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**Mobile Media Safe VSV-II  
(30 GB)**

## INDEX

### Introduction

- **Introducing VSV-II**.....3
  - VSV-II highlights.....3

### Mastering the Basics

- **Getting Started**.....3
- **User Interface**.....3
  - Operation Modes.....4
  - Operating Systems.....4
- **Preparations**.....4
  - Powering VSV-II.....4

### Standalone Mode

- **Operating VSV-II**
  - Controls.....4
  - IR remote control.....5
  - Key lock.....5
  - Copying files or folders with VSV-II.....5

### Playing Music

- Jukebox control.....5
- Equalizer.....5
- Hiding Jukebox as background music.....5
- Add songs to Playlist with VSV-II.....5

### Playing Movies

- Video Player Controls.....6
- Play Video Clips and Slideshow on your TV.....6

### Viewing Photos

- Photo Viewer Controls.....6
- Slide show.....6
- Zoom in/Zoom out.....6
- Rotate pictures.....7
- Change background.....7

### FM Tuner

- Automatically Scan from Channel to Channel.....7
- Preset channels.....7

- **Video Recording**.....7

### Audio/Voice/FM recording

- Audio Recording.....7
- Voice Recording.....7
- FM recording.....7
- Find recorded files.....8

### Video Game

- Tetris.....8

### Options

- Change Options.....8
- SYSTEM Menu.....8
- Setting Date and Time.....8
- Display Menu.....8
- Version Menu.....8
- Power Saving features.....8

- **Updating Firmware**.....9

### Hard Disk Drive

- Format Hard Disk Drive on VSV-II.....9

### USB mode

#### Mass Storage Device

- Access Disk on PC.....9
- Format Hard Disk Drive and Memory Cards on PC.....9

#### MTP Media Player

- Downloading files through Windows Media Player 10.....9
- Printing Photos directly from VSV-II through printer.....10

### Using a memory card

- **Inserting memory cards**.....10
- **Format memory cards with VSV-II**.....10
- **Backing up files from memory card**.....10
  - Full Backup of memory card.....10
  - Backup photos from memory card.....10

### Specifications for VSV-II

- **General Specifications**.....11
- **Supported files**.....12

## Introduction

### Introducing VSV-II

VSV-II is a multi-player portable device that could be used for personal storage and all kinds of entertainment. Import and organize songs, photos, movies through your PC and transfer them to your VSV-II for entertainment on the go.

### VSV-II Highlights

- 3.5 inch color LCD display.
- Listen to hours of music. VSV-II supports MP3, WAV, AAC, WMA, to CDA files.
- View thousands of photos. VSV-II supports BMP, TIFF, JPEG and RAW files.
- Create slideshow with music.
- Watch hours of movies, recorded television or home video. VSV-II can support MPEG-1, MPEG-4 (Simple Profile), DivX5.x, Motion JPEG movie files.
- Connect to a projector or TV for larger screen viewing.
- Video/Audio/Voice recorder.
- FM tuner/recorder.
- Built-in 30GB Hard disk drive for storage
- Integrated CF/MD/SD/MMC/MS & xD card reader, able to transfer files in all directions.
- Print photos directly with Pictbridge compliant printers.
- Built-in Speaker.
- Video game-Tetris.
- USB2.0 for fast transfer to and from your PC.

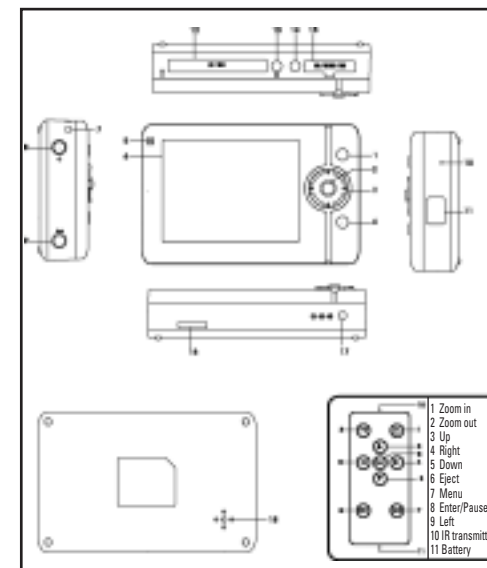
### Mastering the Basics

#### Getting Started

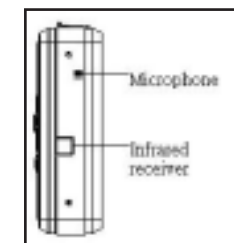
VSV-II standard package should include the following items:

