

User Manual

VANQUISH RT videoPRO



The latest versions of manual, drivers and applications are available on www.pentagram.eu

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REMARKS**Storage**

- Please avoid placing Vanquish RT Video PRO directly in the sunshine or dusty place.
- Please avoid dropping or impact upon Vanquish RT Video PRO.
- Don't let liquid or objects into Vanquish RT Video PRO.

Cleanup

- Don't use chemicals, such as gasoline or other diluents, upon Vanquish RT Video PRO's surface.
- Please avoid dropping or impact upon Vanquish RT Video PRO.
- Don't let liquid or objects into Vanquish RT Video PRO.

Battery

- When start using the unit, please fully charge and discharge the battery for about 2 - 3 times to ensure maximum battery life and power capacity.
- Please do not dispose the unit into fire to avoid the battery exploding.
- Please do not disassemble any part of the unit, any unauthorized disassembling will cause termination of PENTAGRAM official warranty.

Usage

- Please don't use wet hand to plug/unplug or contact Vanquish RT Video PRO for preventing shock or damage.
- Please don't unplug Vanquish RT Video PRO while data is being transferred to/from the computer, otherwise the data may be lost.
- Please don't judder, otherwise Vanquish RT Video PRO may be damaged.
- Please ensure that Vanquish RT Video PRO has enough free space to save the new recorded files before recording.

Others

- The folders named as "RECORDER", "PHOTO", "MOVIE", "EBOOK" and "MUSIC" are system folders for recorded files, pictures, video files, eBook and tracks.
- "F***WAV" / "V***WAV" are auto-generated default titles for FM and MIC recorded files. "****" Presents numbers as 0-9.
- Files or data stored in Vanquish RT Video PRO cannot completely avoid being destroyed or lost due to improper use or other reasons. Please backup files and data when necessary.

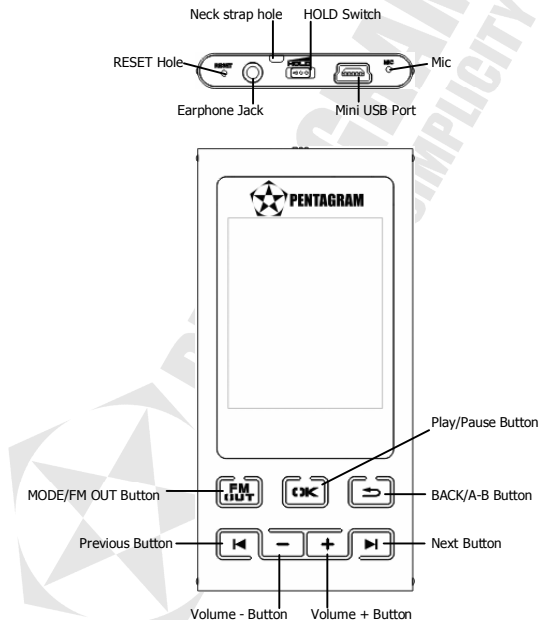
INTRODUCTION

Thank you for purchasing PENTAGRAM Media Player (Vanquish RT Video PRO). Media Player is a new type of portable digital music player, it perfectly combines FM transmitting, digital audio & video playing, recording, FM tuner and photo/eBook browsing, etc.

Features

- Support FM transmitting
- Built-in rechargeable lithium battery
- Intelligent charge technology
- Support MP3 and WMA files
- Support multiple sound modes and playback modes
- Support A-B repeat
- Lyrics (LRC file) displays synchronously
- Support SMV video files
- Support BMP and JPG files
- Built-in FM tuner, Support FM and MIG recording
- Supports eBook browsing
- Effectively prevent misoperation with **HOLD** switch
- Firmware upgradable
- No driver installation except on Windows 98/98SE

Appearance And Buttons



USAGE ON COMPUTER

Utilities installation

Vanquish RT Video PRO Utilities includes Vanquish RT Video PRO driver (Especially for users on Windows *98/98SE*) and Vanquish RT Video PRO Update Tool (PENTAGRAM MP3 Firmware Download).

The installation steps of Vanquish RT Video PRO Utilities are as the following:

1. You can download the Utilities from <http://www.pentagram.eu> for installation.
2. Double click the installation file "Setup.exe", the system would install Vanquish RT Video PRO Utilities automatically.
3. The tool would appear in "Programs" of "Start" after being installed.

