



Instruction Manual

VANQUISH
R WAVE



The latest versions of the manual, software and applications are available at www.pentagram.eu

2007-10-26

INDEX

INTRODUCTION	3
GETTING STARTED	4
USAGE	7
NAVIGATION.....	9
CONNECTING TO COMPUTER.....	17
TROUBLESHOOTING.....	19
SPECIFICATION	20

NOTE! Any information and technical data are subject to change without prior notification and/or indication in this manual.

Copyright © 2007 PENTAGRAM

All rights reserved; copying and reproduction is strictly forbidden.

Introduction

Thank you for purchasing PENTAGRAM Vanquish R Wave. This player is a new type of portable digital multimedia player equipped with a dual chipset (Twin Core). It perfectly combines high quality digital audio (MP3, WMA, APE, FLAC) & video playback (AVI and directly FLV from YouTube.com® and VideoGoogle®), voice recording, FM tuner, FM recording, photo/EBook browsing, games, PlayFX™ sound enhancement and the innovative G Sensor technology.

System Requirements

- IBM PC, notebook or Mac with available USB port;
- Operating system: Windows Me / 2000 / XP / Vista, MacOS 10 or newer, Linux 2.4.2 or newer.

Box Content

- PENTAGRAM Vanquish R Wave (P 5115)
- In-Ear Earphones
- 3 pairs of soft, silicon earbuds (S, M, L)
- USB cable
- CD with applications
- Instruction Manual
- Neckstrap
- Power adapter
- Velvet carrying pouch

Getting started

Safety precautions

- Don't use too much strength when using Touch buttons, you can damage touch panel;
- Please avoid placing player directly in the sunshine or dusty, humid place or place with extremely low or high temperatures (i.e. car with closed windows in summer) ;
- Please avoid dropping or impact upon player;
- Don't let liquid or objects into player;
- Don't use chemicals, such as gasoline or other diluents, upon player's surface;
- Clean player only with soft cloth;
- Before cleaning, disconnect player from computer or other power source;
- 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 disassemble any part of the unit, any unauthorized disassembling will cause termination of PENTAGRAM official warranty;
- Please don't use wet hand to plug/unplug or contact player for preventing shock or damage;
- Please don't unplug player while data is transferring with the computer, otherwise the data may be lost;
- Please don't judder, otherwise player may be damaged;
- Files or data stored in player cannot completely avoid being destroyed or lost due to improper use or other reasons. Please backup files and data when necessary;

Battery charging

When you start using the unit, please fully charge and discharge the battery about 2 - 3 times to ensure maximum battery life and power capacity.

In the top right corner of the display (in most modes), a battery charge indicator is visible. If the indicator is filled with bars – the battery is fully charged, if it's empty – battery is almost discharged, and must be charged as soon as possible. During the charging process the indicator changes its colour.



To charge the battery:

- connect the player to computer's USB port, or
- connect the player to a power outlet via attached power adapter, or
- connect the player to a car lighter socket via car USB charger (not included).

G Sensor

The G Sensor is an innovative navigation solution providing easy player navigation. In most player work modes, the G Sensor acts as ◀ and ▶ buttons and allows you to navigate through the menus, skip songs, pictures or films. In this manual the usage of the G Sensor will be marked as **GS**. You can disable the G Sensor anytime in **Settings** menu.

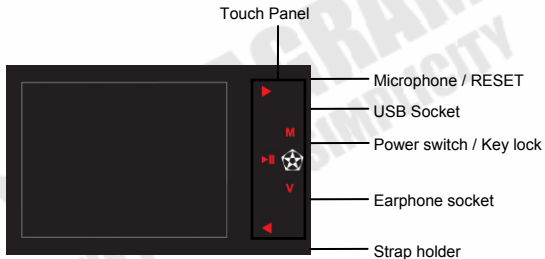


GS left – lift the right side of the player with a firm move and return to normal position. You can also wave the player to the left.

GS right – lift the right side of the player with a firm move and slowly return to normal position. You can also wave the player to the right.

Usage

Player's appearance



Buttons

Player's Touch Panel is very sensitive and it's not recommended to use too much pressure while using it. A slight touch is enough for the player to register button pressure. Familiarization with the Touch Panel and the sufficient pressure is easy.

All buttons have main function available at all times and functions which depend on the selected mode.

General

Power switch – power on/off and key lock. In this manual the Power switch term will refer to moving the power switch over the red field and letting it go.

M – hold for 3s – return to main menu.

Main Menu:

◀ and ▶ and **GS** – select main menu option.

M – confirm selection.