- VSV- 3.5 player
- Audio and Video RCA cable
- AC adapter
- USB cable
- Software-DVD
- Earphone
- Remote control

### User Interface



- 1 ESC
- 2 Jostick
- 3 Wheel
- 4 Menu
- 5 Indicator
- 6 Screen
- 7 Hanging
- 8 Power
- 9 Reset
- 10 Mic
- 11 IR sensor
- 12 CF/MD card slot
- 13 Earphone / Audio-out
- 14 Video-out
- 15 SD / MMC / MS & xD slot
- 16 22P Connector
- 17 DC in



## Operation Modes

VSV-II has two Operation modes:

- **Standalone mode:** When it is not connected to PC, VSV-II becomes a portable multi-player and backup device.
- **USB mode:** When connected to PC, VSV-II automatically enters USB mode. VSV-II's built-in hard disk appears on your PC as an additional hard disk, while the two card slots appear as two removable disks which can function as card readers.

## Operating Systems

VSV-II does not need a driver when connected to a PC or Mac for the below:

- Windows 2000 (Service Pack 3 and later)
- Windows XP
- Mac 10.0.1 and later
- Linux Kernel Version 2.4 and later

Note that Windows 2000 Service Pack 2 and previous versions will have to be updated to service Pack 3 to support VSV-II.

## Preparations

### Powering VSV-II

Before operating VSV-II, you will need to charge your battery with an AC adaptor or a USB cable. When power is connected, the red LED will shine. When you turn on VSV-II, the green LED will shine as well.

- **AC Adapter:** Plug AC adapter to DC in through household power socket. VSV-II may be charged during on or off mode.
- **USB 2.0:** Connect USB cable to PC and VSV-II. VSV-II may be charged during on or off mode.

**When VSV-II's battery is fully charged, the red LED light won't shine. When turned on, the battery icon on the bottom right of the display will show as below:**

**Low Battery:**



**Charging:**



**Full Battery:**



\*Note that battery for VSV-II's is built inside. When battery is empty, it takes about 3.5 hours to fully charge.

## Standalone Mode

### Operating VSV-II

#### Controls

Keys	Functions
Power Key (8)	* Turn on VSV-II
Joystick (2)	* <b>Move Upward:</b> To go up * <b>Move Downward:</b> To go down * <b>Move Leftward:</b> To go left * <b>Move Rightward:</b> To go right * <b>Press Down:</b> Enter, play file
Wheel (3)	* Turn Clockwise: raise volume/zoom * Turn Counterclockwise: lower volume
ESC (1)	Move to previous page
Menu (4)	* <b>List view:</b> Show details of each file * <b>Auto view:</b> For files such as photos, it will show Icon. For files such as mp3s, it will show the details of file. * <b>Icon view:</b> Show Icon of each file * <b>Copy:</b> Select OK to copy selected file or folder to clipboard. * <b>Paste:</b> Paste file or folder from clipboard to selected folder * <b>Delete:</b> Delete file or folder * <b>Key lock:</b> To lock keys from being activated when pressed.
Reset (9)	To restart VSV-II

## IR remote control

The keys definition on the remote control is the same as VSV-II but without **Power on & off**. For the best signal reception, the remote control should be pointed at IR receiver direction.

## Key lock

You may lock your keys by selecting **Keylock** under Menu key. To unlock, press Menu key then press ESC key, or the other way around.


## Copying files or folders with VSV-II

You can copy any file or folder in all directions. From Hard Disk to Memory Card, Memory Card to Hard Disk, Folder to Folder within Hard disk.