Connecting With The Computer

Vanquish RT Video PRO can be connected with the computer through USB cable. Connect standard port of USB cable to the computer, mini port to Vanquish RT Video PRO.

Data Transferring

1. Boot your computer and connect Vanquish RT Video PRO with the computer.
2. The screen of Vanquish RT Video PRO would display "READY" after being connected.
 - W Windows 98/98SE/Me/2000/XP/Server 2003: Double click "My Computer", you would find a new icon named "Removable Disk" (fig.1), representing Vanquish RT Video PRO.



fig. 1

- Mac OS 10.2 or above (Mac OS 10.3.2 e.g.): A new icon named "NO_NAME" (fig.2) would appear on the desktop of your computer, representing Vanquish RT Video PRO.



fig. 2


- Linux 2.4.2 or above: Enter the system by user I D "root" and input the command "mount *Idev/sda Immnt*". This command is to create a directory where Vanquish RT Video PRO would be mounted.

Note: "sda" is an unfixed input item, please make relevant changes according to Linux operating discipline.

3. Then you can copy, delete or edit data, just as on a traditional hard disk. While transferring data from Vanquish RT Video PRO to the computer, the screen of Vanquish RT Video PRO displays "READING", while transferring data from the computer to Vanquish RT Video PRO, the screen of Vanquish RT Video PRO displays "WRITING".

Disconnecting

Please refer to the following steps to unplug Vanquish RT Video PRO:

1. **Windows 98/98SE:** Unplug Vanquish RT Video PRO from USB port of the computer while the screen of Vanquish RT Video PRO prompts "READY".
2. **Windows Me/2000/XP/Server 2003** (Windows 2000 e.g.): Click the icon  at the taskbar, then click the "Stop USB Mass Storage Device - Driver", and click "OK" button in the pop-up window "The 'USB Mass Storage Device' device can now be safely removed from the system", then you can disconnect Vanquish RT Video PRO from the computer safely.
3. **Mac OS 10.2 or above (Mac OS 10.3.2 e.g.):** Select the icon representing Vanquish RT Video PRO, click "File", select "Exit NO NAME", then unplug Vanquish RT Video PRO from the computer.
Tips: Please drag Vanquish RT Video PRO icon into Trash, then unplug it from the computer.
4. **Linux 2.4.2 or above:** Input the command "umount /mnt" before unplugging Vanquish RT Video PRO. The "/mnt" directory is corresponding with the "/mnt" mentioned above.

BASIC OPERATIONS

Battery



The battery is full.



The battery is exhausted.

1. **Charge:** You can charge the battery of Vanquish RT Video PRO by connecting it with the computer through USB cable, or connecting it with the cigar-lighter of car through car adapter. When Vanquish RT Video PRO was charging through car adapter, Vanquish RT Video PRO would support all operations mentioned in "Usage of Vanquish RT Video PRO" (Except for data transferring between Vanquish RT Video PRO and your computer).
2. **Intelli-charge:** If the voltage is less than 3.7V, you can charge the battery of Vanquish RT Video PRO by connecting it with the computer, and vice-versa, you can charge the battery by locking **[HOLD]** switch for intelli-charge.
3. **Usage of charging by cigar-lighter of car:** Please refer to fig.3 to connect Vanquish RT Video PRO with the cigar-lighter of car.

Note: PENTAGRAM is not responsible for any loss arising out of using this cigar-lighter of car.



Car cigar-lighter
fig. 3

Keystroke Definitions

Hold: The time of keystroke is about 2 seconds.

Press: The time of keystroke is less than 1 second.

Power On/Off

- To turn on Vanquish RT Video PRO, please hold [OK] button, Vanquish RT Video PRO will enter the main menu automatically.
- To turn off Vanquish RT Video PRO, please hold [OK] button in playing/pause/stop mode (except for recording/paused recording status) after being turned on.
- When Vanquish RT Video PRO is in non-USB mode, Vanquish RT Video PRO will turn itself off automatically if there is no operation during the time, which can be set in "Setup -> Power Set". (Please refer to "Setup" for details.)

Hold

This function is used to prevent the buttons from being operated accidentally.

