Digital MP3 Player

MA97T OPERATION MANUAL

nextar™

Music

MODE

DIGITAL MP3 PLAYER

nextar™

FCC Certification

THIS DEVICE COMPLIES WITH PART 15 OF THE FCC RULES. OPERATION IS SUBJECT TO THE FOLLOWING TWO CONDITIONS : (1) THIS DEVICES MAY NOT CAUSE HARMFUL INTERFERENCE, AND (2) THIS DEVICE MUST ACCEPT ANY INTERFERENCE, RECEIVED, INCLUDING INTERFERENCE THAT MAY CAUSE UNDESIRED OPERATION.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules.These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not Installed and used in accordance with the instructions, may cause harmful interference to radio ommunications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which an be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

-Reorient or relocate the receiving antenna.
-Increase the separation between the equipment and receiver.
-Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
-Consult the dealer or an experienced radio/TV technician for help.

NOTE: THEMANUFACTURER IS NOT RESPONSIBLEFOR ANY RADIO OR TV INTERFERENCE CAUSED BY UNAUTHORIZED MODIFICATIONS TO THIS EQUIPMENT. SUCH MODIFICATIONS COULD VOID THE USER'S AUTHORITY TO OPERATE THE EQUIPMENT.

Table of Contents

1. Announcement

Thanks for purchasing our MP3 player. Before using the unit please read this manual carefully to obtain the best possible performance from your player and keep it for future reference.

2. Function summary

● Digital Audio formats
MP1, MP2, MP3, WMA, WMV, ASF, WAV (Easy to work with Windows Media Player).

● Firmware upgrades (Check periodically)
www.nextar.com will provide the latest software upgrades and functions.

● Function of free-drive U disk
Manipulate files via the "mobile disk" in "My PC" without any additional programs on your PC(drive program needs to be installed for operating systems prior to WIN2000).

● "Dream-space" disk mode
Enables you to separate the storage disk via the "mobile disk" in "My PC" into two disks using the utilities included on the accompanying CD and encrypt one of those disks to hide the disk space. This encrypted space can then not be read by others.

● Record/Replay
Record your voice with the microphone and save as WAV or ACT. You can then choose to replay that all such recordings or to replay selected recordings.

● Seven tone equalizer
Can be set to Natural, rock, pop, classical, soft, jazz or heavy bass.

● various play modes
Can be set to Natural, cycle single song, play directories, cycle directories, cycle all, shuffle or browse.

● Shutdown timer
Sleep mode and power-save mode to simplify and extend battery use.

● **Full-cartoon menu**
Graphic menus with corresponding text display.
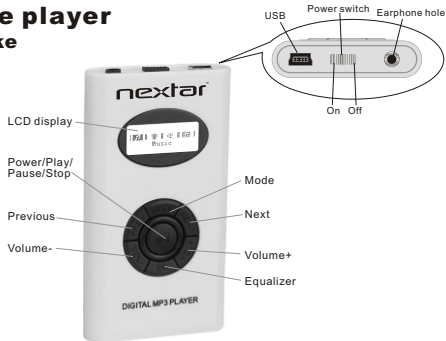
● **Built-in FM radio**
You may easily listen to FM stations and set your favourite stations by using Auto Preset or Manual Preset. The player can save 40(20 for each Band) local stations at different frequency.

● **USB connection**
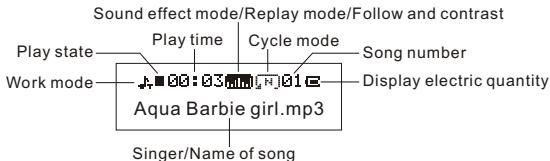Quick connection to USB port.

3. Getting to know the player
● **Appearance and keystroke**

USB   Power switch Earphone hole

On Off

nextar

LCD display

Power/Play/
Pause/Stop

Mode

Previous

Next

Volume-

Volume+

Equalizer

DIGITAL MP3 PLAYER

● Display screen

Sound effect mode/Replay mode/Follow and contrast

Play state   Play time   Cycle mode   Song number

Work mode   ♪.■00:03▥▥.♫01◻   Display electric quantity

Aqua Barbie girl.mp3

Singer/Name of song

4. Basic functions

● Start up/shutdown

First time, you should dial the Power switch to the position of On, the player will start up automatically. To shutdown player by press and hold PLAY or dial the Power switch to the position of Off.

