



# VDT-100 User Manual

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# 1. VDT-100 USB Digital TV Receiver Introduction

## 1.1 Product Introduction

- Watch TV anywhere
- Pocket size
- Smallest DTV USB receiver
- Easy to install
- USB 2.0 port compatible
- No need extra-extended antenna
- Friendly UI
- Fashionable exterior
- Mobile mode: under 3km/hr moving

## 1.2 Package content

- VDT-100 USB receiver
- Infrared remote controller
- Driver CD
- User's and installation guide
- USB cable
- Leather pouch



## 1.3 System requirement

- OS: Windows 2000-SP4
- Windows XP
- Desktop or Notebook
- CPU: 800MHz or above
- Main Memory: 128MB RAM (256MB recommend)
- VGA display card with overlay support, at the least 8MB memory
- Sound card
- USB 2.0 port only
- Microsoft DirectX 9.0

## 1.4 Features

- USB bus powered, no extra power adaptor
- Convenient extendable rod antenna
- USB2.0 port compatible
- High quality aluminum metal case
- High quality digital terrestrial TV & radio receiving (DVB-T)
- Portable device
- Electronic Program Guide (EPG)
- Channels auto scan 6/7/8 M
- Teletext
- MPEG-II software decoding
- Favorite list
- Still frame capture
- Multi channel preview matrix
- Channel auto scan
- Remote control
- Red-light LEDs for USB link
- Real time Digital Video Recording (DVR) and scheduling recording and play
- 16:9 & 4:3 wide screen                      ■ Grab image
- Video quality adjustment                      ■ Software upgradeable

## 1.5 Specification

Tuner	Attached Rod Antenna
	External antenna(optional), Input Terminal: 75 Ohm MMCX connector
	Receiving Frequency: 48.25 ~ 863.25 MHz Tuning Range
COFDM & FEC	Fully DVB-T Compliant
	2K or 8K FFT Size
	Punctured Codes: 1/2, 2/3, 3/4, 4/5, 5/6 and 7/8
	Bandwidth: 6/7/8 MHz Auto Select
Demultiplexing	Max No. Section filtering: 32PIDs
	Engine: Hardware
	Stream capture: PES & TS
A/V Format	Video format: MPEG-II Main Profile& Main Level
	Audio format: MPEG-II Audio layer I & II
Modulation	QPSK, 16QAM or 64QAM
Dimension	95mmx70mmx13mm (L x W x H)

## 2. Installation Guidance

### Notice:

**Before plugging VDT-100 into USB port, please finish the software installation first.**

### 2.1 Software installation

Insert the driver CD for software installation.

Please follow the instructions.



Select "Program Driver Install" to start installation.

### Driver / Program Install:

Press to start driver / program installation

### Adobe Reader Download:

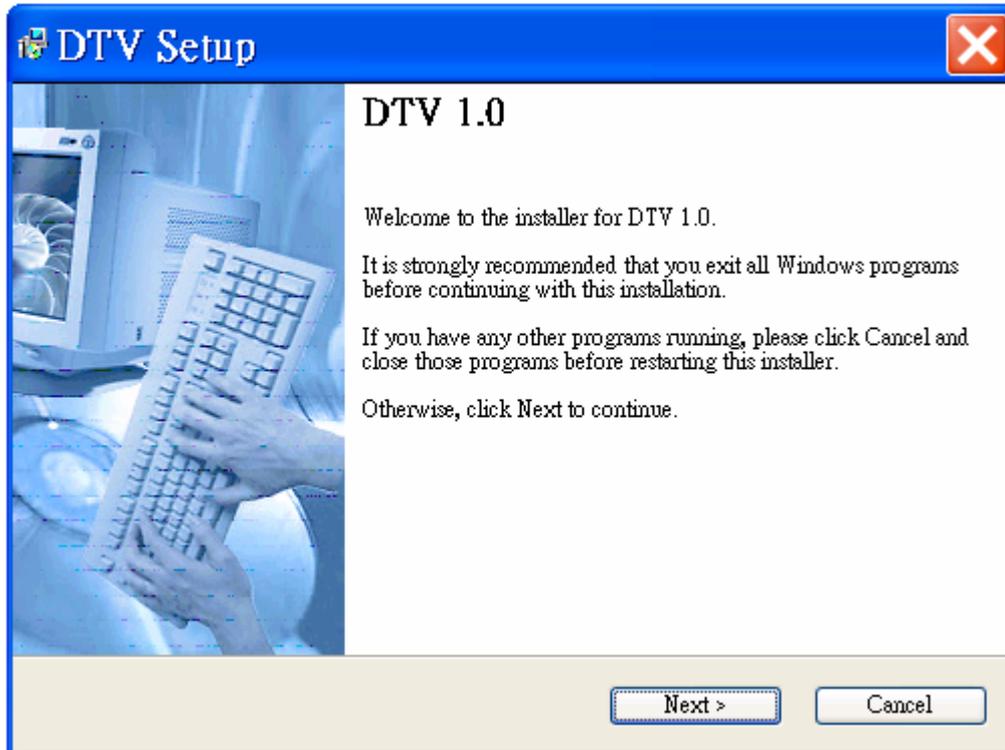
Directly link to Adobe Acrobat website to download PDF reader. To view VDT-100 user manual, PDF reader has to be installed first.

