combines the functions of TV tuner and Video capture. This card is easy installation and do not need any ribbon cable for connection.

**There are two kinds of 878TV for your option .One is with FM and another is without FM. That is , 878TV and 878TV w/FM**

# 4. Hardware Installation

1. Turn off your computer first. Remove the case and insert this TV tuner / Capture card into the PCI slot. Make sure the card is well seated in the slot, and fasten it with screws. Then replace the case.

2. If inserting the card into the slot is difficult, you can remove the converter(s) from TV tuner to allow for the installation of this card. Once the card is firmly seated, then re-plug the converter(s).

3. Connect the CATV/VHF/UHF antenna to the tuner input port of the card.

4. Plug the audio cable into the audio output port of this card. And plug the other end of the audio cable into the "LINE-IN" of the sound card.

5. Plug the connector of the receiver into the port of "Remote" on this card.

   **Caution :**
   **When you plug-in or remove the connector of the receiver, please make sure your computer is power off.**

6. After completing the above steps, you may begin to install the application software.

# 5. Software Installation

## 5.1 Windows 95/98 driver Installation

1. Turn on your computer and let it boot up with Windows 95/98.

2. Your Windows 95/98 will detect the newly added hardware and will show the following message on your monitor.



3. Click **"Cancel"** or press **"ESC"** to skip the wizard.

4. Put the AutoRun driver into CD-ROM (waiting for a few seconds).

   Click **"878TV"** on the Installation window.

5. Click **"Install Driver"**.



6. Click **"NEXT"** on every message box.

7. Chose **"Restart computer right now"** and click **"Finish"** to restart Windows.



8. After restart your Windows, Windows will detect the newly added hardware and Wizard will searched a driver for this new hardware.

   Click **"NEXT"**.

9. Click **"NEXT"** on every message box.

   Don't select any locate and Click **"NEXT"** on every message box.



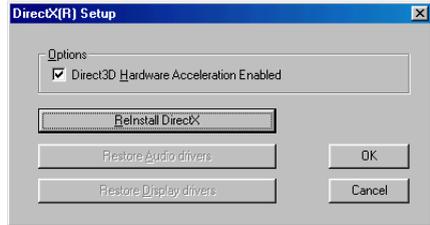10. Click **"Finish"** and the installation have finished completely.

## 5.2 DirectX Installation

1. It is not necessary to reinstall DirectX, if it is already in your system. If you want to install DirectX, click-on **"DirectX"**.

2. Click **"ReInstall DirectX"**

3. After DirectX Installation finished, Windows will restart. If you have other programs under executing, please save files and exit those programs.

# 6. TV/FM Application software

## 6.1 Software installation

1. Operation system must be Microsoft Windows 95/98 or higher.

2. Install the drivers when Windows ask for device drivers (Please refer to chapter5 ). And make sure the drivers have been installed properly.

3. Place the video capture application CD-Title into the CD-ROM drive.

4. Install DiretX software that is in this CD-Title, and restart the system.

5. Follow the procedures outlined on the screen of this AutoRun CD to install the application software.

6. Restart to run and enjoy the applications.

7. Please refer to the following sections for more function descriptions.

## 6.2 TV control/capture application

**Caution :**

**Select your TV Country code first for the "TV Country Code Configuration" setting.**



The TV control and video capture application is used for 878TV card. Please refer to the following information:

Click to exit the TV application

Click to minimize the control panel

Click to enable online help

Click to set the multiple tone system if supported

or Click to enable /disable mute audio.

Click to switch the video source.

When is shown on the control panel, the cable input is selected.

When is shown on the control panel, the antenna input is selected.

When is shown on the control panel, the composite input is selected.

When is shown on the control panel, the SVHS input is selected.

### Two-digit Channel Number

For the channel setting, please use fast channel selector, which consists of buttons that, let the user to select a two-digit channel.

.   To select channel 38, click then .

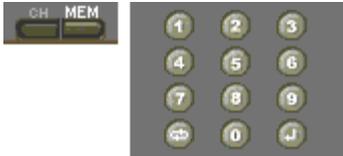.   To select channel 07, click then or click then to accept the channel input.

## Channel Select

 Click to return to the previous channel.

 Click to accept the channel input.

 Click to up the channel.

 Click to down the channel.

## Audio Mixer

 Click to increase the volume.

 Click to decrease the volume.

## Favorite channels



## Memorize Favorite channels

 Click to select the memorized channel.