● Enter a menu

Menus: Main menu (entered by momentarily holding Mode key when not playing), Play submenu (entered by pressing Mode key while playing), and Stop submenu (entered by pressing Mode key when not playing).

● Browse Tracks

Browse forward by sliding Mode key clockwise and backward by sliding Mode key anti-clockwise;

Skip track forward or backward while playing song by sliding and holding Mode key clockwise or anti-clockwise;

Skip to next track or back to previous track while playing song by sliding and Mode key clockwise or anti-clockwise.
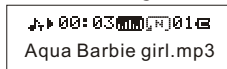
● Use different function modes

Go into different modes from main menu by sliding Mode key clockwise or anti-clockwise then pressing Mode key:
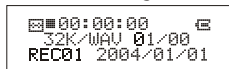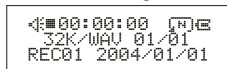
Main menu:

```
|🎬| ⚇ | ⏻ | 🎦|
      Music
```
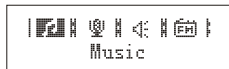
Select Music mode, display shows something like this:

```
♪▶00:03🔊⟨⊡⟩01⊑
Aqua Barbie girl.mp3
```

Select Record mode, display shows something like this:

```
📧■00:00:00      ⊑
    32K/WAV 01/00
REC01 2004/01/01
```

Select Play mode, display shows something like this:

```
◁■00:00:00   ⟨⊡⟩⊑
    32K/WAV 01/01
REC01 2004/01/01
```

Select System setup, display shows this:

```
|🔧| ⚆ | En | 🖥|
   Record Time
```

Select FM mode, display shows something like this:

```
🔊              ⊑
      FM104.3
```
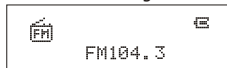
Enter USB mode by connecting with PC:

```
🔌USB Busy...
Music Disk
```

● Adjust volume

Decrease volume by pressing VOL-; increase volume by pressing VOL+.

● Press PLAY

Play or stop (or pause while recording); exit from submenu.

● Battery recharge

Connect MP3 player to PC via the USB cable, the battery will recharge automatically. If the battery icon on the player screen flicker ceaselessly, that means the battery is recharging, otherwise means it is full, not need to recharge.

▽ Attention:

Please dial the Power switch to the position of ON before you connect the MP3 player to PC, otherwise the battery icon on the player screen will not flicker anytime, so you can't see the recharge status.

5. Operation

● Music mode ♫ , Play mode ♫

KEY	Action	Stop state	Play state	Play submenu	Stop submenu
Play	Press	Play	Stop	Exit from menu	Exit menu
	Hold	Shutdown	Shutdown	Shutdown	Shutdown
Mode	Long press	Enter main menu	Enter main menu	Enter main menu	Enter main menu
	Press	Enter/stop submenu	Enter/play submenu	Select option or enter next level	Select option or enter next level
Next	Dial	Next song	Next song and play it	Move submenu	Move submenu
	Hold	Browser forward continuously	Skip forward	Move forward continuously	Move forward continuously
Last	Dial	Last song	Last song and play it	Move submenu	Move submenu
	Hold	Browser backward continuously	Skip backward	Move backward continuously	Move backward continuously
Vol+	Press	Increase volume by one step	Increase volume by one step	X	X
	Hold	Increase volume continuously	Increase volume continuously	X	X
Vol-	Press	Decrease volume by one step	Decrease volume by one step	X	X
	Hold	Decrease volume continuously	Decrease volume continuously	X	X

6

● Record mode 🎙️

Key	Action	Stop state	Record state
Play	Press	Start to record	Pause record
	Hold	Shutdown	Stop record
Mode	Press	Enter record submenu	X
	Hold	Enter main menu	X