**User manual:**

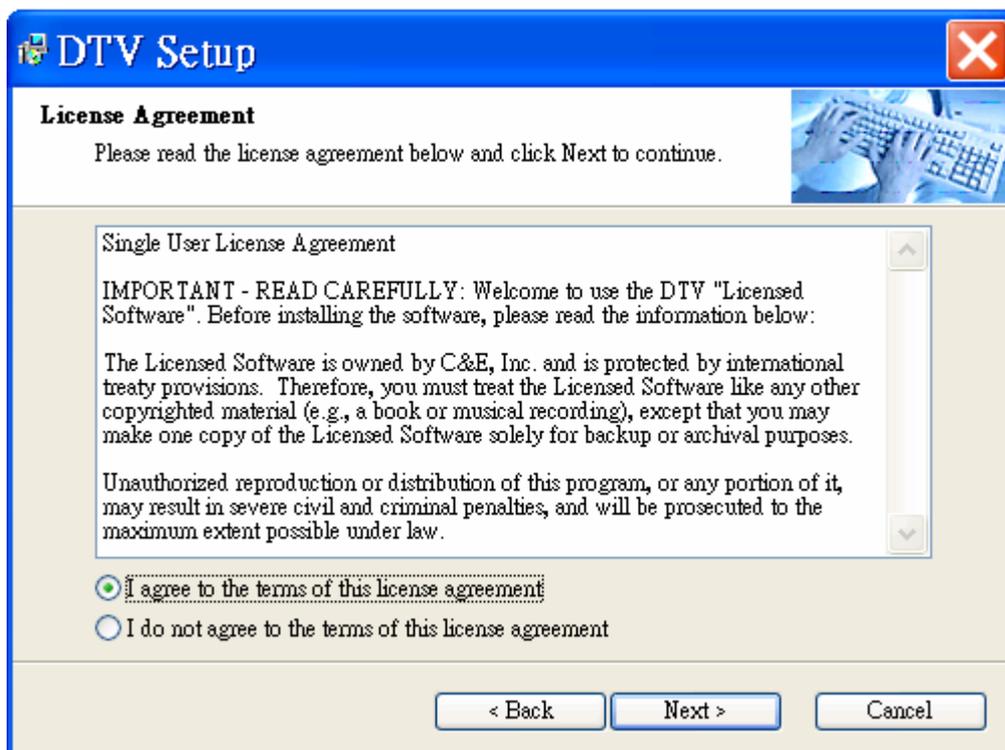
Press to read VDT-100 user manual

**Exit:**

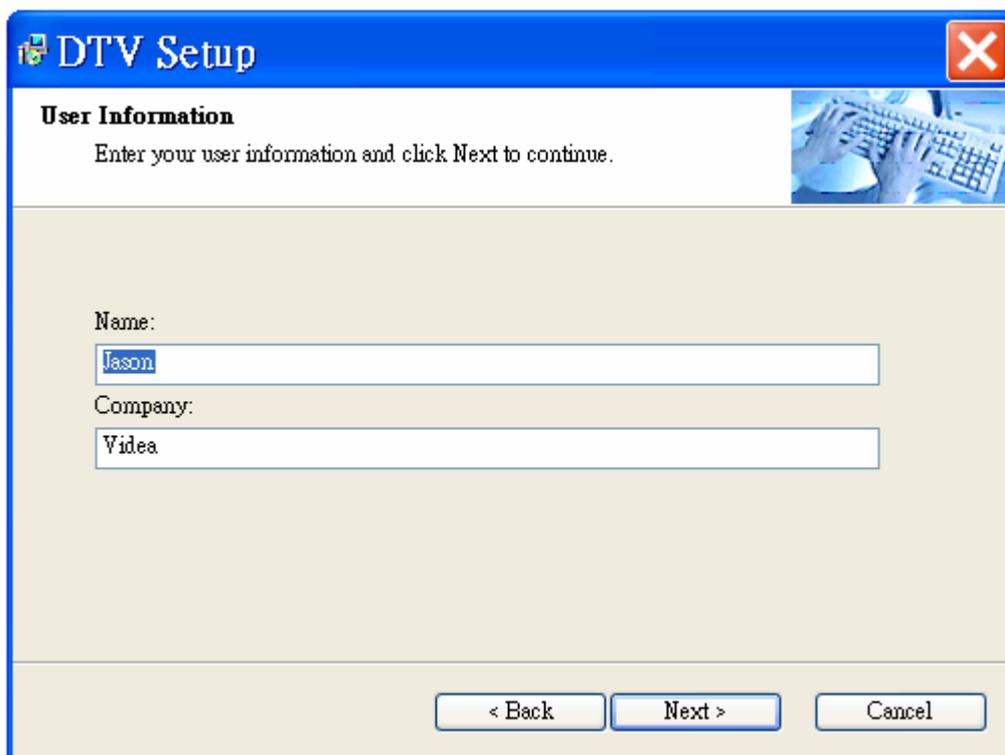
Press to exit the installation



Press "Next " to continue the installation.



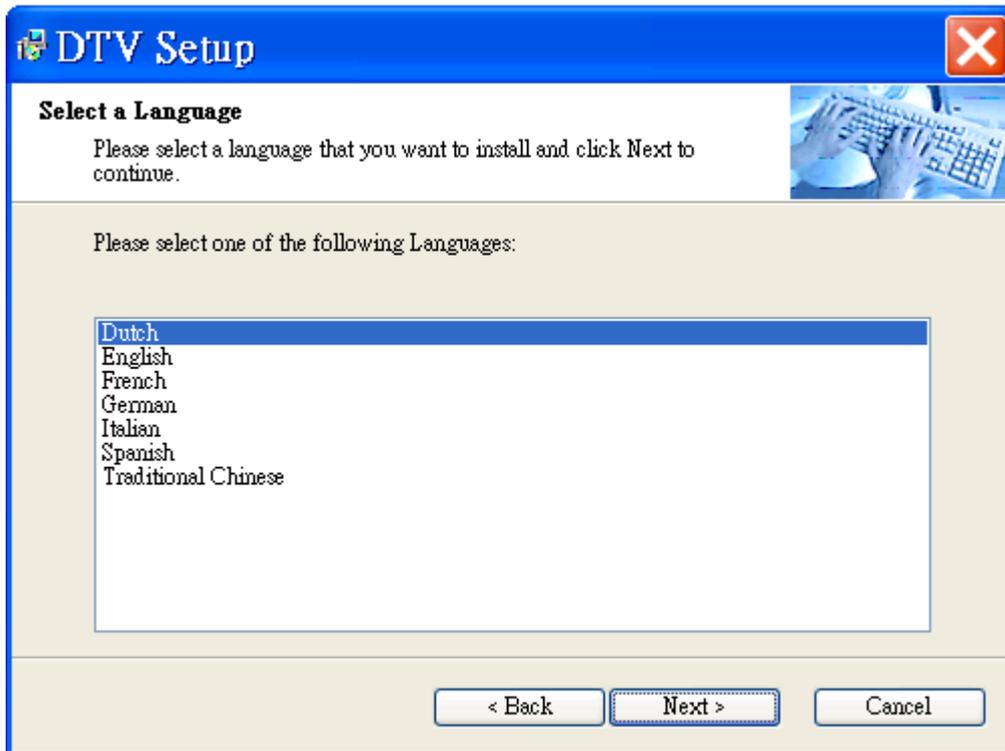
After reading the license agreement, please select to “I agree to the terms of this license agreement”.



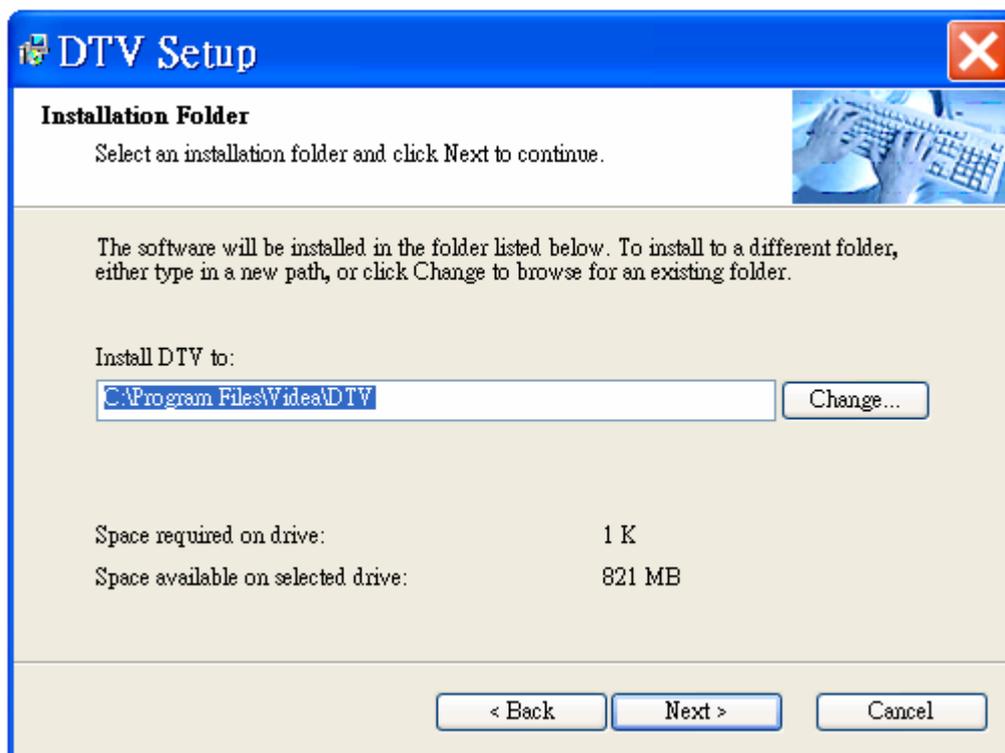
Type in user information.



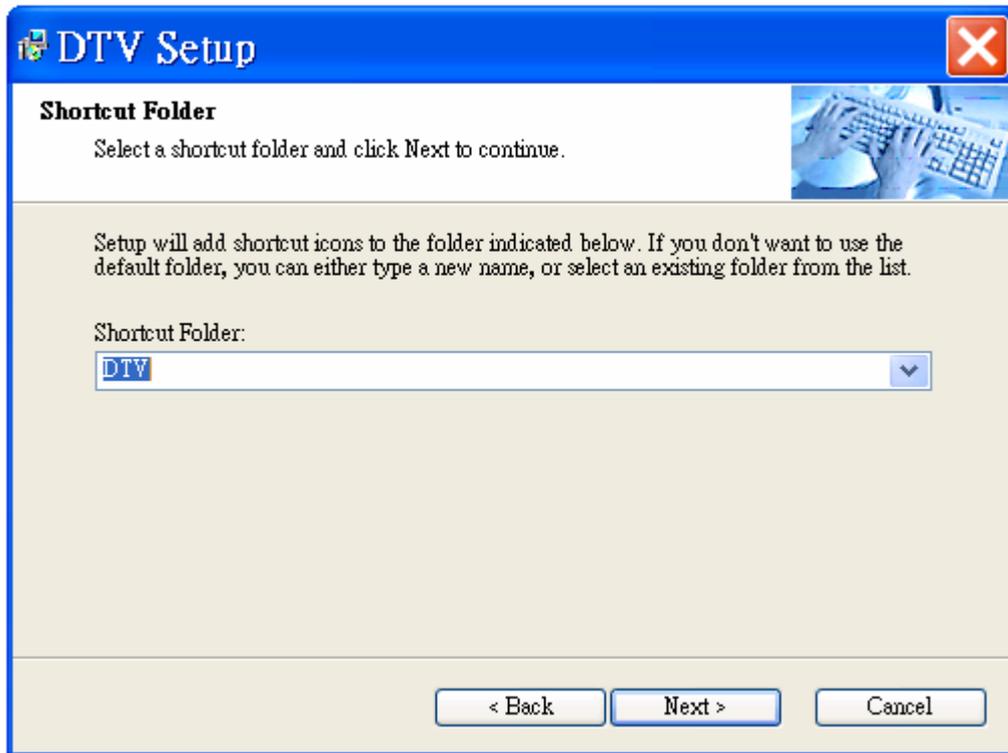
Insert “Serial Number” which printed on the CD.