To lock all buttons please simply lock **[HOLD]** switch, a lock icon will appear on the screen, and no button would be able to operate. To release the lock status, please unlock **[HOLD]** switch.

If try to turn on while **[HOLD]** switch is locked, Vanquish RT Video PRO will turn off automatically shortly after prompting "Key Locked", please unlock **[HOLD]** switch, then try again.

RESET

If Vanquish RT Video PRO doesn't respond to any operation, poke the "RESET Hole" where on Vanquish RT Video PRO to turn off.

You need to turn on Vanquish RT Video PRO again to complete the reset process. The settings of Vanquish RT Video PRO would return to the last effective settings before restarting, and all files saved in Vanquish RT Video PRO may be lost.

Firmware update

You can download the latest update utilities from our website <http://www.pentagram.eu> to update Vanquish RT Video PRO. You can also use attached CD disk. The steps are as the following:

1. Please uninstall previous " Vanquish RT Video PRO " software in your computer at first, then double click the download file "Setup.exe", it would install new utilities automatically.
2. Run "Start -> Programs -> Vanquish RT Video PRO -> Vanquish RT Video PRO Firmware Download", click "Start" button in the " Vanquish RT Video PRO Firmware Download" window to begin update. It would display "Complete" after finishing, click "Close" button (fig. 4), then unplug Vanquish RT Video PRO from the computer to finish.
3. You can click the check box of "Format Data Area" in the window, click "Yes" button on the question bar (fig. 5) to confirm. Vanquish RT Video PRO would delete all data saved in Vanquish RT Video PRO while formatting, please backup the data first if necessary!
4. Click "Start" button to begin format. The window would display "Complete" after finishing, click "Close" button to finish.





fig. 4



fig. 5

USAGE OF VANQUISH RT VIDEO PRO

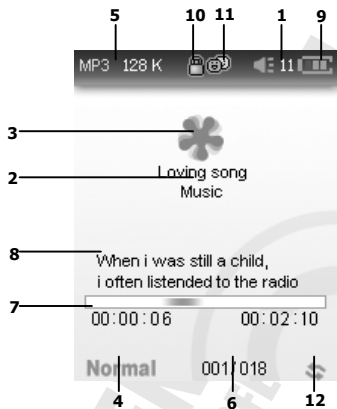
You can select Music, Movie, Photo, eBook, FM, Recorder, File, and Setup in main menu. The operations and settings would be introduced as the following.

Keystroke operations:

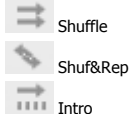
- Press [⏪/⏩] button to select menu.
- Press [OK] button to enter.
- Press [BACK/A-B] button to return to previous menu.

Music

- Press [⏪/⏩] button to select MUSIC in main menu, press [OK] button to enter.
- Press [⏪/⏩] button to select item, press [OK] button to confirm.



- | | |
|---|----------------------------------|
| 1. Volume | 6. Track Number and Total Number |
| 2. Track Name and Artist name | 7. Elapse Time/Total Time |
| 3. Playing Status
(Playing/Pause/Stop/Rewind/Forward) | 8. Lyrics Show |
| 4. Equalizer (NOR: Normal, ROC: Rock, JAZ: Jazz, CLA: Classic, POP: Popular, DBB: Bass) | 9. Battery |
| 5. Track Format and bitrate | 10. Lock Status |
| | 11. A-B Repeat |
| | 12. Play Mode |



Play/Pause/Stop:

- Press [OK] button to play track.
- Press [OK] button to pause track.
- Hold [OK] button to stop playing in playing/pause status.

Rewind/Forward:

- Continuous hold [⏮/⏭] button to rewind/forward the track.

Select Track:

- Press [⏮/⏭] button to switch to previous/next track.

Volume:

- Press [Volume+/-] button to turn up/down the volume.

Switching Equalizer:

- Press [MODE/FM OUT] button to switch EQ.

A-B Repeat:

- Please hold [BACK/A-B] button twice to decide A (start) point and B (end) point while in playing status, Vanquish RT Video PRO would play the track between A and B repeatedly. Hold [BACK/A-B] button again to exit A-B repeat.

Lyric Show

1. Copy the track and the LRC file into the same folder.
2. Make sure the name of the LRC file is the same as the name of the track, otherwise the lyrics can not be displayed.
3. Lyrics will be shown synchronously in the "Lyrics Shows" area of the screen during playing.