● FM mode 📻

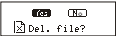| Key	Action	FM status	FM submenu
Play	Hold	Shutdown	Shutdown
	Press	Channels have been saved: Next channel Channels have not been saved: X	Exit menu
Mode	Long press	Enter main menu	Enter main menu
	Press	Enter submenu	Confirm current option or enter submenu
Next	Dial	Increase 100KHz gradually or stop	Move submenu
	Hold	Increase 100KHz search continuously	Move forward continuously
Last	Dial	Decrease 100KHz gradually or stop	Move submenu
	Hold	Decrease 100KHz search continuously	Move backward continuously
Vol+	Press	Increase volume by one step	x
	Hold	Increase volume continuously	x
Vol-	Press	Decrease volume by one step	x
	Hold	Decrease volume continuously	x

6. Play music

● Add and Delete files

To add and delete music file on your PC or Notebookcomputer to your MP3 player, simply connect the unit to the USB port of your PC or Notebook computer, click open the "RemovableDisk" drive then you can add or delete files.
Before you disconnect the player, please follow these steps or it may result in lost of files:
1). Double click the "Safely RemoveHardware icon" in the dialog box.
2). Click stop and the next dialog box appears on the display.
3). Click "OK", then you can unplug the unit safely.

▶ Delete file in (stop submenu) mode

Files can be deleted under their respective modes.

1). On Stop mode.
 `♪00:03 01`
 `Aqua Barbie girl.mp3`
	2). Press Mode to enter "stop submenu".
	 `Local folder`

3). Dial Next or Last to choose "delete one" or "delete all".
 `Delete file`
	4). Press Mode to enter delete interface.
	 `Yes  No`
	 `Del. file?`

5). Dial Next to select "YES".
 `Yes  No`
 `Del. file?`
	6). Dial Mode to confirm and begin deleting.
	 `Delete...`
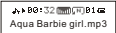
"Delete all" will delete all files of the current mode under the current directory. (For example, only music files will be deleted if you choose Delete All under the music mode).

⚠ **Attention:** you must eject player from USB if you delete files on PC, or it will tell you "the files are not deleted".

● Simple operation

1). Connect earphone plugging the pin of earphone into earphone jack.	2). Start up player and enter "Music mode" by holding PLAY momentarily; press PLAY to play music.
3). Choose music Last: choose last song Next: choose next song	4). Control volume VOL+: increase volume VOL-: decrease volume
Attention: All keys have no effect if keyboard is locked; ◇ Player will shut down automatically at set "Power Off/power- save mode" time.	

● Sound effect mode

1). Playing music ♪▸00:03 📼🎵01🔋 Aqua Barbie girl.mp3	2). Press EQ to change Equalizer. ♪▸00:32 📼🎵01🔋 Aqua Barbie girl.mp3

3). Instruction for all kinds of sound effect (EQ):

▭ (Natural effect, Natural)

▭ (Rock effect, Rock)   ▭ (Soft effect, Soft)

▭ (POP effect, Pop)   ▭ (Jazz effect, Jazz)

▭ (Classical effect, Classical)   ▭ (Heavy bass, DBB)

● Display synchronized lyrics (Karaoke function)

This player supports "LRC" files. (Search online for "LRC lyrics", play song and lyrics simultaneously.)

► How to use lyric files:

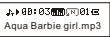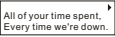Keep the names of lyric file and song the same.
Such as:
Name of song: Jay-Sky.mp3
Name of lyric file: Jay-Sky.lrc

► How to know whether a song has lyrics:

If there is a lyric file matching the song, the icon $\downarrow$ on the upper left corner of music mode should change to " $\downarrow_T$ ".

► How to display the lyrics:

1). Find lyric match with song:	♪►00:03▦▦🔂01↩ Aqua Barbie girl.mp3	2). Press and hold Mode to enter lyric interface.	
3). Display lyrics.	All of your time spent, Every time we're down.	4). Return to music mode by pressing Mode.	♪►00:03▦▦🔂01↩ Aqua Barbie girl.mp3
5). Cycle lyrics manually: Turn lyrics forward or backward by pressing VOL+ or VOL-			

7. Voice recorder

Make sure batteries have enough energy for recording.
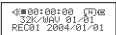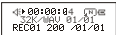Save ninety-nine recorded files in every directory.