Select language.



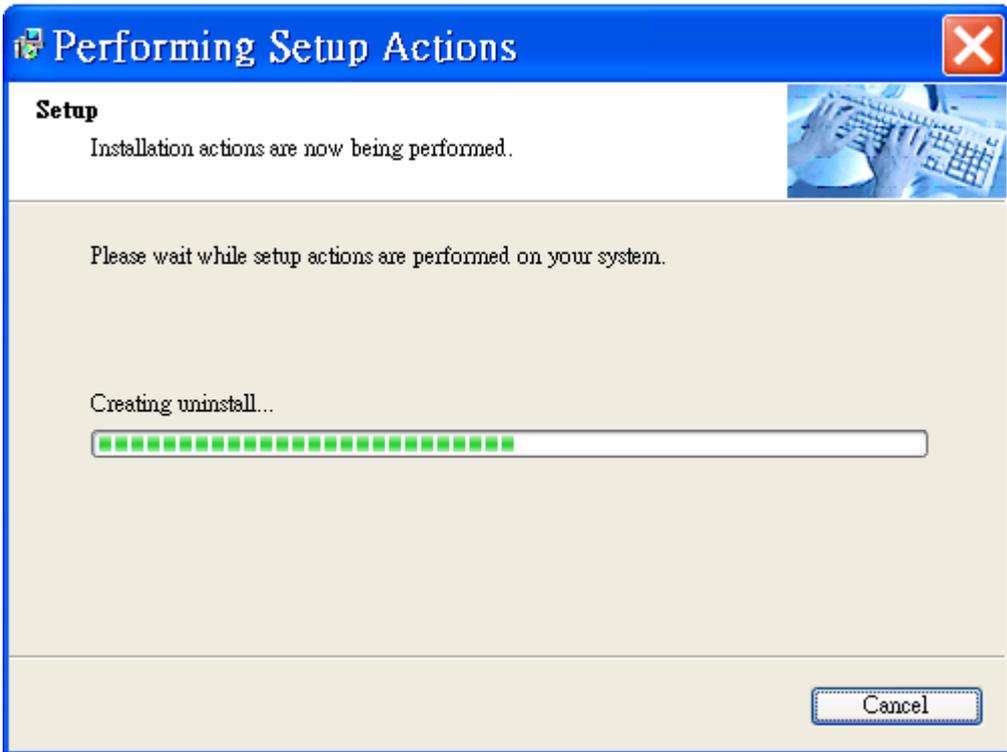
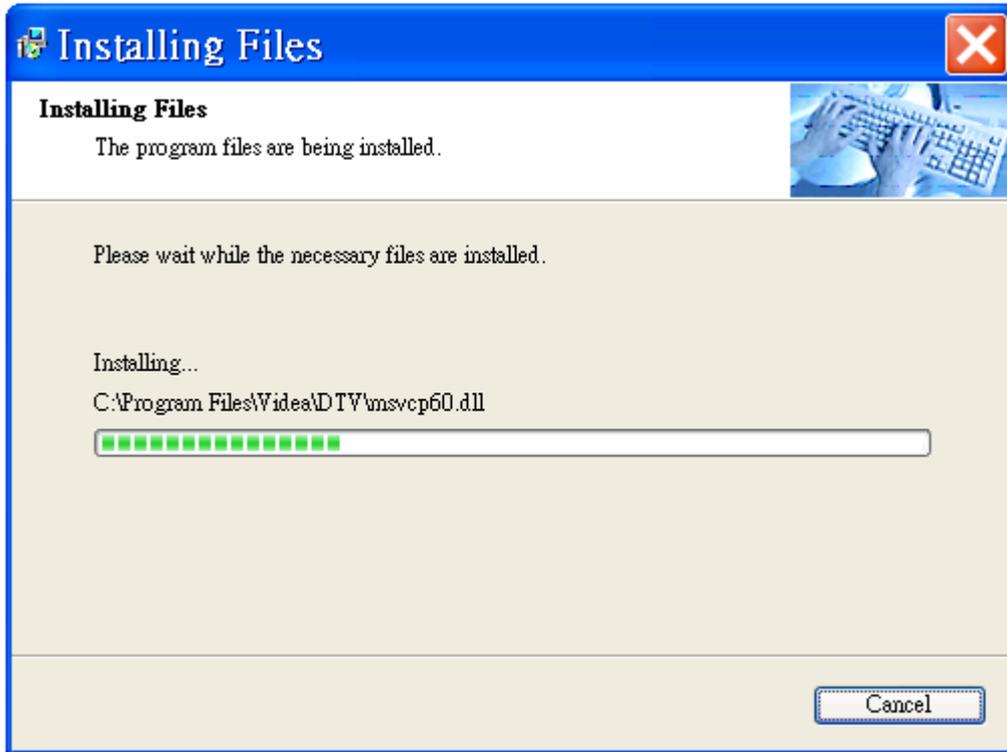
Press "Next" to continue the installation process.



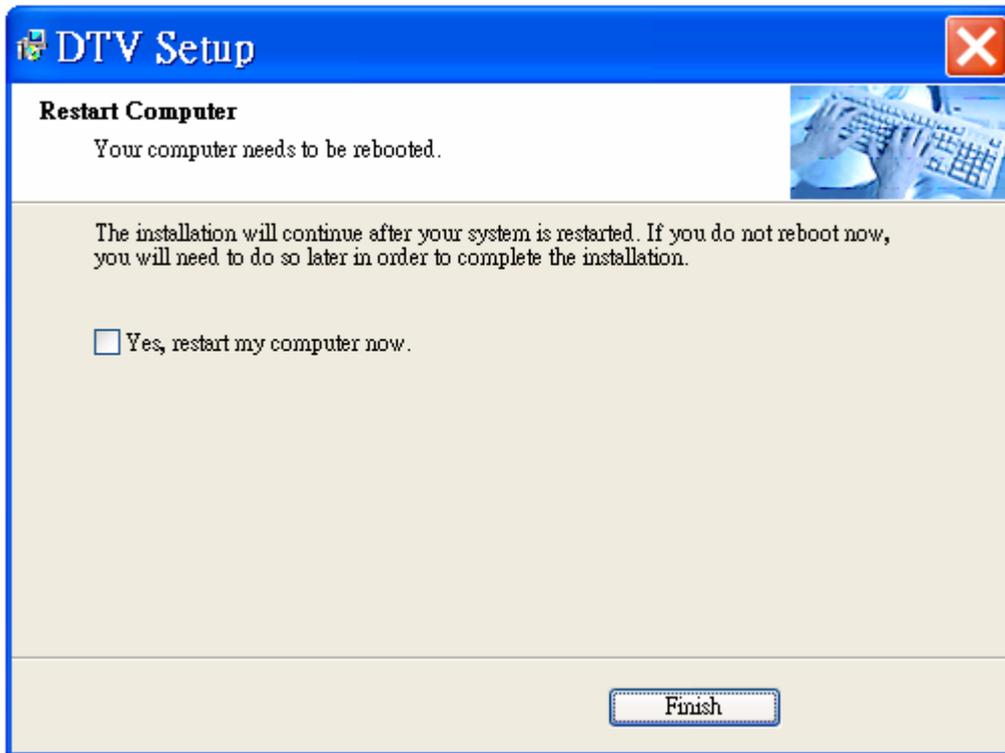
Setup your Shortcut Folder name



Press "Next" to continue the installation.



Program and driver installation is running.



Select **“Yes, restart my computer now”** to complete the whole installation process.

## 2.2 Hardware setup

After driver & program installation completed, please continue to finish the hardware setup.

- **Connecting USB cable to both PC & VDT-100**



“A type” USB to PC or NB



“B type” USB to VDT-100

- **Below notice windows will pop up after VDT-100 plug in**



Press “**Continue Anyway**” to continue hardware installation.



Press “**Continue Anyway**” to complete hardware installation.

*\*If “**New device found**” window pops up at the same time. Please press “**Cancel**” as well.*

- **Internal Antenna Adjustment**

Adjusting the length of the Rod antenna, will affect receiving signal quality.