Movie

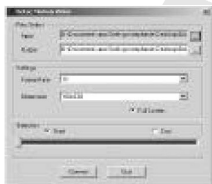
Press [⏪/⏩] button to select MOVIE in main menu, and press [OK] button to enter.



1. Press [⏪/⏩] button to select video file, press [OK] button to play.
2. Press [OK] button to pause/resume.
3. Press [⏪/⏩] button to select and play previous/next video file.
4. Press [⏪/⏩]] button to rewind/forward.
5. Press [Volume+/-] button to turn up/down the volume.
6. Press [BACK/A-B] button to return to Movie menu.

MTV Convert Tool

MTV convert tool can convert video files (AVI, MPG, WMV) into SMV files that Vanquish RT Video PRO supports. You can download the MTV convert tool from our website www.pentagram.eu. The converting steps are as the following:

1. Double click the file "vide02smv.exe".
2. Press the icon  where beside "Input" to choose the file which you want to convert.



3. Press the icon  where beside „Output“, to choose the location where you want to save the converted file.
4. Press the icon  where beside "Frame rate", to select the frame rate of the converted file.



5. If you don't want to convert whole process of the file, you can select "Start" or "End" check box in "Selection" option, and drag the scroll bar to select the appropriate place where you want to convert.
6. Press "Convert" button to start.
7. Press "Quit" button to finish.

Note:

- *Please make sure that you have installed DirectX 8.0 or above before conversion.*
- *The tool contains copyright by author, please respect the copyright. PENTAGRAM is not responsible for any infringed copyright by user that out of using these tools.*

Photo

- Press [⏪/⏩] button to select PHOTO in main menu, and press [OK] button to enter.
- Press [⏪/⏩] button to select browsing mode: "Manual" or "Slide Show", Press [110] button to confirm and begin to browse.

**Manual:**

1. Press [◀/▶] button to browsing previous/next photo.
2. Press [Volume+] button to zoom in, press [◀/▶] button to left/right shift, press [Volume-] button to return to actual size.
3. After zooming in, press [MODE/FM OUT]] button to switch to shift up/down mode, press [Volume+/-] button to shift up/down.

Slide Show:

1. Vanquish RT Video PRO would switch the photo automatically, you can also switch the previous/next photo manually by pressing [◀/▶] button.

Note: Vanquish RT Video PRO supports BMP and JPG files, resolution of which is less than 1024 x 768 pixels.

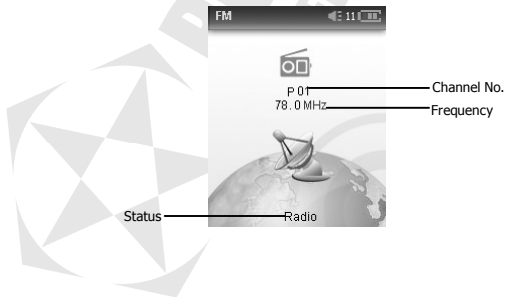
Ebook

Press [◀/▶] button to select EBOOK in main menu, press [OK] button to enter.

1. Press [◀/▶] button to select item, press [OK] button to confirm.
2. Press [◀/▶] button to page up/down while browsing.
3. Press [**BACK/A-B**] button to return eBook menu.

FM

Press [◀/▶] button to select FM in main menu, press [OK] button to enter.



Press **[MODE/FM OUT]** button to switch among Radio, Scan, Store, Recording and Return under FM menu. The Operations are as the following:

1. Radio: Press [OK], button to pause/resume the receiving program, you can also switch channel by pressing [**⏪/⏩**] button if there is more than one channel saved, and press [**Volume+/-**] button to turn up/down the volume.
2. Scan: Vanquish RT Video PRO can save maximum 30 channels.

Automatic Scanning: Press [OK] button to start searching automatically, Vanquish RT Video PRO would save the searched channels automatically, and the screen would display "Auto Scanning ...".

Manual Scanning: Press [**⏪/⏩**] button to search channel ahead/backwards by 0.1 MHz manually in receiving status.