Submenu / file list

◀ and ▶ and **GS** – select submenu/list option.

M – confirm selection.

V – return to previous menu / parent folder.

V – on file list – hold for 2 seconds, to delete selected file.

Turning the player on

To turn on/off the player, you must move the power switch over red field and hold it in this position for 5 seconds.

Buttons lock

To lock player's buttons and G Sensor, please move the power switch over the black field. When the key lock is active, a padlock icon appears in the upper left corner of the display.

To unlock player's buttons and G Sensor move the power switch to neutral (center) position.

Resetting the player

Under specific conditions (i.e. running a game with the G Sensor enabled) the player's buttons may stuck and stop responding. In such cases, please press the **RESET** button (i.e. with the tip of a paper clip). The player will be turned off immediately. In most cases this operation will not erase the player settings to default.

Navigation

Main Menu

Use ◀ and ▶ buttons or **GS** to navigate through the main menu and press **M** to confirm selection. You can return to the Main menu anytime by holding **M** button for 2-3 seconds.

Music Menu

In this mode you can listen to music in MP3, WMA, APE and FLAC formats. Buttons functions in this mode are:

▶ || – pause / unpause.

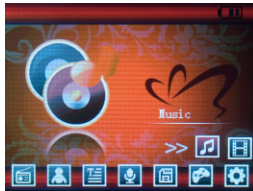
◀ / ▶ and **GS** – previous / next audio file.

V – enter / exit volume control mode (use ◀ / ▶ and **GS**, to turn up or down the volume). If enabled, volume icon in the top left corner will be flashing.

M – audio files list.

M in volume control mode – A-B repeat:

- enter the volume control mode, by pressing **V** button (volume icon will be flashing)



- press **M** button, to select the start point (A), **A-** icon will appear on the display.
- press **M** button, to select the end point (B). **A-** icon will change to **A-B** and the player will repeat continuously the selected fragment. To disable A-B repeat press **M** button again (in the volume control mode).

The player supports lyrics files In LRC format. All you need to do is to copy lyrics file to the folder with music file and ensure that both filenames are identical (i.e. "vanquish.mp3" and "vanquish.lrc"). Lyrics will be displayed automatically when a particular music file is being played.

Video Menu

This mode is used for playing video files. Supported file formats are AVI format (320x240) compressed with Xvid codec or directly FLV files used at YouTube.com® and VideoGoogle®. If the video file is not supported by the player, you can use AviConverter application to convert it to a supported video format. Buttons functions in this mode are:

▶ || – pause / unpause.

◀ / ▶ and **GS** – previous / next video file.

V – enable/disable the volume control mode (use ◀ / ▶ and **GS**, to turn up or down the volume). If enabled, the volume icon in top left corner will be flashing.

M – video files list.



Radio Menu

This mode is FM tuner. In this mode the earphones are used as antenna and they should be connected before the station tuning. Buttons functions in this mode are:

M – Radio mode submenu:

- **Manual** – manual tuning.
- **Preset** – saved channels.
- **Mem** – save the current station on selected position.
- **Del** – delete the station from selected position
- **Auto** – automatic scanning and saving.

◀ / ▶ and **GS** (Manual) – change the frequency by 0,1MHz, hold to scan for nearest the station.

◀ / ▶ and **GS** (Preset) – previous / next saved station.

V – enable / disable the volume control mode (use ◀ / ▶ and **GS**, to turn up or down the volume). If enabled, the volume icon in the top left corner will be flashing.

Power switch – FM recording, see **Record** for details.

When exiting the Radio mode (hold **M**) you can select if you want the radio to stay turned on.

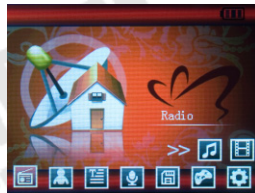


Photo Menu

This mode is a photo (JPG, BMP and GIF format) browser. Buttons functions in this mode are:

M – graphic files list.

◀ / ▶ and **GS** – previous / next file.

▶ || (hold) – enable / disable slideshow.



Text Menu

This menu is EBook (TXT text files) browser. Buttons functions in this mode are:

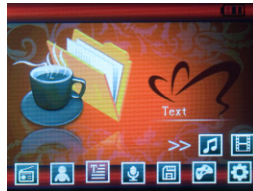
M – text files list.

◀ / ▶ and **GS** – scroll up / down one page.

▶ || (hold) – auto-scroll.

V (press) – save bookmark menu.

V (hold) – load bookmark menu.