Antenna Length	Receiving Frequency
20cm	350MHz
16cm	450MHz
13cm	550MHz
11cm	650MHz

- **Using internal antenna:**  
Fully pull out the antenna.

\* The length of the Rod antenna might affect the antenna sensitivity. Please check out the user manual for more detail setup.

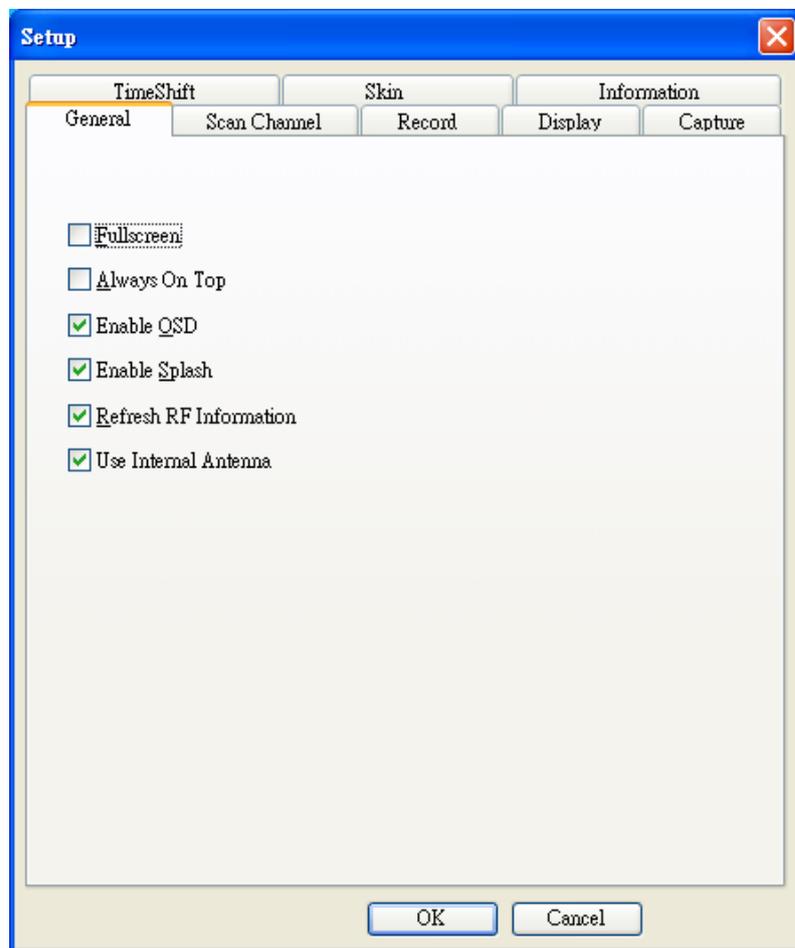
- **Using external antenna:**  
Open the “Setup” -> ”General” window, tick off “Using internal antenna”. Then put the antenna back to the original position.

The surround environment may affect the signal reception. (ex: buildings surround)  
So please place the antenna close to window side for better sign reception.



Please refer to the RF Power & the RF Quality indicating bars at the left side of the control panel on the screen, poor RF quality might result in no picture at all.

*\*When only internal antenna used, please tick on “**Use Internal Antenna**” in Setup window.*