3. Store: Press [OK] button to save channel after automatic/manual scanning, the screen would display "Saved".
4. Recording: Press [OK] button to start FM recording, press [OK] button to pause/ resume during recording, press [**BACK/A-B**] button to exit and Vanquish RT Video PRO would save the recorded file in "RECORDER" folder automatically.
5. Return: Press [OK] button to return to main menu.

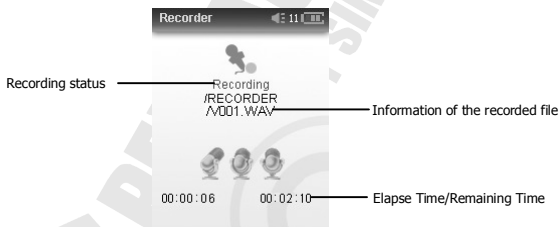
Note: Vanquish RT Video PRO would scan and save channel(s) automatically when enter FM menu for the first time. It is suggested to connect the earphone with Vanquish RT Video PRO for better scanning.

Recorder

Press [⏪/⏩] button to select RECORDER in main menu, press [OK] button to enter. Press [⏪/⏩] button to select "Recorder", "Replay", or "Exit", and press [OK] button to confirm.

Recorder:

Press [OK] button to enter recorder menu.



1. Press [OK] button to pause/resume recording.
2. Press [**BACK/A-B**] button to end and Vanquish RT Video PRO would save the recorded file in "RECORDER" folder automatically.

Replay:

1. Press [OK] button to enter replay menu.
2. Press [◀/▶] button to select recorded file, press [OK] button to play.



The operations are the same as music playing (except for switching EQ by pressing [**MODE/FM OUT**] button), please refer to "Music" for details.

File

Press [◀/▶] button to select FILE File in main menu, press [OK] button to enter.

1. Press [◀/▶] button to select item which you want to delete, press [OK] button to confirm.
2. Press [OK] button to enter popup menu. Press [◀/▶] button to select "Yes/No/ Return", press [OK] button to confirm, select "Yes", press button to confirm and the screen would display "Success", select "No" or "Return", press [OK] button to confirm and return to previous menu.
3. Press [**BACK/A-B**] button to return to previous menu.

Setup

Press [◀/▶] button to select SETUP in main menu, press [OK] button to enter.

Keystroke Operations:

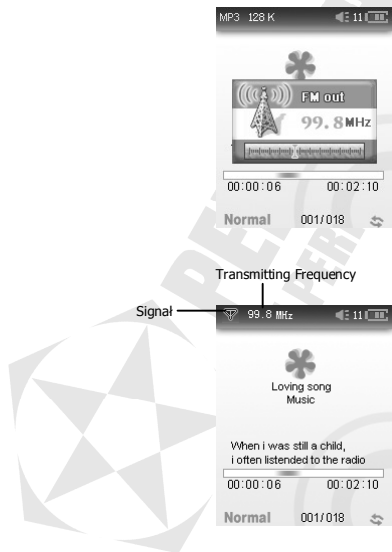
1. Press [◀/▶] button to select item in settings menu.
2. Press [OK] button to enter.
3. Press [◀/▶] button to set.
4. Press [OK] button to confirm.

You can set the following items in "Setup" menu:

Item	Description
EQ Set	There are 6 equalizer modes: Normal, Rock, Jazz, Classic, Pop, Bass.
Play mode	There are 6 play modes: NORMAL, REPEAT ONE, REPEAT ALL, SHUFFLE , SHUF&REP, INTRO
Screen saver	Vanquish RT Video PRO would turn off screen if there is no operation exceed the time which is set as 5SEC, 10SEC, 20SEC, 30SEC, 40SEC, 50SEC and Disable. "Disable" represents the screen can't turn off. Press any button to exit screen saver.
Power set	Vanquish RT Video PRO would power off automatically if there is no operation during the time which is set as 2MIN, 5MIN, 10MIN and Disable. "Disable" represents Vanquish RT Video PRO can not be power off automatically.
FM Out	To choice the "Soundable" or "Silent" of the earphone when FM transmitting.
Default	To set as original value, press [OK] button to enter, press [◀/▶] button to select "YES/NO", press [OK] button to confirm.
Backlight	Select display brightness.
About	To browse the system information, which includes company, name and type of product, hardware and firmware version, available and total capacity of flash. Press [BACK/A-B] button to return to "Settings" menu.
Exit	Select "Exit", Press [OK]button to return to main menu.

