

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
Video quality adjustment

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".

🕏 DTV Setup	
User Information Enter your user information and click Next to continue.	
Name: Jason Company:	
Videa	
< Back Next >	Cancel

Type in user information.

🖶 DTV Setup	
Serial Number Enter your serial number and click Next to continue.	
A serial number is required to continue this installation. Please type your s into the box below and click Next to continue.	erial number
Serial Number:	
< Back Next >	Cancel

Insert "Serial Number" which printed on the CD.

🖶 DTV Setup	×
Select a Language Please select a language that you want to install and click Next to continue.	The second se
Please select one of the following Languages: Dutch English French German Italian Spanish Traditional Chinese	
< Back Next > Cancel	

Select language.

🕏 DTV Setup	
Installation Folder Select an installation folder and click Next to continu	e.
The software will be installed in the folder listed belo either type in a new path, or click Change to browse :	w. To install to a different folder, for an existing folder.
Install DTV to:	
C:\Program Files\Widea\DTV	Change
Space required on drive:	1 K
Space available on selected drive:	821 MB
< Back	Next > Cancel

Press "Next " to continue the installation process.

# DTV Setup	
Shortcut Folder Select a shortcut folder and click Next to continue.	
Setup will add shortcut icons to the folder indicated below. If you don't want to default folder, you can either type a new name, or select an existing folder from	use the 1 the list.
Shortcut Folder:	
DTV	~
< Back Next >	Cancel

Setup your Shortcut Folder name

⊮DTV Setup	×
Ready to Install You are now ready to install DTV 1.0.	
The installer now has enough information to install DTV on your comput	er.
The following settings will be used:	
Install folder: C:\Program Files\Videa\DTV	
Shortcut folder: DTV	
Please click Next to proceed with the installation.	
< Back Next >	Cancel

Press "**Next** " to continue the installation.

Performing Setup Actions	
Setup Installation actions are now being performed.	
Please wait while setup actions are performed on your system.	
Creating uninstall	
	Cancel

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

Har dwa	re Installation
	The software you are installing for this hardware: USB adapter firmware loader has not passed Windows Logo testing to verify its compatibility with Windows XP. (Tell me why this testing is important.) Continuing your installation of this software may impair or destabilize the correct operation of your system either immediately or in the future. Microsoft strongly recommends that you stop this installation now and contact the hardware vendor for software that has passed Windows Logo testing.
	Continue Anyway STOP Installation

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	Receiving	
Length	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.

Setup				X
TimeShift Skin In		Infor	mation	
General ☐ Fullscree ☐ Always O ♥ Enable Q ♥ Enable S ♥ Refresh I ♥ Use Inter	Scan Channel In On Top (SD plash RF Information nal Antenna	Record	Display	Capture
		OK	Cancel	

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

3. Program Setup & Application

3.0 Control Panel

3.1 Program Scanning

Press et 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.

Setup				
TimeShift		Skin	Infor	mation
General Scan Cha	nnel	Record	Display	Capture
RF Frequency	TΥ		FreqChannel.tb	1
💿 Country / Area	Ch	Program	Freq.	Open
Germany Australia China Denmark Finland France Italy Netherland New Zealand				Save Save as Delete Delete All
Singapore Spain Ba Switzerland Taiwan 8 UK	Radio S	Station Program	Freq.	
Scan Enable Freq. Offset Start Stop Scan Progress				
OK Cancel				

TimeS	hift	l	Skin	Info	rmation
General	Scan Cł	annel	Record	Display	Capture
RF Frequenc	у	TV		FreqChannel.tt	ol
Country /	Area	Ch	Program	Freq.	Open
Germany	~				Save
) All	6, 7, 8 🗸				Save as
Start 474	1.00 MH2)				Delete
End 85	3.0((MHz)				Delete é ll
Single	(= ====,				Delete MI
545.000	(MHz)		24. s ⁻¹		
Bandwidth -		Radio	Station		
8 🗸	(MHz)	Ch	Program	Freq.	
FFT Mode					
Auto 🗸	(K)				
Scan					
Enable Fr	eq. Offset				
Start	Stop				
Scan Progres	s—37%191	.50 MH:	2		