### To copy files or folder to another place:

1. Select file or folder and Press Menu key.
2. Select **Copy** VSV-II will show: **Copied to Clipboard**.
3. Go to desired folder and press Menu key. Select **Paste**.
4. VSV-II will show: **Paste from Clipboard?** Select **Yes**.

## Playing music

 Music may be played from the hard disk drive or directly from the memory cards.

## Jukebox Controls

Menu (4)	* <b>Playlist:</b> List all songs in particular folder for you to select while still listening to music. * <b>Shuffle On:</b> Plays music in Playlist randomly. * <b>Repeat Single:</b> Repeats same song. * <b>Repeat All:</b> Plays all songs in Playlist repeatedly. * <b>Equalizer:</b> Plays music in different modes. (Normal/Bass/Classic/Dance/Live/Rock/Treble) * <b>Key Lock:</b> Lock keys. * <b>Play in background:</b> Hiding Jukebox as background music.
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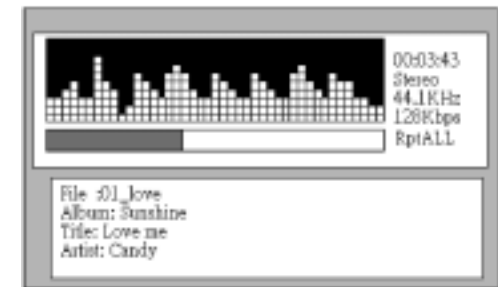
Joystick (2)	* <b>Move Upward:</b> Move to previous song. * <b>Move Downward:</b> Move to next song * <b>Move Leftward:</b> Rewind * <b>Move Rightward:</b> Fast-forward * <b>Press Enter:</b> Pause song
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## Equalizer

When Jukebox is playing, press Menu key and select **Equalizer** for 7 EQ settings: "**Normal/Bass/Classic/Dance/Live/Rock/Treble.**"

## Hiding Jukebox as background music

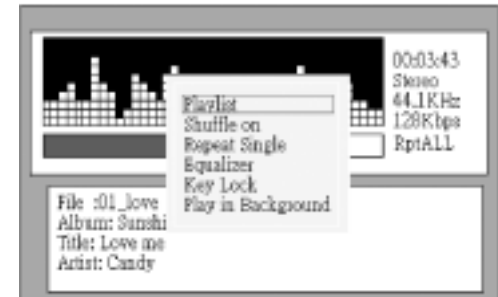
Press **Menu** key under Jukebox and select **Play in background**. Simply press ESC and listen to music while operating VSV-II. To return to Jukebox screen press Menu and select **Jukebox**.



## Add songs to Playlist with VSV-II

Songs in Playlist are all the songs in the folder of which the song being played belongs to.

1. Press Menu key under Jukebox and select Playlist



to see songs.

2. Press ESC key to leave Playlist.
3. Press Menu key and select Play in Background to



- go to another folder.
4. Select the song of which you desire to add to your Playlist by leaving the cursor on it.
  5. Press Menu key and select Add to Playlist. (To add another song, repeat step 4 and step 5).
  6. You may press Menu key and select Jukebox to go back to Jukebox mode.
  7. Press Menu key and select Playlist to see the selected songs added to the end of the Playlist.

## Playing Movies



Movie may be played from hard disk drive or directly from memory cards. To fast-forward or rewind movie, move joystick either rightward or leftward.

## Video Player Controls

Keys	Functions
Menu (4)	<ul style="list-style-type: none"> <li>* <b>Playlist</b></li> <li>* <b>Repeat</b></li> <li>* <b>Stereo</b></li> <li>* <b>Left Channel</b></li> <li>* <b>Right Channel</b></li> </ul>
Joystick (2)	<ul style="list-style-type: none"> <li>* <b>Move Upward:</b> Move to previous movie.</li> <li>* <b>Move Downward:</b> Move to next movie.</li> <li>* <b>Move Leftward:</b> Rewind.</li> <li>* <b>Move Rightward:</b> Fast-forward.</li> <li>* <b>Press Enter:</b> Pause movie.</li> </ul>

## Play Video Clips or Slideshow on your TV

Connect VSV-II Audio out and Video out with AV cables to TV's Audio in and Video in. VSV-II's LCD screen will automatically turn off to save battery life.