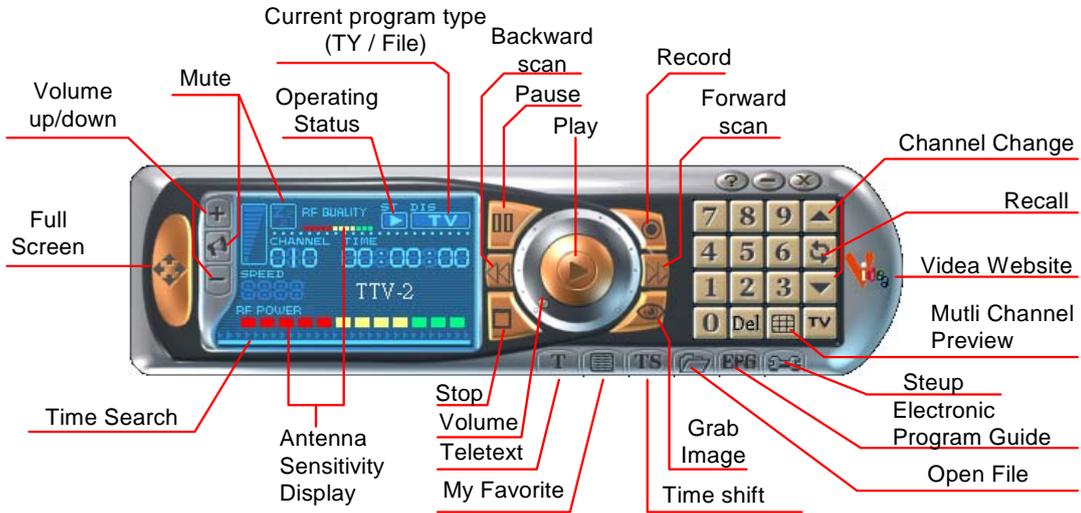




***Enjoy Videa 1 (VDT-100) digitizing your vision.***

### 3. Program Setup & Application

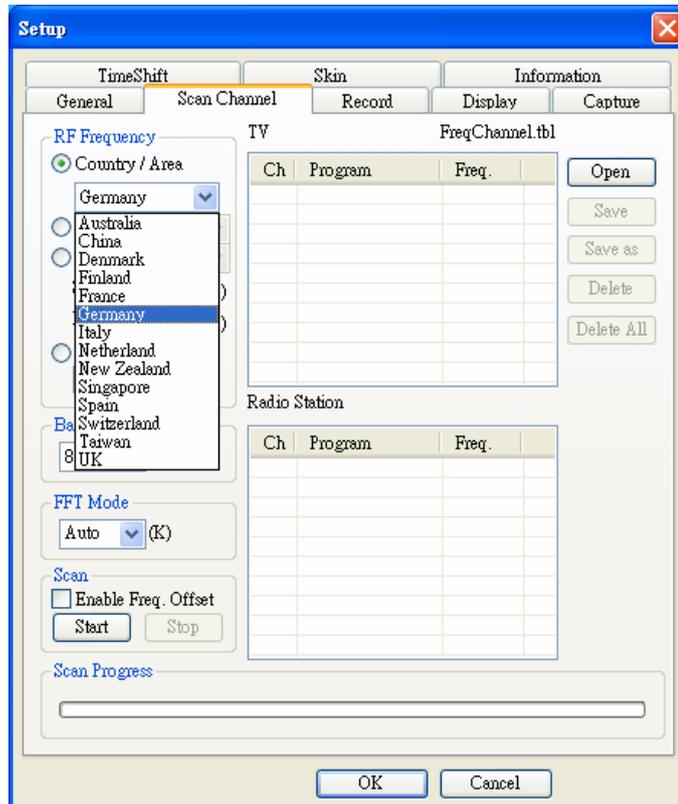
#### 3.0 Control Panel

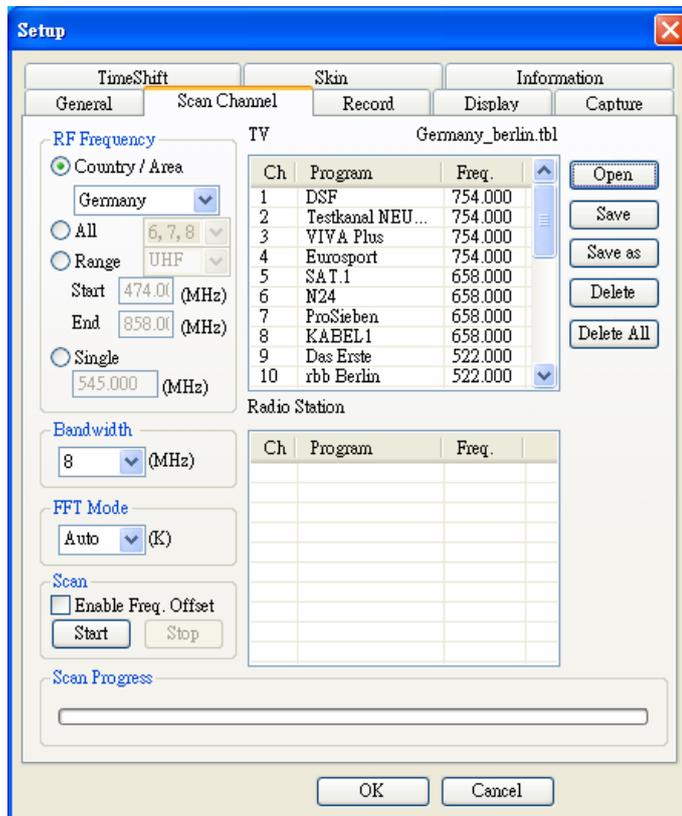
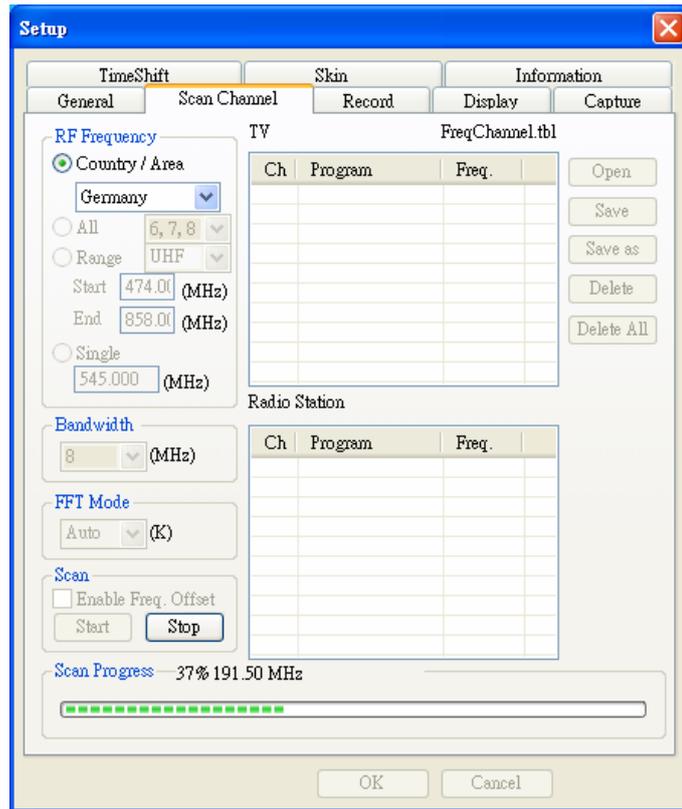


#### 3.1 Program Scanning

Press  to open “Setup” window and select to “Scan Channel”.

Point to “Country / Area” to select the location the VDT-100 settled. Click “Start” to scan programs. The “Bandwidth” will be automatically changed to the location that has been chosen.

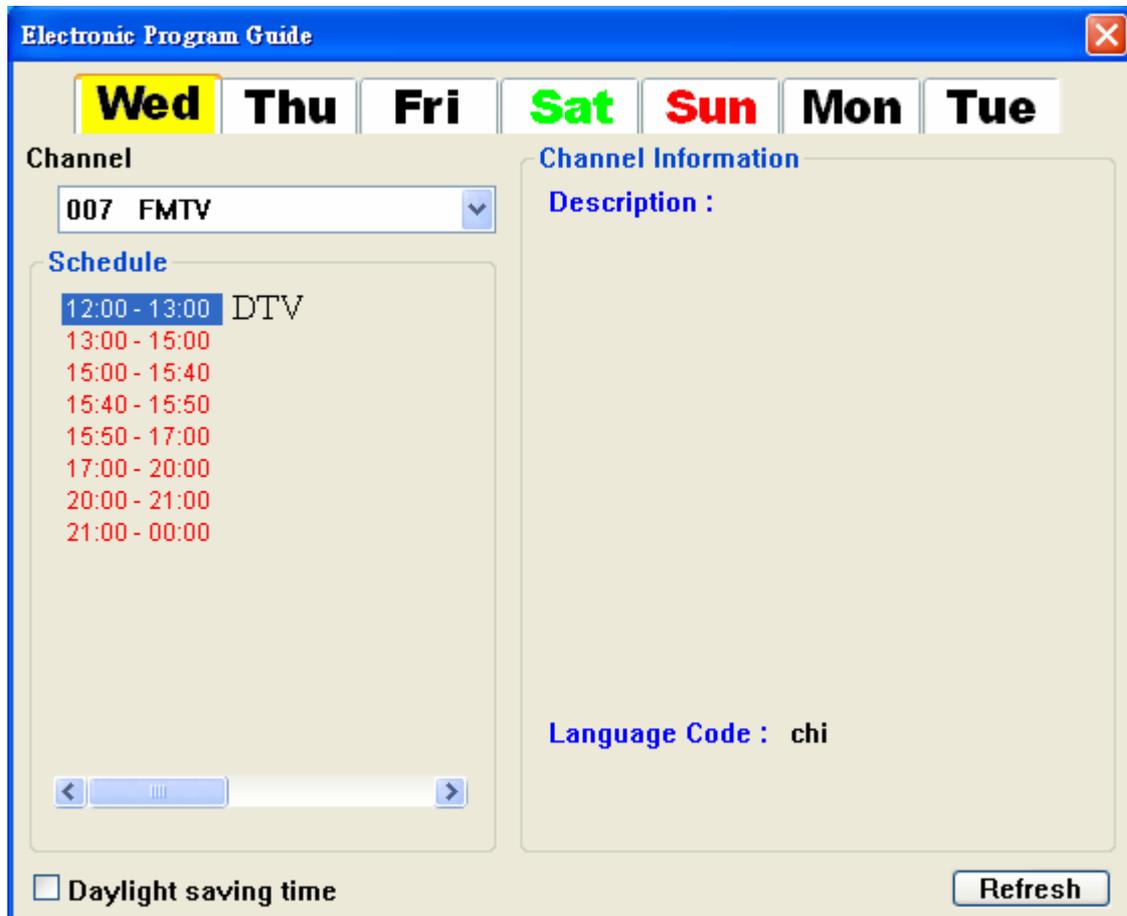




After all programs are scanned out, double click to the channel you want to watch.

### 3.2 EPG (Electronics Program Guide)

Press  to check all channels' program schedules.



- Choose watch channel to get programs' timetable and program description.

\* *This function is only available in certain countries.*

### 3.3 Program Recording

#### a. Normal recording:

Press  to start recording

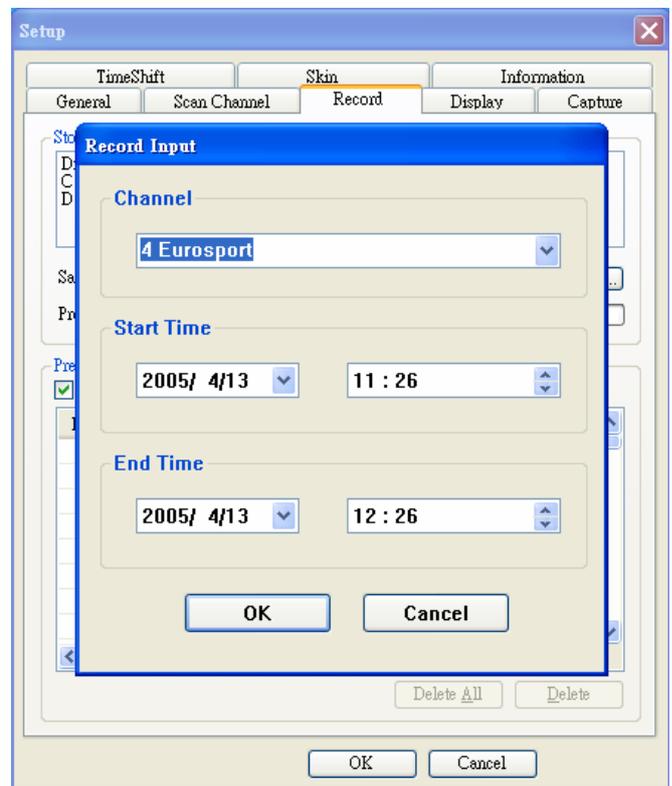
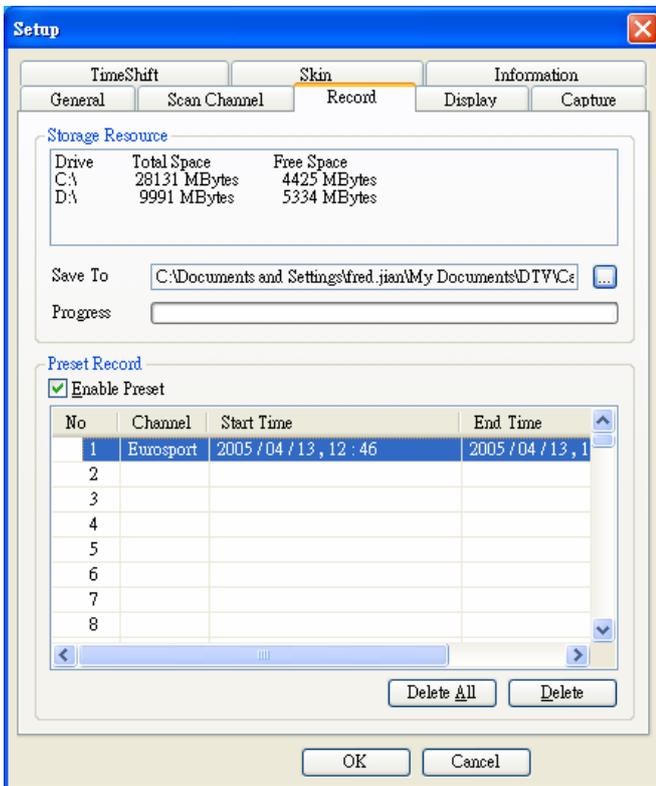
Then press  to view and open the records.