● Record mode

1). Enter main menu.	`⊞♪ ▣ ◁ 🕮` Music	2). Dial Next to choose record mode.	`♪ ▣ ◁ 🕮` Record
3). Press Mode to enter record mode.	`⊞■00:00:00 ⊞` `32K/WAV 01/00` `REC01 2004/01/01`	4). Press Play to start recording.	
5). Other operations use steps 1 through 3.		6). Voice recordings are saved in the current directory; set in "stop record/submenu/ directories of main disk"	

▽ If "The space is full" displays, there is no more space for new files; delete other files to open more space.

▽ If "The directory is full" displays, there are 99 record files in the current directory; delete files or switch to another directory.

● Choose record type

1). At the interface of stop record.	`⊞■00:00:00 ⊞` `32K/WAV 01/00` `REC01 2004/01/01`	2). 2. Press Mode to enter record submenu.	`ROOT`
3). Dial Next, choose the submenu "record type":	`▷⌂` REC type	4). Press Mode to enter the option:	Fine REC
5). Dial Next to choose record type.		6). Press Mode to confirm your choice.	
7). Press Play to start recording (VOR can pause recording).		8). Record type: `WAV` : high-quality, WAV format `ACT` : long recordings ACT format `VOR` : high-quality, sound control, WAV `VOR` : long records, sound control, ACT	

● Play recorded files

1). Enter main menu.	![display] Music	2). Dial Next to choose "Voice mode".	![display] Voice
3). Press Mode to enter Voice mode.	00:00:00 32K/WAV 01/01 REC01 2004/01/01	4). Press Play to start playing.	00:00:04 32K/WAV 01/01 REC01 200 /01/01
5). Choose record file: Last: choose last record file Next: choose next record file		6). Control volume: VOL+: increase volume VOL-: decrease volume	

8. Transfer recorded file of ACT into WAV on your PC

Files recorded into the player in ACT format can be changed into WAV format with the installation program:

1). Run "Sound Converter", click "open"

2). Choose the ACT files you want to change

3). Click "Transform" to start transforming to WAV files

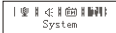Besides transforming ACT into WAV, this tool can also play files of WAV and MP3.

9. How to use FM

1). Enter main menu.	2). Push Next to select FM Mode.
3). Press Mode button to enter FM Mode.	4). Search automatically Push on Last/Next for 2 seconds, the player search forward or backward with 100Khz and stop the searched channel. Stop searching by pressing Last/Next if you want to stop it.
5). Minitrim Push Last: backward one step with 100KHz Push Next: forward on step with 100KHz	6). Save the frequency has been searched: Press Mode button to enter FM submenu. Press Mode button again to save the channel.
7). Select tune the channel has been saved Tune backward with the order by pressing Play button if there are more than one channel have been saved.	8). Control Volume: VOL+: to increase volume VOL-: to decrease volume
9). FM Inner record Press Mode button to enter FM submenu and select Record Mode.	Attention: Select "Normal Band" (FM 87 - 108MHz) and "Japanese Band" (FM 76 - 90MHz) to suit with different region. (Press Mode button to enter FM submenu, Push Next to choose right band range.) "STEREO" should show on the screen if the current channel is dimensional sound channel.