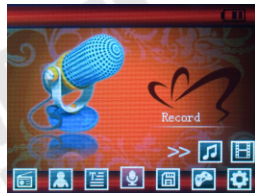


Record Menu

This mode can be used to record voice via a built-in microphone (select Record from main menu) or from FM (use the power switch in **Radio** mode). Buttons functions in this mode are:

M – save the recording file and return to main menu / **Radio** mode.

Power switch – start / pause recording.



Explorer Menu

This mode is a file browser. Select a file to be played automatically in appropriate mode (i.e. MP3 file will be automatically played in **Music** mode). Buttons functions in this mode are:

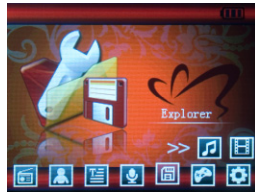
Buttons functions in this mode are:

◀ / ▶ and **GS** – file / folder selection.

M – confirm selection.

V (press) – level up.

V (hold) – delete file.



Tools Menu

In this mode you can find games and other applications. Select the desired mode (using ◀ / ▶ and **GS**) from the menu and confirm your selection by pressing **M** button.

Games

WARNING! Before running any game, we recommend that you disable the G Sensor in **Settings** menu! If the G Sensor is enabled when running game, player buttons may stop responding and player may stuck. If that happens, the only way to turn off the player is to use **RESET** button.



In each game, player buttons have different functions. To terminate game during playing, use the power switch for the pause menu to appear, then select QUIT and confirm selection with the power switch.

Plane Angle

Show player's plane angle. Press **V** button, to return to **Tools** menu.

Play Dice

The dice reacts to waving the player (**GS**). Wave the player to throw the dice. Press **V** button, to return to **Tools** menu.

Pedometer

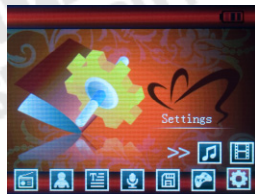
First, you need to configure pedometer parameters. Select (using ◀ / ▶ and **GS**) the field to edit and press **M**. Then use ◀ / ▶ buttons or **GS** to set your height and weight values and press **M** button, to save. Select **Walk Mode** or **Run Mode** and press **V**, to display the statistics.

Settings Menu

Settings Menu is used to configure various player functions.

Music – settings for **Music** mode:

- **Repeat mode** – select repeat mode:
 - Once – plays selected file once.
 - Repeat One – repeats selected file continuously.
 - Folder Once – plays allfiles in current folder once.
 - Folder Repeat – repeats files in current folder continuously.
 - All Once – plays all files once.
 - All Repeat – repeats all files continuously.
 - Intro – plays first 10 seconds of each file.
- **Play Mode** – select play mode:
 - Order – normal order.
 - Shuffle – random order.
- **Stone-3D** – Stone 3D effect configuration.
- **Hardware Bass Set** – Hardware Bass Boost configuration.
- **Hardware Treble Set** – Hardware Treble Boost configuration.
- **EQ Select (EQ)** select the desired EQ:
 - Normal, MS PlayFX™, Rock, Pop, Classic, Bass, Jazz, User EQ.



- **MS PlayFX Set** – MS PlayFX™ configuration (**3D Headphone**, **Pure Bass** and **AutoVolume** functions).
- **User EQ Set** – change the parameters of **User EQ**. Use **V** button to select frequency and modify it using **▲** and **▼** buttons. Select **Yes** and press **M**, to save settings or **No**, to return to previous settings.

Radio – settings for **Radio** mode:

- **Stereo Switch** – select **Yes**, to enable stereo or **No**, to disable it.
- **FM Region** – select FM region for FM tuner.

Record – settings for **Record** mode:

- **REC Quality** – select the quality of recorded files: **High Quality** or **Low Quality**.
- **REC Volume** – change the volume of recorded file.

Display – display settings:

- **Bright Time** – change idle time, after which the backlight or the display will be turned off.
- **Brightness** – select display brightness.
- **Bright Mode** – select whether the backlight or the whole display will be turned off after idle time.

Auto Play Set – settings for slideshow / auto scroll in **Text** and **Photo** modes:

- **Text** – time interval for auto scroll in **Text** mode.
- **Pictures** – time interval for slideshow in **Photo** mode.

System – system settings:

- **Languages** – language selection.
- **About** – information regarding the player – firmware version (**Ver**) and date (**Date**) and used / total player memory (**FlashMem**).
- **Upgrade** – firmware upgrade. See **Firmware upgrade** chapter for more details.

PowerOff Time – select idle time, after which the player will be turned off.

Default Set – select to restore all settings to default values.