\* Records are saved under **“my document / DTV / capture”**.

#### b. Reserved recording:

Press  to open **“Setup”** window and select to **“Record”**.

Double click the schedule bar to set up channel and recording time.



### 3.4 Grab image

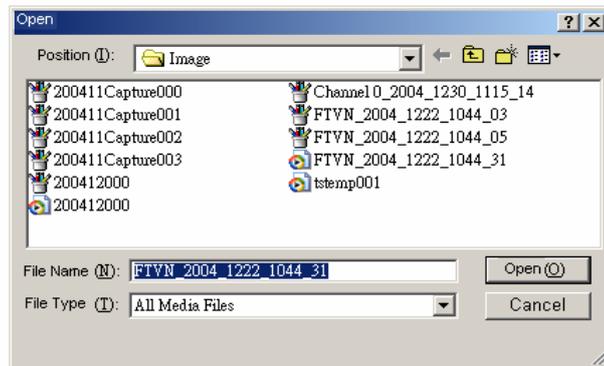
Press  to grab pictures from screen.

Then press  to view and open the records.

\* Records are saved under **“my document / DTV / capture”**.

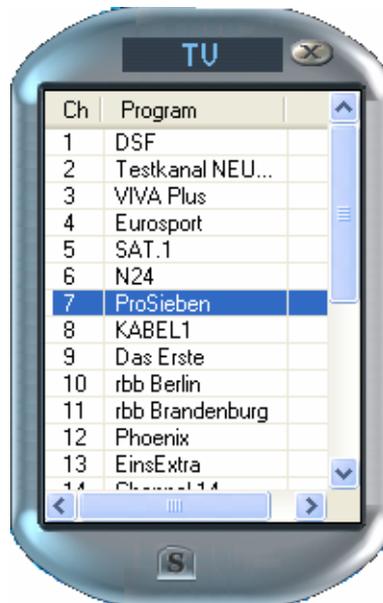
### 3.5 Open File

Press  to open files & choose any recorded programs, video or JPG file to watch.



### 3.6 My Favorite Bar

Press  to open below window. It displays scanned TV channels.



Press  to switch below models.

- TV
- Radio
- My favorite

### 3.7 Multi Channel Preview

Press  to preview multi channels



### 3.8 Teletext

Press  to start "Teletext" function.



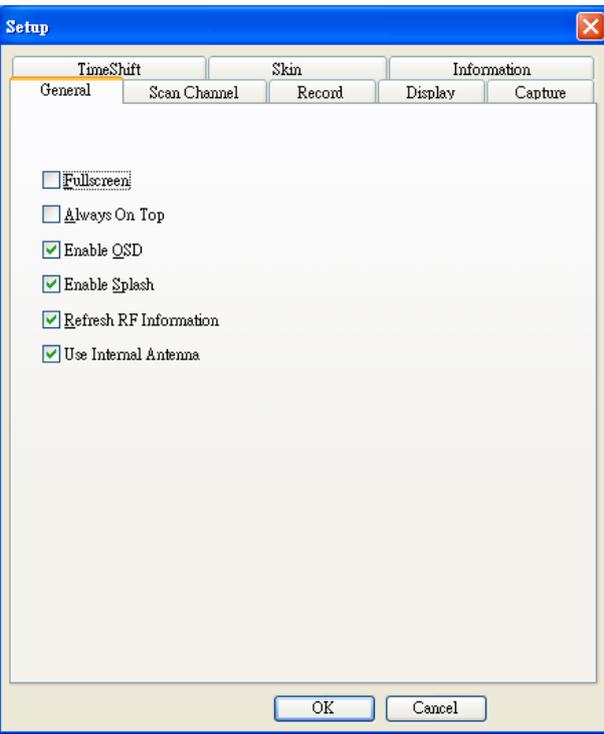
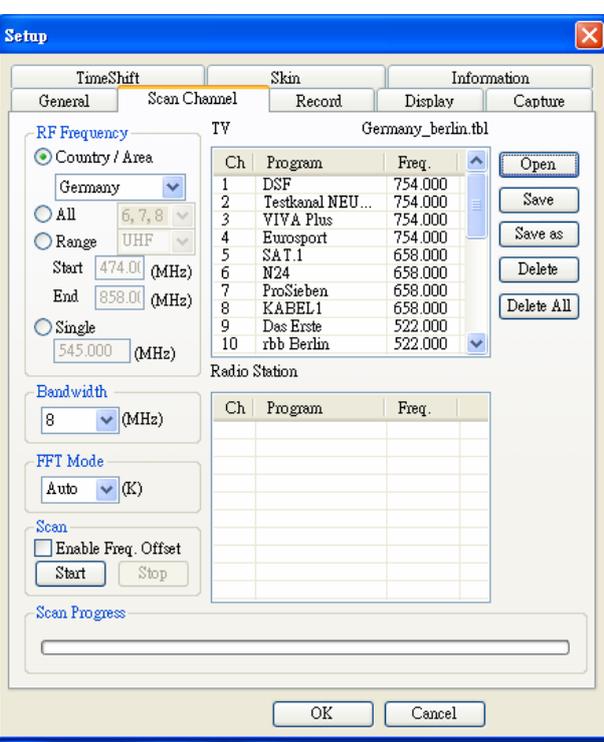
\* "Teletext" function is only available in certain areas.