## Viewing Photos



### Photo Viewer controls

Key	Functions
Menu (4)	<ul style="list-style-type: none"> <li>* <b>Hide EXIF:</b> Hide description for photo.</li> <li>* <b>Fit Width View:</b> Picture will be resized to fill the screen.</li> <li>* <b>Max Visible View:</b> Let Picture Zoom out completely.</li> <li>* <b>Slide Show:</b> Pictures will show automatically.</li> <li>* <b>Delete:</b> Delete picture.</li> <li>* <b>Set as Background:</b> Set picture as desktop.</li> <li>* <b>Print:</b> Print out picture to printer.</li> </ul>
Joystick (2)	<ul style="list-style-type: none"> <li>* <b>Move Upward:</b> Previous Photo.</li> <li>* <b>Move Downward:</b> Next Photo.</li> <li>* <b>Move Leftward:</b> Previous Photo.</li> <li>* <b>Move Rightward:</b> Next Photo.</li> <li>* <b>Press Enter:</b> Rotate Picture.</li> </ul>

## Slide Show

You may view all photos of a folder automatically by using Slide Show.

### When viewing photos:

1. Press Menu key and select Slide show.
2. Move joystick rightward or leftward for how many seconds you would like to display each picture before automatically changing to the next one. VSV will show something like this: "Slide Interval = 3 sec".

For music in background, refer to "Hiding Jukebox as background music" (page 9).

To jump out of Slide show, press ESC key.

## Zoom in / Zoom out

Zoom in or Zoom out a picture by spinning the wheel in either direction. Use the Joystick to move to different spots in the picture.

## Rotate pictures

Rotate pictures by pressing **Enter**. Each rotation of picture is 90 degrees in counterclockwise direction.

## Change background

You may change the background photo of VSV-II that is stored in your Hard Disk drive.

1. Press Menu key for the picture you would like to place on your desktop.
2. Select Set as Background.

## FM Tuner



You may listen to FM radio with VSV-II. Select Radio on desktop and tune to the station you prefer. The earphone is worked as an antenna. Thus, if you want a better reception, **you must listen to radio through an earphone.**

## Automatically Scan from Channel to Channel

You may automatically scan from channel to channel by two ways:

- A. Press Menu key and select Scan
- B. Hold Joystick either leftward or rightward for more than 2 seconds.

The tuner will automatically scan for the next channel available. To stop scanning, press **Enter**. Note that this function may sometimes fail to do to bad reception of some channels.

## Preset channels

You may preset up to 12 of your favorite channels. There are two groups (**GROUP 1** and **GROUP 2**) where each group can save up to 6 channels.

1. Tune to the channel you would like to preset.
2. Press Menu and select **GROUP 1** or **GROUP 2**.
3. Select **SAVE** and choose from **Channel 1 ~ Channel 9**

When listening to radio, select favorite channels by pressing up or down.

## Video Recording



Refer Audio Line-in Recording procedure but cable connects to TV or DVD output

## Audio/Voice/FM Recorder



There are two different channels – **Stereo & Mono** for audio and radio recording. For voice recording, there is only one channel- **Mono**. For high Mono recording quality, select higher frequency: **48 KHz Mono**. For lower quality settings, select frequency with lower number. The lower the quality, the smaller the recorded file.

## Audio Recording (Audio Line-in Recording)

You may record from any device, such as a CD player, a radio...etc. as long as it has an Audio output.

1. Connect cable to audio output from the device.
2. Connect other end to VSV-II.
3. Change to line-in recording by going up or down.
4. Enter **record** to start recording.
5. While recording, you will see the green signals move on the screen.
6. To stop recording, press pause .

## Voice Recording

**Please put on earphones or leave speaker on OFF while voice recording, the VSV-II will be no feedback influence.**

1. Directly choose **Audio Recording** on Menu.
2. Enter **record** to start recording.
3. While recording, you will see the green signals move on the screen.
4. To stop recording, press pause .