10. System Setup

● How to enter

Set system parameters here; every option should change with firmware upgrade.
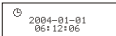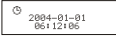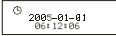
1). Enter main menu.		2). Dial Next to choose "System setup".	
	Music		System
3). Press Mode to enter "System setup".			
		Record Time	

● Brief introduction to every option

Record time	Set save time and date for record files
Backlight	The number of seconds the display light stays on
En Language	Set different language
Power Off	Set a timer to shut player down automatically
Replay mode	Set the replay to manual or automatic
Contrast	Adjust the contrast of display screen
Online mode	Set the "dream space" function
Memory Info	View the memory space filled (megabytes and percent)
Firmware version	Display the version of installed firmware
Firmware Upgrade	Exclusively used for upgrading firmware
Exit	Exit the current interface

● Detailed operating instruction

▶ Set "Record time"

1). Interface for system setup.	2). Press Mode to enter the record time interface.
Record Time	2004-01-01 06:12:06
3). Press VOL+/- to select number to change:	4). Dial Next/Last to increase/decrease number:
2004-01-01 06:12:06	2005-01-01 06:12:06
5). Exit by pressing Mode after change.	

▶ Set Backlight time

1). Interface for setting system.	Record Time	2). Dial Next to choose "Backlight".	Backlight
3). Press Mode to enter interface.	<<3>>	4). Dial Next/Last to adjust time.	<<5>>
5). To exit press Mode after change.			

▶ Set Language

1). Interface for setting system.	2). Dial Next to select "Language".
Record Time	Language
3). Press Mode to enter interface.	4). Dial Next/Last to select language.
English	French
5). To exit press Mode after change.	

▶ Set Power off

See "Backlight time", operations are the same, then:

◇ Power-save mode shuts it down automatically if in the set time no key is pressed and player is stopped;

"0" denotes that this function has been closed;

"Sleep mode" shuts it down automatically if in the set time no key is pressed whether player is stopped or playing. Works once after being set.

▶ Set Replay

Press Mode to enter interface, Dial to choose:

"Manual mode" denotes that you set a pause manually;

"AUTO mode" denotes that it can pause automatically in replay.

▶ Adjust Contrast
See "Backlight time", operations are the same.

▶ Online Mode
Operating systems earlier than Windows 2000 Service Pack 4 cannot support two partitions. To display chosen disk after connected to PC, You need to choose which disk you want to use between "single normal disk" and "single cryptographic disk" after use the function of "dream space".

▶ Memory Info
The number denotes capacity of disk, percentage denotes the space used.

▶ Firmware Version
For view the current edition of firmware of player.

▶ Firmware Upgrade
Enter this interface to upgrading your firmware.

� **Advanced Tip:** Exit menus rapidly by pressing Play after setting options. This function works on any menu.

11. Use USB disk

This player has a standard USB function, supports Windows98 (a driver needs to be installed), Windows 2000 and newer (drivers need not to be installed), MacOS X 10.3 or Linux Red Hat 8.0 or newer.

This player can be supplied power via USB, and can be played without batteries. From the main menu, choose the work mode you want and enter it. (To enter the main menu from Standby, press Mode.)

To connect with PC, plug into USB connector. The player has three display modes:

(1). Standby State

```
⎗USB
Music Disk
```

(2). Downloading state

```
⎗USB Busy...
Music Disk
```

(3). Uploading Mode

```
⎗USB Busy...
Music Disk
```

● New folder

This machine supports up to ninety-nine one-level folders created by the user.

12. Upgrade player

Upgrade this player or service the system firmware with the utility installed on the PC.

1). Enter main menu. Music	2). Dial Next to choose "system setup". System
3). Press Mode to enter "system setup". Record Time	4). Dial Next to choose "firmware upgrade". Firmware upgrade
5). Press Mode to enter "firmware upgrade". F/W UPGRAD	6). Connect player to PC.

7). Run the upgrade tool "MP3 Player Update" on the computer, click the button called "Choose new edition of firmware file".

8). Choose new firmware from the CD, or download form the homepage of the factory.

9). Click the "begin upgrade" button to start the upgrade.

10). Upgrade should be complete, follow prompts displayed on player:

```
USB
☺ Success!
```

⚥ Upgrades for firmware are for improvement and optimization of the performance of the player. It could impact normal operation if you fail to upgrade firmware.

⚥ Upgrading the firmware could cause the player to function incorrectly if not done properly. Please read the instructions before you begin. This operation is meant for people who have some computer experience.

⚥ Upgrade software for the player is not suited for other series of players.