## 4. Application Introduction

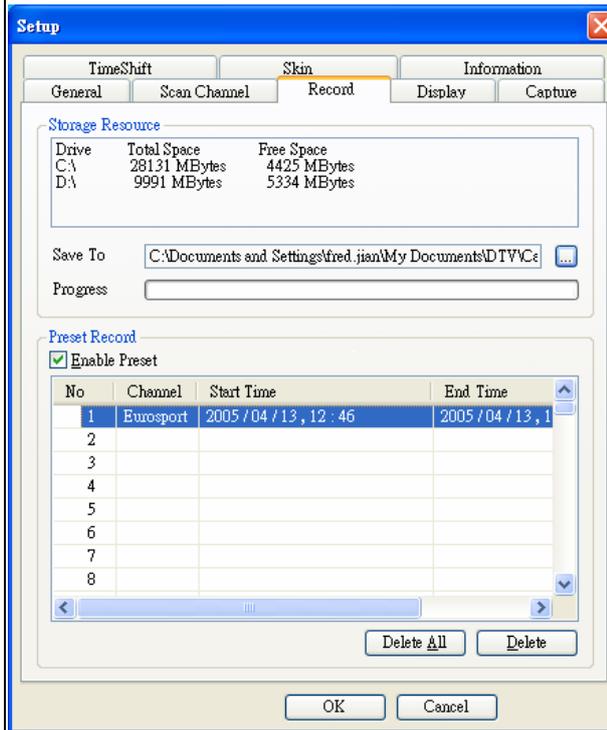
### 4.1 Right Click Menu

<u>P</u> lay	Enter	Play: Play programs
<u>P</u> ause	Space	Pause: Pause the current broadcasting
<u>S</u> top	S	Stop: Stop the current broadcasting
<u>R</u> ecord	R	Record: Record the current broadcast
<u>M</u> ute	M	Mute: Turn off the sound
<u>F</u> orward Scan	F	Forward Scan: Fasten the current broadcasting
<u>B</u> ackward Scan	B	Backward Scan: Rewind the current broadcasting
<u>N</u> ext CH	N / PageUp	Next CH: Next channel
<u>P</u> revious CH	P / PageDown	Previous CH: Previous channel
<u>R</u> ecall	L	Recall: Return to previous channel
<u>M</u> y Favorite	Ctrl+M	My Favorite: Favorite channel set up and list
<u>M</u> ulti-Channel Preview	Ctrl+W	Multi-Channel Preview: Preview multi channels
<u>A</u> udio Selection	Ctrl+L	Audio Selection: Select languages
<u>T</u> ime Shift	T	Time Shift: Start or stop the time shift function
<u>G</u> rab Image	G	Grab Image: Copy the image and save
<u>S</u> etup	E	Setup: Open the setup window
✓ <u>S</u> how Control Panel	O	Show Control Panel: Control panel display
<u>A</u> spect Ratio		▶ Aspect Ratio: Adjust screen size ratio (4:3 & 16:9)
<u>S</u> creen Size		▶ Screen Size: Adjust screen size (60%, 100%, 150%)
<u>F</u> ullscreen	W	Fullscreen: Make screen in full size
<u>V</u> olume <u>U</u> p	+	Volume Up: Volume up
<u>V</u> olume <u>D</u> own	-	Volume Down: Volume down
<u>M</u> inimize Faceplate	Ctrl+Z	Minimize Faceplate: Hide the control Panel
<u>A</u> bout	Ctrl+A	About: Version Information
<u>H</u> elp	H	Help: Help window display
<u>E</u> xit	Ctrl+X	Exit: Turn off VDT-100

## 4.2 Setup Window

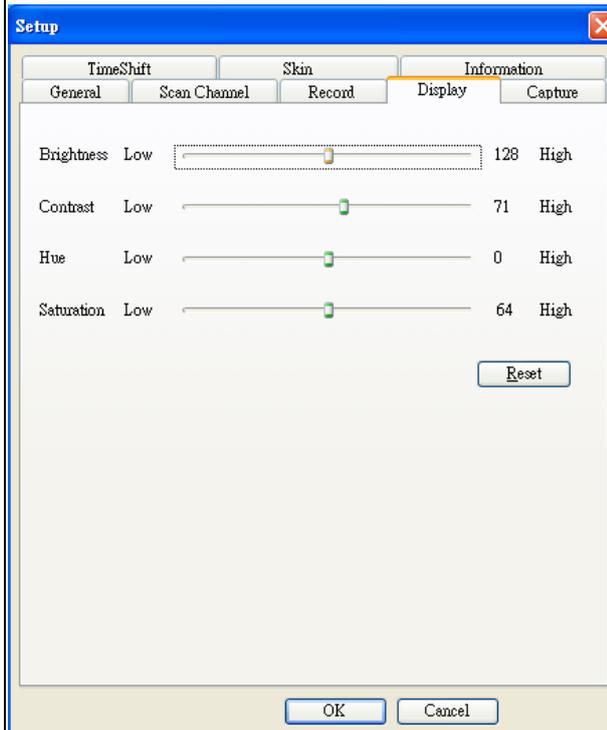
<h3>General</h3>		<ul style="list-style-type: none"> <li>● Fullscreen: Screen fully displayed</li> <li>● Always On Top: Screen always on top</li> <li>● Enable OSD: Command on screen</li> <li>● Enable Splash: Screen display</li> <li>● Refresh RF Information: RF information refresh display</li> <li>● Use Internal Antenna: Only click for using internal antenna</li> </ul>																																	
<h3>Scan Channel</h3>	 <table border="1" data-bbox="587 1182 868 1420"> <thead> <tr> <th>Ch</th> <th>Program</th> <th>Freq.</th> </tr> </thead> <tbody> <tr><td>1</td><td>DSF</td><td>754.000</td></tr> <tr><td>2</td><td>Testkanal NEU...</td><td>754.000</td></tr> <tr><td>3</td><td>VIVA Plus</td><td>754.000</td></tr> <tr><td>4</td><td>Eurosport</td><td>754.000</td></tr> <tr><td>5</td><td>SAT.1</td><td>658.000</td></tr> <tr><td>6</td><td>N24</td><td>658.000</td></tr> <tr><td>7</td><td>ProSieben</td><td>658.000</td></tr> <tr><td>8</td><td>KABEL1</td><td>658.000</td></tr> <tr><td>9</td><td>Das Erste</td><td>522.000</td></tr> <tr><td>10</td><td>rbb Berlin</td><td>522.000</td></tr> </tbody> </table>	Ch	Program	Freq.	1	DSF	754.000	2	Testkanal NEU...	754.000	3	VIVA Plus	754.000	4	Eurosport	754.000	5	SAT.1	658.000	6	N24	658.000	7	ProSieben	658.000	8	KABEL1	658.000	9	Das Erste	522.000	10	rbb Berlin	522.000	<ul style="list-style-type: none"> <li>● RF Frequency: Scanning by             <ol style="list-style-type: none"> <li>1. Country / Area</li> <li>2. Bandwidth: 6,7,8MHz</li> <li>3. Range: UHF / VHF</li> <li>4. Certain frequency: in range / single</li> </ol> </li> <li>● Bandwidth: 6, 7, 8MHz</li> <li>● FFT Mode: Auto / 2 / 8</li> <li>● Scan (Enable Freq. Offset): Scan frequency detailly.</li> <li>● Scan: Start / Stop</li> <li>● Channel (TV / Radio): Open / Save / Save as / Delete / Delete all</li> </ul>
Ch	Program	Freq.																																	
1	DSF	754.000																																	
2	Testkanal NEU...	754.000																																	
3	VIVA Plus	754.000																																	
4	Eurosport	754.000																																	
5	SAT.1	658.000																																	
6	N24	658.000																																	
7	ProSieben	658.000																																	
8	KABEL1	658.000																																	
9	Das Erste	522.000																																	
10	rbb Berlin	522.000																																	

## Record



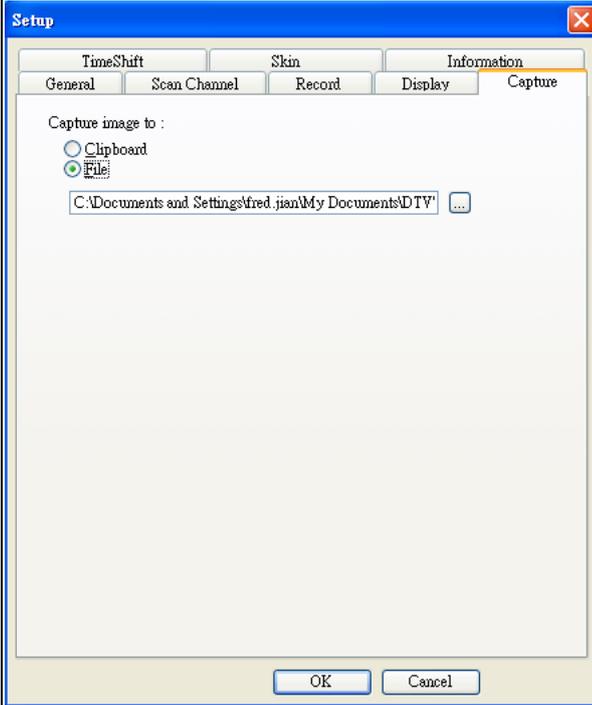
- Storage Resource
- Save to
- Preset Record: Reserved recording

## Display



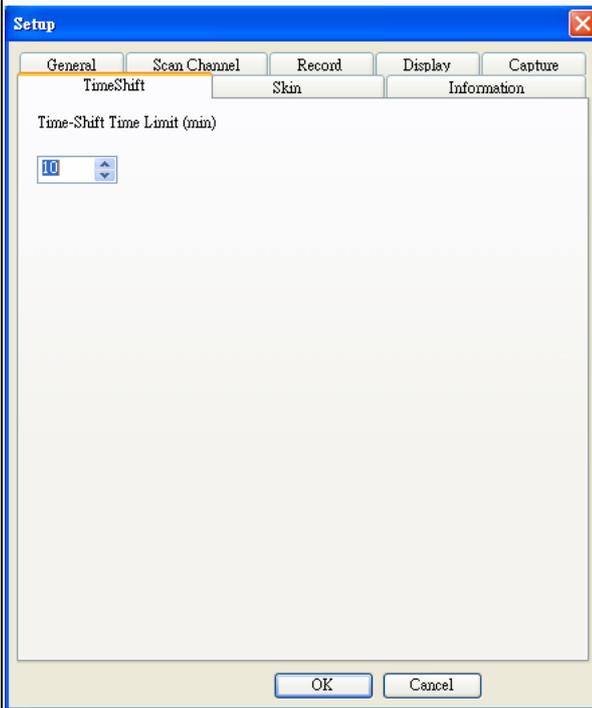
- Display Setting
  1. Brightness (0~255)
  2. Contrast (0~127)
  3. Hue (-128~127)
  4. Saturation (0~127)