## FM Recording

1. Change to **radio recording**, you will enter radio mode.
2. Tune to the channel that you want to record.
3. Press Menu key to select **Record** on screen.
4. Enter **record** to start recording.
5. While recording, you will see the green signals move on the screen.
6. To stop recording, press pause .

## Find recorded files

To find all your recorded files:

1. Go to HardDisk folder.
2. Enter Media folder.
3. Enter Voice folder.

## Video Game



**Tetris:** Play in different speeds, up to 9 different levels.

1. Select level pressing up or down when entering game.
2. Control directions: left, right, and down.
3. Press Menu key to pause.

## Options



### Change Options

To change settings under **SYSTEM/DISPLAY/VERSION:**

1. Press Menu key to change to between SYSTEM/DISPLAY/VERSION.
2. Press Enter to select items. (Item will be highlighted).
3. Select different options with Joystick.
4. Press Enter again to confirm settings. To cancel settings, press ESC key.

## SYSTEM Menu

	Items	Options
SYSTEM	Language	Select from 11 Languages.
	Auto Shutdown Timer	Choose how many minutes of idle time before VSV-II turns off.
	Copy Speed (HD)	ULTRA/NORMAL/HIGH
	Copy Speed (CF)	ULTRA/NORMAL/HIGH
	USB mode	<b>Mass Storage Device:</b> General use. <b>MTP media player:</b> For downloading music through DRM (Digital Right Management).
	Time Zone	Choose what time zone you are in.
	Date Time	Shows date and time.

## Setting Date and Time

To set date and time, go to Date Time under **SYSTEM** and press **Enter**, adjust the time by spinning the wheel, move to different directions with Joystick.

## DISPLAY Menu

	Items	Options
DISPLAY	File View Mode	<b>Auto View:</b> Files such as pictures or video will show as Icons while files such as music will show as list view. <b>Icon View:</b> All files will show as small pictures. <b>List View:</b> All files will show file name and file capacity.
	Screen Saver Timer	Choose how many minutes of idle time before LCD turns off.
	LCD Backlight	Adjust the brightness of LCD
	TV Standard	NTSC PAL
	Cursor color	Choose different cursor colors.

## VERSION Menu

	Items	Information
VERSION	Firmware Version	Version of firmware in VSV-II
	Hardware Version	Version of Hardware of VSV-II
	Production Number	Product number

## Power Saving Features

**Auto Shutdown Timer:** Go to **System** and select **"Auto Shutdown Timer"**, set the time you would like the power to shut off while idling.

**Screen Saver Timer:** To save battery life, go to **Display** and select **"Screen Saver time"** and set how many minutes you want before screen automatically turns off when idling.

## Updating Firmware

When new firmware is available for VSV-II, you can contact the vendor for updated firmware. Following is the procedure for updating firmware:

1. Make sure VSV-II is fully charged or connected to an adaptor.
2. Download the latest firmware into your VSV-II or in a memory card.
3. Select firmware and enter the file.
4. Press **"Yes"** for latest firmware update.
5. VSV-II will ask you to wait for 55 seconds.
6. When done updating, VSV-II will ask you to press **"Sel"**.
7. Press **Enter** and VSV-II will turn off.
8. Press the power key to turn on again.

## Hard Disk Drive



All your files are stored in Hard Disk Drive, there are four folders: **"Backup, Data, Media, and System"**.

## Format Hard Disk Drive on VSV-II

**Formatting your Hard Disk Drive will Erase all the files in your Hard Disk.** To Format your Hard Disk Drive:

1. Press the menu key near the Hard Disk symbol in the main menu and choose **"Format Hard Disk."**
2. When you format Hard Disk from VSV-II, VSV-II will create **"Music/Pictures/Video/Voice"** folders under Media folder of Hard Disk.

Note that if you format Hard Disk through PC, these folders won't be created.

## USB Mode

There are two modes for USB: Mass storage device and MTP media player.