13. Miscellaneous settings

● Choose different directories (stop submenu)

In order to play and manage sorted files, users can put files into directories (directories need to be created beforehand). This player supports ninety-nine one-level subdirectories.

1). Directories can be made under record, stop and play modes. 上■08:03▣▣〒01✎ Aqua Barbie girl.mp3	2). Press Mode to enter "Stop submenu". ▮▱▤▮▯▮大▸ Local folder
3). Press Mode again to enter choose directories interface. 📂ROOT	4). Dial Next or Last to choose directories. To select a chosen directory press Mode. 📂M2M

⚥ **Attention:** Directories within a mode are independent of the other modes' directories. They may be given the same name and same settings as directories in other modes, but they will not intersect or otherwise correspond.
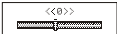
● Play mode (play submenu)
You can choose different play modes while playing music or record files.

🔁 Normal	Play all the music in normal mode
🔁 Repeat One	Repeat to play one single music file
🔁 Play Directory	Play all the music in current folder
🔁 Repeat Folder	Play the music in all folders
🔁 Repeat All	Repeat to play all music in current folder
🔁 Play Random	Play the music in current folder at random
🔁 Browse and play, Intro	Play ten seconds of songs in the current folder

● Play speed (Play submenu)
You can choose different play speeds for MP3 files and record files.

1). Playing music. ♪ 00:03 001c Aqua Barbie girl.mp3	2). Press Mode to enter submenu. Repeat
3). Dial Next to choose "Tempo rate". Tempo rate	4). Press Mode to enter "Tempo rate" menu. <<0>>
5). Dial Next to speed up, Last to slow.	
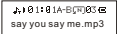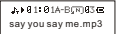
⍓ Attention:

The speed setting will apply to all songs until changed.

● Replay mode (Play submenu)
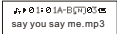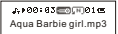
Enter by pressing "REC/A-B" directly or from submenu.

▶ A-B replay

1). Play music or record. ♪ 00:03 🔲 01 🔋 Aqua Barbie girl.mp3	2). Press Mode to enter play submenu. 🔲 Repeat
3). Press Mode to enter "Replay mode": ♪ 01:01 A-B 🔲 03 🔋 say you say me.mp3	4). Dial Next to confirm starting point A. ♪ 01:01 A-B 🔲 03 🔋 say you say me.mp3
5). Dial Next to confirm starting point B Repeat play between A-B, exit Reread after setting times; Set point A again (see "Replay times" below for play time)	

⍓ Under Replay mode, set "Tempo rate" directly by pressing VOL+ or VOL-.

▶ Follow-read (play mode not have this function)

1). Replaying between A-B. ♪ 01:01 A-B 🔲 03 🔋 say you say me.mp3	2). Dial Next to enter Follow-read mode. ♪ 00:03 🔲 01 🔋 Aqua Barbie girl.mp3

| 3). It begins to record the voice of user when Replay icon A-B changes to follow-read icon 🔲, length is the same as the time of the A-B replay. | 4). Play original voice if the time ends and the icon changes to 🔲, dial next to enter this function at this time. |

▽ Return to "A-B replay" by dialing Last under this mode.

▶ Contrast function (play mode not have this function)

1). The reread icon displays as 🔲, after entering this function. It plays original sound.	2). Icon changes to 🔲 after playing original sound. Now it plays the follow- read sound of user.
3). Plays original sound again after playing follow-read sound of user, repeats until Mode is pressed to exit.	

▽ Dial Last to go back to "Follow-read function".

● Replay times (Play submenu)
The replay times determines how many times it should replay A-B before exiting.

● Replay separation (Play submenu)
Replay separation determines the number of seconds between plays.

14. Important recommendation

⚡ Function of "Dream space"

In the past, MP3 users who wanted others to see his individual data could only delete their privacy settings while friends borrowed his MP3.

Now, the function of "dream space" solves that problem.

Using the included utilities, users can separate the disk into two partitions with optional proportions. Two drives will show up on the computer (Windows 2K needs SP4, or you will find one disk only). Choose "single normal disk" or "single encrypted disk" under "system setup/online mode" and encrypt one of the disks to hide the content. This data can not be viewed without a password. This is "dream space".