Setup						
TimeShift		Skin	Info	mation		
General Scan Cha	annel	Record	Display	Capture		
-RF Frequency	TV	Ge	rmany_berlin.t	bl		
💿 Country / Area	Ch	Program	Freq.	Open		
Germany	1	DSF	754.000			
	2	Testkanal NEU	754.000	Save		
ОАЦ 6, 7, 8 🗸	3	VIVA Plus	754.000			
🔿 Range UHF 🗸	4	Eurosport	754.000	Save as		
Start 474.00 c.rrr.	5	SAT.1	658.000	Dalata		
Statt 474.00 (MHz)	6	N24	658.000	Delete		
End 858.0((MHz)	7	ProSieben	658.000	Delete All		
	8	KABEL1	658.000	Delete All		
Single	9	Das Erste	522.000			
545.000 (MHz)	10	rdd Berlin	522.000			
Bandwidth	Radio	Station		_		
8 V(MHz)	Ch	Program	Freq.	_		
TET Mede						
Auto (K)	-			-		
Scan				-		
Enable Freq. Offset						
Start Stop				_		
Scan Progress		!				
OK Cancel						

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

3.2 EPG (Electronics Program Guide)

Press **m** to check all channels' program schedules.

Electronic Program Guide						>
Wed Thu	Fri	Sat	Sun	Mon	Tue	
Channel		Channe	l Informatio	n		
007 FMTV	*	Descri	ption :			
Schedule						
12:00 - 13:00 DTV						
13:00 - 15:00						
15:00 - 15:40 15:40 - 15:50						
15:50 - 17:00						
17:00 - 20:00						
21:00 - 00:00						
		Lancus	ane Code :	chi		
		Langua	ige code .	CIII		
	>					
Daylight saving time					Refresh	

• 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 Start recording

Then press *to view and open the records.*

* Records are saved under "my document / DTV / capture".

b. Reserved recording:

Press et to open "Setup" window and select to "Record".

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

Setup 🔀	Setup 🗙
TimeShift Skin Information General Scan Channel Record Display Capture	TimeShift Skin Information General Scan Channel Record Display Capture
Storage Resource Drive Total Space Free Space C:\ 28131 MBytes 4425 MBytes D:\ 9991 MBytes 5334 MBytes Save To C:\Documents and Settings\fred jian\My Documents\DTV\Ce	Sto Record Input DC D Channel 4 Eurosport
Progress Preset Record	Pr Start Time Pre 2005/ 4/13 ▼ 11:26
No Channel Start Time End Time 1 Eurosport 2005 / 04 / 13 , 12 : 46 2005 / 04 / 13 , 1	End Time
3 4	2005/ 4/13 💌 12 : 26 🗘
6	
7	
8	
Delete <u>All</u> Delete	Delete <u>All</u> Delete
OK Cancel	OK Cancel

3.4 Grab image

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

	τυ	\otimes
Ch	Program	*
1	DSF	
2	Testkanal NEU	
3	VIVA Plus	
4	Eurosport	
5	SAT.1	
6	N24	
7	ProSieben	
8	KABEL1	
9	Das Erste	
10	rbb Berlin	
11	rbb Brandenburg	
12	Phoenix	
13	EinsExtra	~
4.4	Channel 14	
5		1
	S	

Press 🔝 to switch below models.

- a. TV
- b. Radio
- c. My favorite

3.7 Multi Channel Preview

Press III to preview multi channels

3.8 Teletext

Press to start "Teletext" function.

Teletext	
P + P - F + F - M + M - 1	00 Go
100 ZDFtext Fr 02.07.04 05:55: ~ t <&7)v3 Mit dem Zweiten o rs-&% sieht man besser +//!	34
K hler: "Wir werden es schaffen" Saddam dem Haftrichter vorgef}hrt Arbeitsreform:Clement sieht Wende Letzte Meldung	120 123 125 111
Fu~ball - EURO 2004: Dellas l{sst Griechenland jubeln Fans wollen Daum als DFB-Coach	204 209
05.30 ARD-Morgenmagazin 08.59 Heute im Parlament	361
Inhalt (A-Z) 101 Tour de France Nachrichten 112 Etappenvorschau Sport 200 Der Sendeplan Programm 300 Die Mannschaften	221 224 240
	Se