FM Transmission

Vanquish RT Video PRO can send the playing music to FM radio, so you can enjoy the playing music in Vanquish RT Video PRO through FM radio (i.e. car audio or home audio system).



Note:

FM transmission feature is disabled by default in devices sold in the EU due to imprecise regulations. In countries not restricting the use of this feature it is possible to enable it by installing included software.

The steps are as the following (FM radio of car e.g.):

1. Turn on the FM radio of car, please change the range of FM frequency within 87.5 MHz – 108 MHz. (Please choose the frequency without FM program for better effect.)
2. Connect the earphone to Vanquish RT Video PRO, hold **[MODE/FM OUT]**, button to enter transmitting status.
3. Press **[Volume+/-]** button to change the frequency, till the transmitting frequency of Vanquish RT Video PRO is same as the frequency of FM radio of car.
4. Now you can enjoy the music in Vanquish RT Video PRO through FM radio of car.
5. Please refer to "Music" for details, except for turn up/down the volume, please turn up/down the volume through the stereo set of car.

Exit FM transmission: Hold **[MODE/FM OUT]** button to exit FM transmission.

Note:

- **The earphone can be used as antenna during FM transmitting.**
- **Please connect the earphone to Vanquish RT Video PRO at first before FM transmitting.**

SPECIFICATIONS

* The actual useable capacity may not be identical as labeled. PENTAGRAM reserves the rights to make changes on any specification without prior notice.

Items	Descriptions	
Dimension	93.3 x 44 x 7.2 (mm)	
Net Weight	45g approximately	
Display	2-inch, 260K TFT display	
Power Supply	Powered by built-in lithium battery, USB port or adapter charged for it.	
MP3, WMA	Earphone Output	6mW + 6mW, 32ohm
	MP3 Bit Rate	8Kbps ~ 320Kbps
	WMA Bit Rate	16Kbps ~ 192Kbps
	Frequency Response	20Hz ~ 20KHz
	Stereo Imbalance Degree	± 0.5dB
FM Transmission	Range of Frequency	87.5MHz ~ 108MHz
	Transmission Power	<0.5mW, Zasięg: 10m
FM Radio	Range of Frequency	76MHz ~ 108MHz
	Preservable Stations	30
Music Format	Mp3, WMA, WAV	
Video Format	SMV	
Photo Format	BMP and JPG format, resolution less than 1024 x 768 pixels.	
Text Format	TXT	
Working Temperature	-10°C ~ 55°C	
Storage and Transportation Temp.	-40°C ~ 70°C	
Relative Humidity	20% ~ 90% (40°C)	
Atmospheric Pressure	86 KPa ~ 106 KPa	
Operating System And Computer	Windows 98/98SE/Me/2000/XP/Server 2003/Vista , Mac OS 10.2 or above, Linux 2.4.2 or above. IBM PC, Compatible Notebook or Mac with USB port.	

FAQ

If you experience any of the following difficulties in using Vanquish RT Video PRO, use the following guide for help. Should any problem persist, please contact with PENTAGRAM Customer Service.

Symptoms	Possible Reasons Analysis	Remedy
Fail to power on.	Low battery.	Charge battery.
Power off shortly while power on.	Low battery.	Charge battery.
	[HOLD] switch locked.	Unlock [HOLD] switch.
No sound output.	The volume is 0.	Turn up the volume.
	Earphone doesn't connected well.	Connect earphone correctly.
Keystroke void.	[HOLD] switch locked.	Unlock [HOLD] switch.
Fail to connect with the computer.	USB Cable doesn't connected correctly.	Connect USB Cable correctly.
	Driver hasn't been installed on Windows 98/98SE.	Install the driver (Please refer to "Utilities Installation" for details).
Fail to copy files.		Check the system settings whether be accordance with requirements.
		Format Vanquish RT Video PRO and try again.
Can't recording.	Low battery.	Charge battery.
	Space insufficient.	Delete some files.
	Recorded files have exceeded the maximum limit.	Delete some files.
Can't play video.	Format error.	Convert video file.
Can't charge by adapter.	Doesn't connect adapter well.	Connect adapter well.
The volume of the earphone is too loud while transmitting.		The earphone's volume is default as 20 while transmitting.