1). Connect player to PC;

2). Run the MP3 player disk tools;

3). Format first, choose the "encrypt subarea" option, choose appropriate content;

4). Input username at "new username", input password at "new password", input the same password at "confirm password", click "start" to begin the partitioning;

5). Finish the partition and follow the prompts;

6). PC will ask to restart, press "Yes";

7). You will find two disks after rebooting (Win 2K SP3 and earlier will find one);

8). There are three files in the encrypted, two hidden files and an executable file;

9). Run "RdiskDecrypt.exe", input username and password in dialogue box;

10). You must input user name and password every time you connect it with a PC.

∇ **Attention:** Data in disk will be erased if you separate the disk into two sections, please back up the data on the disk beforehand. Uniting two disks into one disk will also clean out the data.

∇ **Warning:** Do not lose your username and password. You can only erase the encrypted disk by uniting partitions, which will erase the files.

15. Definition

WMA

Short for Windows Media Audio, WMA is Microsoft's digital music format. WMA is probably the most widely used format, universally supported by almost every online music service and digital music player (except Apple).
WMA comes in both a copy-protected and non-protected version.

MP3

Short for Moving Pictures Experts Group-1, Layer 3, MP3 is still used as general terminology for any type of digital music file. In reality, MP3 is not the default format for most online stores and digital music players. Most online stores automatically convert MP3 files to their default format (WMA or AAC) before transferring the files to a digital music player.

16. Troubleshooting

No power	☆ Check if the batteries are installed correctly; ☆ Check if the USB connection is solid; ☆ Check if the player has been started.
No sound in earphones	☆ Check if the volume is turned down; ☆ Check for a problem with the connection of earphones; ☆ Ensure the cleanliness of the earphones; ☆ Damaged MP3s can play differently, or not at all.
Unusual situation with the word displayed onscreen	☆ Check whether you have chosen the right language.
Reception of FM is bad	☆ Adjust the positions of earphone and player. ☆ Shut down nearby electronics to reduce interference. ☆ Use earphone as antenna.
Can not download music normally	☆ Check if the USB line is broken or connected solidly; ☆ Check if the correct driver is installed; ☆ Check if the drive is full or damaged.
Can not played the Music files	☆ Check the digital format. This player does not support DRM files.

Note:
"DRM" Stands for "Digital Rights Management". DRM refers to a collection of systems used to protect the copyrights of electronic media. These include digital music and movies, as well as other data that is stored and transferred digitally. For example, the Apple iTunes Music Store uses a DRM system to limit the number of computers that songs can be played on. Each audio file downloaded from the iTunes music store includes information about the owner of the file and how many times the file has been transferred. The protected files will not play on computers that have not been authorized to play the music.

17. Technical specification

Connection to PC	USB2.0 full-speed	
EMS memory	Flash storage: 64MB - 1GB	
Power supply	One AAA（No.7）alkaline battery	
	The longest play time:10H	
Record	Sampling rate	8KHz
	Record format	WAV (32K bps), ACT (8K bps)
	Record time	35H (ACT, 128M Flash)

MP3, WMA, WMV, ASF	Highest output of earphones	(L) 10mW+ (R) 10mW (32Ohm)
	MP3 bit rate	8K bps - 320K bps
	WMA, WMV, ASF bit rate	5K bps - 384K bps
	Frequency response	20Hz to 20KHz
	SNR	85dB
FM wireless	Range of received frequency	76MHz-96MHz/87MHz-108MHz
	Number of channels saved	20 20
	SNR	45dB
Music format		MP1, MP2, MP3, WMA, WMV, ASF, WAV
Temperature		-5 - 40℃
Multi-language show		Simple Chinese, Trad Chinese, Japanese, Korean, English, French, Italian, German, Spanish, Swedish, Portugal, Danmark, Dutch
Supported operating systems		Windows98/SE/ME/2000/XP/2003, Mac OS 10, Linux 2.4.2

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