## Mass Storage Device

### Access Disk on PC

1. Connect USB cable to VSV-II to your PC.
2. Windows Explorer will show one "fixed" Hard Disk Drive and two "removable" slots.
3. After the Disk appears, you can manage files and folders normally on the Hard Disk and Memory cards.

Note that the LCD on VSV-II is designed to shut off to save power at this mode.

### Format Hard Disk Drive and Memory Cards on PC

1. Choose the VSV-II Hard Disk and right click the mouse.
2. Choose **"Format"** and window will pop up.
3. Select to format into FAT16 or FAT32. **Please try not to format the Hard Disk into NTFS-You will not be able to recognize the Hard Disk in Standalone mode.**

To format Memory cards, follow the same procedure as above.

### In USB mode, when battery level is low, it is highly recommended to have the adaptor power VSV-II.

When copying files between VSV and PC, the USB port alone may not supply enough power to enable stable hard disk operations.

## MTP Media Player

### Downloading files through Windows Media Player 10

1. Go to **Options**.
2. For USB mode, select **MTP media player**.
3. Connect USB cable to PC and VSV-II.
4. A window will pop out and ask if you would like to synchronize device with computer, we suggest you select **Manual**. You can set up automatically at any time by clicking **Set up Sync** on the **Sync** tab.





- Open up Windows Media Player 10. Drag in the songs you prefer to download into VSV-II to "Library" tab of Windows Media Player 10.



- Go to "Sync" folder and select "All Music", you will also see VSV device detected on the right of the window.



- Put a check next to the songs you prefer to store in VSV-II.
- Press "Start Sync" and the files will automatically store into your Music folder.

**Note that DRM files may only be downloaded to VSV-II through Windows Media Player 10.**

#### Printing Photos directly from VSV-II through printer

- Go to **Options**.
- Change settings to **Mass Storage Device**.
- Connect VSV-II to Pictbridge Compliant Printers.
- Open up your photo files and press Menu key.
- Select "Print."

**For Photos to be directly printed out through printers, printers must be Pictbridge compliant.** If printer is not Pictbridge compliant or if it is not connected well, VSV-II will show "No Supported Printer".

#### Using a memory card

VSV-II supports **CF/MD, SD, MMC, MS, xD** cards.

#### Inserting memory cards

- Slide in your memory card(s) to the right card slot on your VSV-II.
- VSV-II will show "Identifying memory card" then it will show "card mounted". Then click down "Joykey" lightly to get display on screen.
- An Icon of your memory card will then show on the screen exactly.
- Press Enter to read the files in the memory card.

#### Format memory cards with VSV-II

To format your memory card:

- Select memory card Icon.
- Press Menu key.
- Select **Format Disk** .

#### Backing up files from memory card

All the data backed up from your memory card will be stored in **Backup** folder. **Backup** folder is in Hard Disk Drive.

#### Full Backup of memory card

- Press Menu on memory card Icon.
- Select Full Backup.
- VSV-II will reconfirm with you if you want to or not. Press "Yes" and all your files in your memory card will be copied to the Backup folder.

#### Backup photos from memory card

You may backup your photos taken with your digital camera. Regardless of what other files are in your memory card, VSV-II will only backup the photos taken with digital camera. If there are no digital photos taken in memory card, VSV-II will show "Not DCF format".

- Slide your memory card into the slot.
- Press Menu key and select Photo Backup. All your photos will be copied to your Backup folder.