## Capture



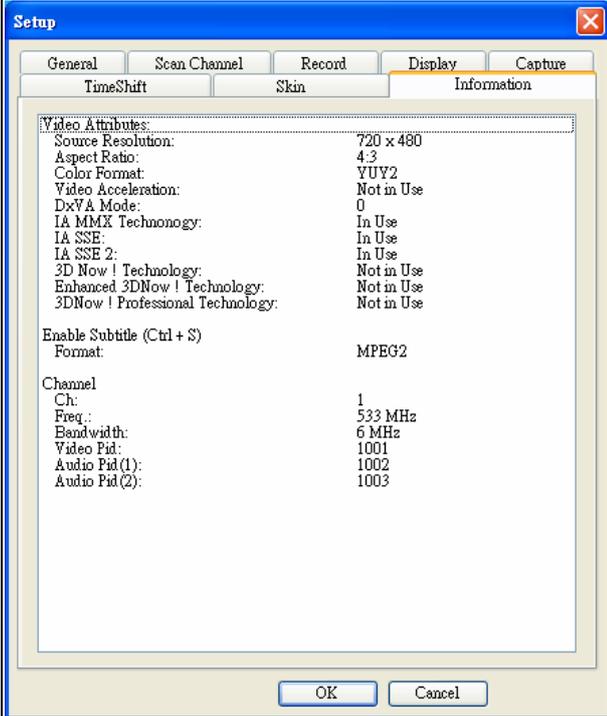
- Capture image (save) to:
  1. Clipboard
  2. File

## Time Shift



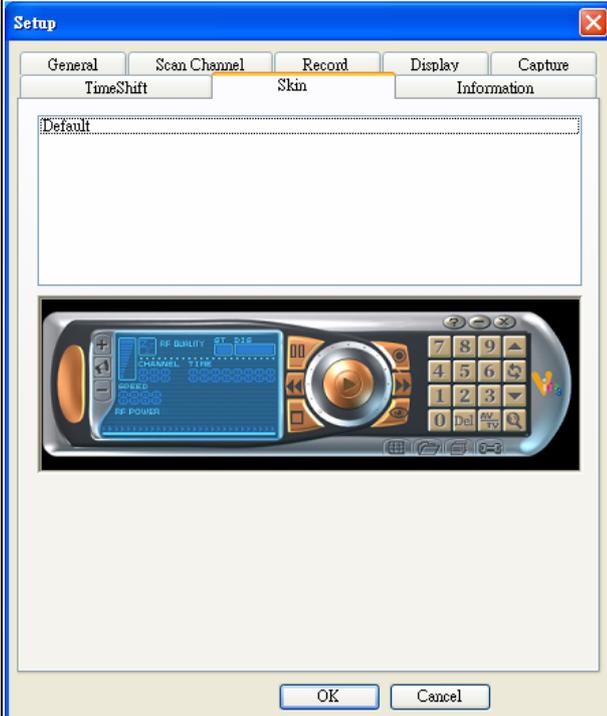
- Time-Shift limit (min): Time limit

# Information



# ● Status information

# Skin



# ● Control Panel Display

## 5. FAQ

### Q 1. “Capture device Failure” pops up in the screen.

**A:**1. Please re-plug the USB connector (B type) to the VDT-100.

2. In most cases, the problem is due to the driver installation. You may check the driver installation in the “**Device Manager**” of “**Windows Control Panel**”. In the device category “**Sound, Video and Game Controllers**”, there must be a device, which is named “**Videa USB DVB-T device**”. If the device is not found, please re-install the driver (refer to Chapter 2.2).

### Q 2. Unable to find any channel after auto scanning.

**A:** 1. Please make sure the area is under DVB-T signal coverage.

\*Please refer to DVB-T official website: [www.dvb-org](http://www.dvb-org)

2. Please check antenna by below steps.

- a. Make sure internal/external selected correctly (Setup -> General -> “Use Internal”). Internal antenna may need to be adjusted by its length.

*\*Please refer to chapter 2.2 internal antenna adjustments.*

- b. Move the device close to window or in correct position for better signal receiving.

3. Check Country/Area select (Setup -> Scan channel)

4. Select “Enable Freq. Offset” (Setup -> Scan channel) and rescan.

*\*This function is only suitable in certain countries.*

5. Make sure motherboard’s USB 2.0 port driver is the most update version.

### Q 3. Channel scanned well, but unable watch program

**A:** 1. Make sure RF power and RF quality bar at “**green level**”.

2. Make sure Window XP/2K driver update to latest version.

3. Make sure Microsoft DirectX 9.0 had been installed correctly.

*\*RF power/RF quality bar indicated signal strength, green level means signal received ok.*

4. VDT-100’s mobile mode is limited under 3km/hr speed. The signal won’t be acceptable while speedy moving.

### Q 4. Some TV or Radio channels unable found

**A:** 1. Please rescan or single scan (input missing frequency)

2. Make sure Window XP/2K driver update to latest version.

(Window XP SP2 / Windows 2000 SP4)

### Q 5. Video is playing, but sound does not work.

**A:** Please check the sound card driver and the volume setting.

**Q 6. While program running, sound works but nothing is displayed in the screen.**

**A:** Please make sure the VGA card & Microsoft DirectX 9.0 has been installed correctly.

**Q 7. The receiving signal strength is weak.**

**A: 1.** Make sure device's position can receive DVBT signal, sometimes need to move antenna more close to window to get more strong signal.

**2.** To enlarge receiving signal strength, please connect an external antenna into VDT-100. Please enquire to the shop where you bought the device.

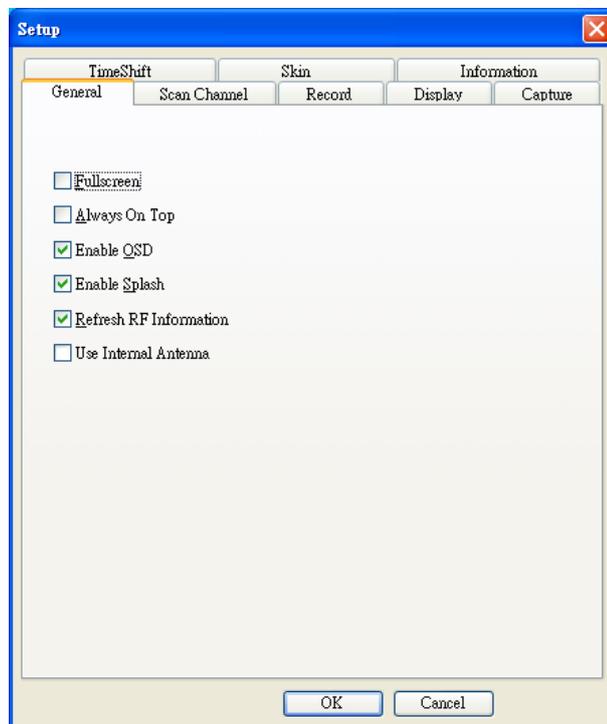


**External Antenna**



**Plug into VDT-100**

*\* When only external antenna used, please tick off **“Use Internal Antenna”** in Setup window.*



### Q 8. Recording files unable play.

A: Files are recorded in MPEG2 format, and only play with VDT-100's DTV Player.

### Q 9. DVB-T signal coverage search.

Australia		<a href="http://www.dba.org.au/index.asp?sectionID=22">http://www.dba.org.au/index.asp?sectionID=22</a>
➤ England		<a href="http://www.dtg.org.uk/retailer/coverage.html">http://www.dtg.org.uk/retailer/coverage.html</a>
➤ Finland		<a href="http://www.digitv.fi/sivu.asp?path=9:4710">http://www.digitv.fi/sivu.asp?path=9:4710</a>
➤ France		<a href="http://www.tvnt.net/couverture.php#2">http://www.tvnt.net/couverture.php#2</a>
➤ Germany		<a href="http://www.ueberall-tv.de/1home/UeF-home.htm">http://www.ueberall-tv.de/1home/UeF-home.htm</a>
➤ Holland		<a href="http://www.digitenne.nl/nodig/postcodecheck.asp">http://www.digitenne.nl/nodig/postcodecheck.asp</a>
➤ Taiwan		<a href="http://www.dvo.org.tw/e-wave/cts_search.asp">http://www.dvo.org.tw/e-wave/cts_search.asp</a>