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

4. Application Introduction

4.1 Right Click Menu

	Play	Enter	Play: Play programs
	Pause	Space	Pause: Pause the current broadcasting
	Stop	S	Stop: Stop the current broadcasting
	<u>R</u> ecord	R	Record: Record the current broadcast
	<u>M</u> ute	М	Mute: Turn off the sound
	Forward Scan	F	Forward Scan: Fasten the current broadcasting
	Backward Scan	В	Backward Scan: Rewind the current broadcasting
		N ID II	Next CH: Next channel
	Next CH	N / PageUp	Previous CH: Previous channel
	Previous CH	r/rageDown	Recall: Return to previous channel
	My Feyorite	L CtrluM	My Favorite: Favorite channel set up and list
	Multi-Channel Preview	Ctrl+W	Multi-Channel Preview: Preview multi channels
	1.1.1.12 0.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1		Audio Selection: Select languages
	Audio Selection	Ctrl+L	
	Time Shi <u>f</u> t	Т	Time Shift: Start or stop the time shift function
	<u>G</u> rab Image	G	Grab Image: Copy the image and save
	S <u>e</u> tup	Е	Setup: Open the setup window
V	Show Control Panel	0	Show Control Panel: Control panel display
	Aspect Ratio	+	Aspect Ratio: Adjust screen size ratio (4:3 & 16:9)
	Screen Size	+	Screen Size: Adjust screen size (60%, 100%, 150%)
	Fullscreen	w	Fullscreen: Make screen in full size
	Volume Up	+	Volume Up: Volume up
	Volume <u>D</u> own	-	Volume Down: Volume down
—	-	CH1/7	Minimize Faceplate: Hide the control Panel
	Minimize Faceplate	Ctri+Z	About: Version Information
	About Vola	U UIIIA	Help: Help window display
	<u>n</u> eip	n Ctrl+X	Exit: Turn off VDT-100
	1571	CurrA	

4.2 Setup Window

General	Setup TimeShift Skin Information General Scan Channel Record Display Capture Ulssneen Always On Top Enable QSD Enable Splash Refresh RF Information Use Internal Antenna OK Cancel	 Fullscreen: Screen fully displayed Always On Top: Screen always on top Enable OSD: Command on screen Enable Splash: Screen display Refresh RF Information: RF information refresh display Use Internal Antenna: Only click for using internal antenna
Scan Channel	Setup Information General Scan Channel Record Display Capture RF Frequency TV Germany_berlin.tbl Open Country / Area Ch Program Freq. Open All 5.78 Ch Program Freq. Open All 5.78 The Eucopot 754.000 Save Save Start 474.01 (MHz) Save as Delete Delete Single Station 6 N22.2000 Delete All Delete All Delete All Scan Station Station Station Station Delete All Delete All FFT Mode MHz) Ch Program Freq. Delete All Delete All Scan Enable Freq. Offset Stati Stop Scan Delete All Delete <	 RF Frequency: Scanning by Country / Area Bandwidth: 6,7,8MHz Range: UHF / VHF Certain frequency: in range / single Bandwidth: 6, 7, 8MHz FFT Mode: Auto / 2 / 8 Scan (Enable Freq. Offset): Scan frequency detailly. Scan: Start / Stop Channel (TV / Radio): Open / Save / Save as / Delete / Delete all

Information	Setun 🗙	•	Status information
	General Scan Channel Record Display Capture TimeShift Skin Information Yideo Attributes: 720 x 480 Source Resolution: 43 Color Format: YUY2 Yideo Acceleration: Not in Use DXVA Mode: 0 IA MMX Technonogy: In Use IA SSE : In Use JA SSE : In Use SDNow ! Technology: Not in Use SDNow ! Professional Technology: Not in Use Enable Subtitle (Ctul + S) Format: Format: MPEG2 Channel Ch: Ch: 1 Freq: 533 MHz Budio Pid(1): 1002 Audio Pid(2): 1003		
Skin	Setup General Scan Channel Record Display Capture TimeShift Skin Information Default	•	Control Panel Display
	OK Cancel		

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.
 - 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 "<u>Videa</u> <u>USB DVB-T device</u>". 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: <u>www.dvb-org</u>
 - 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 unalbe 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.