## Specifications for VSV-3.5

### General Specifications

Items	Category	Specification
System	Built-in Storage	1.8" 30GB Hard Disk, Up to 4 Primary Partitions
	Memory Card	2 Slots, 6 Card Types: CF/Micro Drive, SD/MMC/MS/XD
		Full Card Backup / Photo Backup to HDD, Copy Speed Select
	File Management	Single File / Folder Copy & Paste between any Storage Media. File Deletion, Hard Disk Format
		Connected to PC: As External HDD + Multi-Card Reader
	File System	FAT12/16/32
Operating System	Windows 98/98SE/ME/2000/XP	
	Linux Kernel Version 2.4 and Later	
	Mac OS 10.0.1 and Later	
User Interface	Key Definition	Up, Down, Left, Right, Power, ESC, Menu, +, -, Select and Reset. Key Lock by Software
	Language	Multi-Language OSD Menu and Filename Display
	File View Mode	Icon or List View
Power Supply	AC Adapter	DC 5.0V, 2.0A
	Battery	Rechargeable, Li-Polymer 3.7V/2200mAh
	Average Playback Time	Video: 3.5 hours, Audio: 10 hours
	Power Saving Features	Auto Power Off, Screen Saver, Hard Disk Spin Down
Video	Display	3.5" TFT LCD, 320x240 Pixels, Backlight Adjustable
	Line / TV-Out	NTSC/PAL
	Line In	I/O cable
Audio	Audio Built-in Speaker	8 Ohm up to 500mW
	Built-in Microphone	Yes
	Line Out	Yes
	Line In	I/O cable
	No. Channels	Stereo (L+R)
	Recording	FM, Voice and Line-In signals
FM Tuner	FM Frequency Range	76 MHz ~ 108MHz

Items	Category	Specification
Connectivity	Extended Interface (22P I/O connector)	USB 2.0 / Microsoft MTP, Audio In/Out, Video In/Out, 2-Wire Serial Interface, UART
	Remote Control	Infrared
	Direct Printing	PictBridge Compliant
	Multimedia Content Protection	Microsoft Digital Rights Management (DRM) 10
Scalability	Firmware Update	DSP Firmware by Direct File Execution, USB Firmware by PC
General	PC Connection	USB 2.0/ USB 1.1 by Microsoft MTP
	Dimensions	113 x 73 x 26 mm
	Weight	235g (including HDD and battery)
	Operational Temperature	0° to 40° C

## Supported files

Items	File Type	Description	
Decoding	Image	JPEG (*.JPG)	Baseline YUV and Grayscale (No Progressive), Up to 16M Pixels
		TIFF (*.TIF)	1 and 8-bit Grayscale, 8-bit Indexed-Color, 8 and 16-bit True Color
		BMP (*.BMP)	Monochrome, 8-bit Indexed-Color, RGB, RLE8
		RAW (*.NEF, *.ORF, *.CRW, *.RAF, *.OCR)	
	Video	Motion JPEG (*.AVI, *.MOV)	320x240 @ 30 fps, Audio: ADPCM
		MPEG-1 (*.MPG, *.DAT)	352x240 @ 30 fps, Bitrate: 1.5Mbps, Audio: MPEG-1 Layer II/III, Remark: VCD
		ISO MPEG-4 (*.MP4)	720x480 @ 25 fps / 640x480 @ 30 fps, Bitrate: 4Mbps, Audio: AAC, Remark: Simple Profile
		DivX 5.x (*.AVI)	720x480 @ 25 fps / 640x480 @ 30 fps, Bitrate: 4Mbps, Audio: MPEG-1 Layer III, AAC, ADPCM
	Audio	MP3 (*.MP3)	MPEG-1 Layer I/II/III, Sample Rate up to 48KHz, Bitrate: 16-384Kbps, CBR & VBR, Stereo or Mono
		WMA (*.WMA)	WMA 7/8/9, Sample Rate up to 44KHz, Bitrate: 32-192Kbps, CBR, Stereo or Mono, Microsoft DRM10
		AAC (*.M4A, *.AAC)	MPEG4-AAC, Sample Rate up to 48KHz, Bitrate: 16-320Kbps, CBR, VBR & ABR, Stereo or Mono
		WAV (*.WAV)	Sample Rate up to 48KHz, Stereo or Mono, Uncompressed 8 or 16-bit PCM in MS-RIFF WAV Format
		CDA	CD-Audio, 18-bit 44.1KHz Stereo
Encoding	Video	ISO MPEG-4 (*.MP4)	352x240 @ 30 fps, Audio: AAC
	Audio	AAC (*.AAC)	1 Channel: 48KHz / 75Kbps, 44.1KHz / 75Kbps, 32KHz / 56Kbps, 24KHz / 42Kbps, 22KHz / 38Kbps
			2 Channel: 24KHz / 84Kbps