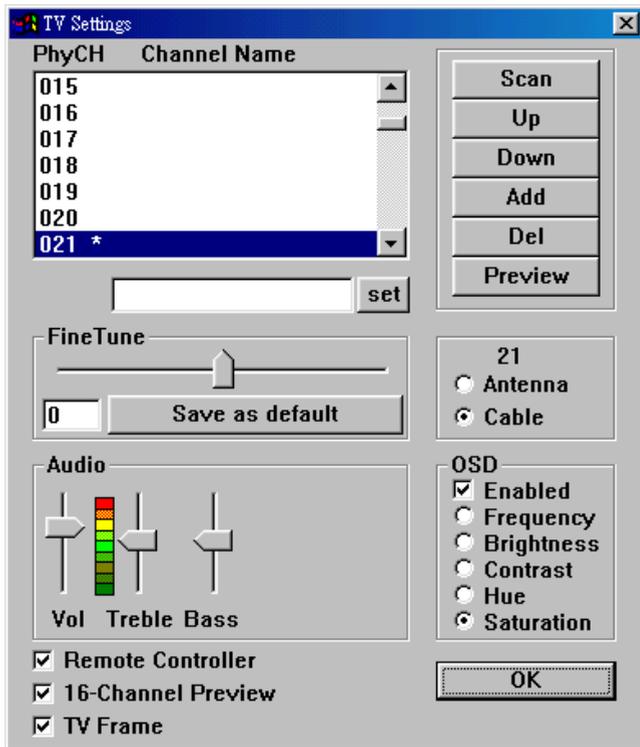 ...  Click to memorize current channel as a favorite channel.

## Recall Favorite channels

To switch to the memorized favorite channel, click the below buttons:

 Click to set the keypad as ordinary channel selector.

 Click to set the keypad as favorite channel selector.

 Click to select the first favorite channel.

 Click to select the last favorite channel.

## TV Channel information



## TV advanced functions

TV setup dialog consists many advanced functions that make the capture card to be fully controlled by the experienced user.
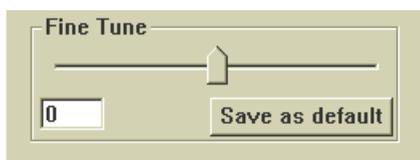
### TV information block

Please drag the list bar to select the channel by clicking on the left mouse button. The channel name will be copied to the edit text box. Edit and the click SET button to update the channel name.

To enable or disable the channel, please double click on the left mouse button. An asterisk (*) will be shown if the channel is enabled. A disabled channel will be skipped when channel up or down key is clicked.
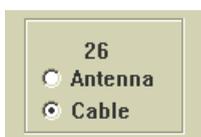


### TV channel frequency fine tune (Optional)

This function is used to adjust the receiver frequency in a range from -128 to +127 for better video quality. Please click the "SAVE AS DEFAULT" button to write to default channel table. Please click the left or right side of the track bar to get smaller step to increase or decrease. The tracked value will be shown in the value box. Be sure to click and save the value for the next time.
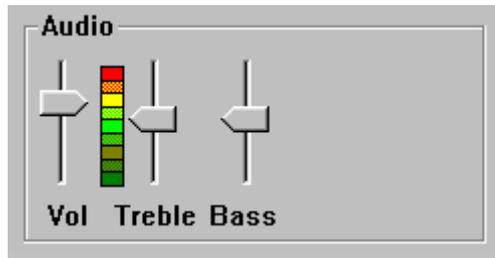


### TV input source select

Slick to select the Cable CATV or the Air antenna input is selected. The selected channel number and the fine tune number will be shown too.
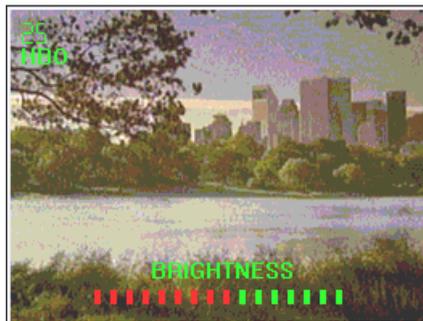
**Audio Mixer dialog-box**



Click radio button to change the audio mode as STEREO and MONO. To adjust the volume of the audio output, please drag the equalizer.

**OSD interface**

Enable or disable enhancement on screen display (OSD) function. The TV channel number, name and configuration parameters are displayed in the video display window.



☑ Remote Controller
☑ 16-Channel Preview
☑ TV Frame

**Remote Controller**
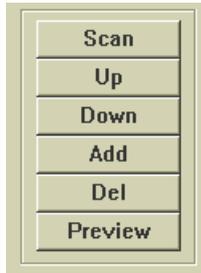
Click to enable/disable external remote controller.

**TV Frame**

Click to add/remove TV frame on video display window.