Connecting to computer

The player has a high-speed USB 2.0 port with the transmission speed of 5M/S, and is a standard USB disc, supports operating systems including Windows Me/2000 and above, Mac OS 10.3 and above, Linux 2.4.2 and above. It supports USB power supply and can be played without battery. After connecting to the PC (several seconds later), the player will display the On-line mode.



Video files conversion

This player can convert the avi, rm, rmvb, mpg, mpeg, mp4, asf, wmv, mkv, dat or vob into avi video format via the attached video converting software.

1. Double-click on the AVIConverter icon to run the program.
2. Click **Add**, to open **Conversion Setting** dialog box;
3. Select and set your desired parameters, select your input video/audio file and AVI video file process to be generated, click **Start to Convert** button to begin converting to AVI file.

Firmware Upgrade

NOTE:

- *The firmware upgrade is meant to improve and optimize the performance of the player. The normal work of the player will not be affected even if the firmware isn't upgraded. The wrong operation of upgrading firmware*

Vanquish R Wave (P 5115)

would cause the device not to work normally! The firmware upgrade software of this player does not apply to other series of players.

- *Before firmware upgrade we recommend you to backup the files stored inside the player's flash memory. All files are likely to be erased during the upgrade procedure. PENTAGRAM Europe cannot be held responsible for any data loss.*
- *Make sure that you use only the genuine PENTAGRAM firmware for upgrading Vanquish R Wave. You can download the latest firmware from www.pentargam.eu*
- *Do not detach the player from your computer while the firmware upgrade procedure is in progress. This may casue a critical malfunction.*

The player can upgrade or resume the damaged player driver via the tool software from the attached CD disc.

1. For the first upgrading of computer, insert the drive disk into the CD-ROM of computer, then connect the MP4 player with computer (it requires you to press and hold the **M** key), till it appears the program Installation Interface.
2. Implement the next step according to the Dialog box prompt, and select the "Upgrading Tool" folder in the attached disk in the "Browse" option of the fourth Dialog box, then click Confirm.
3. Operate as per the prompt in dialog box till the accomplishment
4. When the installation of programs required by computer is OK, you can begin the upgrading; select and run the firmware upgrading tool Consumer.exe (can be found in attached disk), then open the option and select *.rhw file.
5. Connect the player to PC via USB cable (press and hold the **M** key before the On-line operation), then click [Burnt Firmware] till the Auto Upgrading is achieved.

Troubleshooting

If you experience any of the following difficulties in using player, use the following guide for help. Should any problem persist, please visit www.pentagram.eu site and eventually contact PENTAGRAM Customer Service.

Symptoms	Possible cause	Solution
Fail to power on	Low battery	Charge the battery
Power off shortly after power on		
No sound output	The volume is set to 0	Turn up the volume
	Earphones not connected properly	Connect earphone correctly
Buttons doesn't work	Player is stuck	Use Power switch to turn of and turn on player or use RESET button
	Button lock enabled	Disable button lock
Fail to connect with the computer	USB Cable doesn't connected correctly	Connect USB Cable correctly
Fail to copy files	Your system doesn't meet player's requirements	Upgrade your system to meet the requirements
	Flash memory error	Format player's memory and try again
Can't recording	Low battery	Charge battery
	Space insufficient	Delete some files
Can't play video	Format error	Convert video file

Specification

Function	Description	
Chipset	Twin Core: Rockchip 2608A + Wolfston 8750BG	
Dimensions	88 × 55 × 7.9mm (W x H x D)	
Weight	~ 54g	
Display	TFT LCD 2,8" QVGA 320x240 – 262k colors	
Navigation	2nd generation touch panel and G Sensor	
Power supply	built-in Li-Poly, charged via USB port or power adapter	
Working time	Music (power saving) / Video (power saving)	~10h / ~4h
Radio FM	Frequency: China, Europe, U.S.A Japan	87MHz – 108MHz 76MHz – 90MHz
	Preset stations	30
Supported files	Music	MP3, WMA, FLAC, APE
	Video	AVI (Xvid 320x200), FLV
	Text	TXT
	Photo	JPG
Sound enhancemens	PlayFX™, Stone 3D, Hardware Bass Boost, Hardware Treble Boost, Equalizer (6 predefined modes + 1 custom)	
Max. output power	10mW in left and right	
SNR	90dB	
Working temperature	5°C~40°C	
Data transfer	PC, notebook or Mac with USB port	
Operating system	Windows Me/2000/XP/Server2003/Vista, MacOS 10.3 and above, Linux 2.4.2 and above.	

* specification may be changed without prior notice