### 16-Channel Preview

Click to enable 16-channel preview, unchecked to preview 4 channels (640x480 mode) or 9 channels (1024x768 mode) only.



### Channel scan

Channel scan is for the new system connected to the capture card. Please scan when a new capture card. Please scan when a new capture card newly installed. The channel scanned with be shown with an asterisk (*). To modify the channel information, please refer to described above to edit the name.

### Channel up

Click to reach the previous channel. The selected bar and channel information will be updated synchronously.

### Channel down

Click to reach the next channel. The selected bar and channel information will be updated as well.

### Add channel

Click to add current displayed channel.

### Del channel

Click to erase current displayed channel.

## TV channel preview

Channel preview is for the user to pick up some favorite channels and show them in a full screen display. Click the right mouse button on any of the display windows, a channel selector will be prompted for selecting the channel. The channel selected will be shown on the top left comer with white background. The channel will be shown in next scanning cycle.

## Advanced parameter function

Click to set the TV parameters.

Click to set the video parameters.

## Video capture function

Click on the control panel to invoke capture functions:

F2 or click to copy the image to clipboard for other DDE application.

F3 or click to save the still image as the BMP or JPEG file.

F4 or click to save sequence image as the AVI file

F5 or click to play captured AVI file, default AVI file is selected.

F12 or slide shows each 160x120 video image at 15 frame per second in a full screen display. 16 windows shown in a screen with 640x480 resolution and up to 100 windows shown in a screen with 1600x1280 resolution. To exit, double click the left mouse button. The full screen is saved to the CLIPBOARD when exit. The captured image is ready for other DDE available applications.
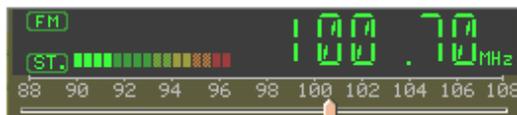
## 6.3 FM control application



The FM application is used for 878TV with FM tuner modules. Invoking FM applicaiton will close TV application automatically. The FM application has some function of the following:

Click to exit the FM application.

Click to minimize the FM application.

Click to toggle the FM STEREO/MONO status.

Click to mute audio.

Click to enable audio.

Click to seek for the next channel.

Click to seek for the previous channel.

Click to fine tune frequency 0.05MHz forward.

Click to fine tune frequency 0.05MHz backward.

### FM frequency band

Please click to toggle FM band between 70~108MHz and 88 ~108MHz.

### FM frequency slider



Please drag the frequency slider anywhere by the left mouse button and fine tune by clicking the frequency fine tune button.

### Memorize favorite channels

Click to select memorized channel.

... Click to memorize current channel as favorite.

### Recall favorite channels

To switch to the memorized favorite channel, click the buttons below.

... Click to select the favorite channel.

### Assign favorite channel's name



To edit the name of the FM station, move the mouse to the memorized key and click on the right mouse button and a small window created. Keyin the name of the station and press <Enter> to save. The name will be shown on the hint LCD if the mouse is moved to the memorized key.

# 7. 878TV FAQ

**Q:** My operation system is the Windows 3.x. Can I use this 878TV?

**A:** No, Sorry! The 878TV support Windows 95 and Windows 98. You must first update your operating system.

**Q:** What's the difference between PCI VGA card and AGP VGA card for the 878TV?

**A:** The 878TV requested of the VGA card specifications is following.

- Ã Linear frame buffer

- Ã Hardware cursor

- Ã Graphics mode support 640x480/hi-color

**Q:** What kinds of VGA cards have a known compatibility problem with the 878TV?

**A:** Trident 9685, Trident 9750 and Trident 9850 may cause compatibility problems, please check with your dealer.

**Q:** When in the 1280x1024 graphics mode, the Video Screen does not display a Full-Screen.

**A:** 878TV need more graphics memory at a higher resolution. The best graphics mode is 800 x 600/Hi-Color or 800 x 600/True-Color when watching TV.

**Q:** Why the video picture motion is slowly when I capture or see at preview mode?

**A:** That is normal, because the signal is via CPU and memory to display.
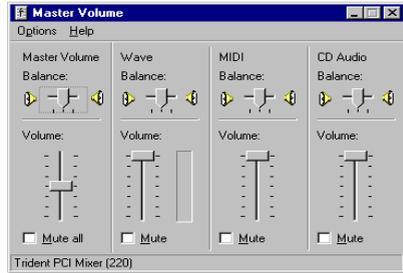
**Q:** How to enable audio function

**A:** 1. Double-click "speaker"



　　2. Click "properties" of
　　　　"options".



　　3. Enable " line in " of
　　　　"playback".