# Acer MP-320

**User Manual** 



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## **Unique Features**

Mass Portable Storage Player

- 1. This player can be used as the portable hard disk (the capacity is 20G). No driver is necessary under WinMe/2000/XP.
- 2.Unique USB Host Functions Hard disk player can read the file from the other standard USB Device
- 3.High speed transfer, USB2.0 standard interface, compatible with USB1.1 Hard disk player supports USB2.0 with the highest rate of transmission up to 20Mbyte/s.
- 4.Large screen LCD with high resolution 128 X 128 Dot Matrix 4 Gray With Backlight
- 5.Support multi music formats: including MP3 (MP3 of VBR format supported) and WMA
- 6.Convenient firmware upgrade

The latest functions can be acquired through the firmware upgrade.

New formats will be supported through the simple upgrading; meanwhile, the other functions will be provided constantly.

7.Support multi-languages display of ID3 Support various languages of ID3, including simplified Chinese, traditional Chinese, Japanese, Korean and English

- 8.FM radio (87.5MHz~108.0MHz) Auto-scan and memorize desired channels are more convenient to listen to the FM radio.
- Provide five types of equalizer (EQ): Normal, Classic, Jazz, Rock and user EQ, making music more abundant.
- 10.Supporting 3D effect, 15-level Bass Boost and 15-level Treble Boost, making music more colorful
- 11.Easy to use file navigation
- 12. Treeview navigation menu enables you to find the music conveniently
- 13.Up to 2000 folders and 9999 files can be recognized
- 14.Graphical User Interface
- 15.Recording by Mic or Line\_In
- 16.Supporting Bookmark Function
- 17.Supporting PlayList Function
- 18.Supporting TXT file navigation, namely, the e-book function

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## Front Part



Volume-

## Side Part



SRS/Mode

#### CHARGE LED







## Using the AC adapter

- The AC adapter supplied with the player can be used only.
  Working voltage of the AC adapter of the player is 100/240V, 50/60Hz.
- 2. Connect the adapter to the DC jacks of the AC power and the player

#### Charging

- When the player is powered on, the status of the battery indicator shows the battery capacity of the player. When the battery is low, the icon will be twinkling. After twinkling for a while the system will be shutdown automatically. The battery must be charged immediately, otherwise the player cannot continue to work. Before connecting the player to the computer, please make sure that it is in low voltage, or the connection to the PC will fail.
- 2. Charging will start automatically after the adapter is connected to the power. In the power-on status, the power-connecting icon is shown in the position of the original battery indicator icon. It shows that the battery is being charged and the red LED is always on. When charging in the power-off status, the red LED is always on.

When the battery is fully charged, the battery indicator is fully filled in and the red LED will be off.

Charging time: about 3 hours (after the battery is fully discharged)

Discharging time (playing time): about 12 hours (the longest playing time after the battery is fully charged)

Playing time is measured during playing 128Kbps Mp3 files in the fully charged status. (It is practically measured without any operations)

#### Software Installation

Windows 2000 and Windows XP themselves can support USB2.0 storage device (PC must be with USB2.0 port, otherwise it will be transmitted by the USB1.1 standard), but Windows 98 requires the driver to be installed. We supply you with the manager software of the hard-disk player and the driver. After the installation is completed, you can now operate the player.

Please plug CD to CD-ROM, then it will install software automatically if you did not close CD-ROM Auto function. Then execute Next step one by one, you can finish installing. During installing, if you use Win98 operation system, it will setup Win98 driver for HDD player automatically.How to Use Software Managerment **How to Use Software Managerment** 

If you install software managerment, you can use it to manager your HDD player.

1.Turn on your player, then connect it to PC, while PC find device, please execute managerment software.

2. You can use this software to edit playlist function.

3. You can use this software to change language.

4. You can use this software to download file and upload file to HDD player.

You can refer to online help in the software to use this software.

#### Connecting to the Computer

- Press and hold the "Play" button to turn on the player. (Warning: please make sure whether the battery of the player is sufficient. If it is not enough, please connect the adapter to the power to guarantee enough battery)
- Connect the player and the computer properly with the USB cable. The big end of the USB cable should be connected to the USB port of the computer, and the other end should be connected to the USB Slave port of the player.

The LCD of the player shows:



 The "Device connected" icon will be shown on system bar under Windows 2000 and Windows XP. (Under Windows 98, it can be connected properly only after the installation of the driver is finished.) 4. After the installation is completed, a portable hard disk will be added in My Computer/Explorer. The files in the hard-disk player can be operated by the Explorer or the Manager software we supply. The hard-disk player can be used as a normal hard disk, and the files can be copied, deleted, etc.

When the hard-disk player is to be connected to the computer for a long time, please connect the AC adapter. The low battery will cause improper working of the player. (When connecting to the PC, if the battery is too low, the player cannot connect successfully)

#### **Disconnecting to the Computer**

Use "Safety Remove" to disconnect the player to the computer, namely, double-click the right corner of the task bar on PC, select "Safety Remove". After the system displays "Removed Hardware Safely", the USB cable connected the player to the computer can be removed.

#### Warning:

Do not disconnect the player to the computer when the player is working.

The player can be disconnected only after the file copying is completed.

#### Operations

**Operations:** 

#### **Basic Operations**

1.	Power On	Press and hold the "Play/Pause/Power On" button
2.	Play/Pause	In the playing status, press the "Play/Pause/Power On" button.
3.	Stop Playing	Press the "Stop/Power OFF" button.
4.	Fast Forward	In Music playing status, press and hold the "Right" button.
5.	Fast Reverse	In Music playing status, press and hold the "Left" button.
6.	Play Previous Tr	<b>ack</b> In Music playing status, press the "Right" button.
7.	Play Next Track	In Music playing status, press the "Left" button.
8.	Power Off	Press and hold the "Stop/Power OFF" button.
8.	Volume Adjustme	ent In Music playing or FM status, press the "+/-" button.
10.	File Selection	In the file navigation status, press the "Right/Left/+/-/ Menu"

button. Press the "Menu" button to enter the file navigation interface, press the "Right" button to enter a folder or select a file, press the "Left" button to exit the current directory, press the "+/-" button to select the different file or folder, and press the "Menu" button to confirm.

- 11. Mode Switch Press and hold the "Mode" button to enter the mode switch.
- 12. Section Definition Press the "A-B" button.
- 13. **Recording** Press and hold the "A-B" button.
- 14. Menu Display Press and hold the "Menu" button.
- 15. Hold button On/Off

#### Playing Music

- 1. Connect the earphone
- 2. Unlock Hold
- 3. Press and hold the "Play/Pause/Power On" button for 2 seconds to turn on the player, and the power-on picture displays. After the system information is read, it will enter the file list. (This procedure needs some times because the speed of scanning hard disk is much slower.)



4. Track selection: Press the "Menu" button to enter the file navigation status, and select different folders or files by pressing the "Right/Left/+/-" button, then press the "Menu" to enter a folder or select a file to play. In the file navigation status, the definitions of buttons are: "Right" – select the function, "Left" – exit the current folder, "+" – select upward, "-" – select downward, "Menu" – confirm the function.



It begins to play after the track is selected. Press the "Play/Pause/Power On" button to pause, and then press it again to continue playing. The playing interface displays the information of current track. In the playing status, the information is shown: the first line shows the folder which the current song file is in; the second line shows the name of the song (If this song has ID3 information, the title of the ID3 will display after displaying the song name once); and the third line shows the Artist of the ID3 (Refer to the LCD)



- 5. Volume Adjustment: Press the "+" button to increase the volume and the "-" button to decrease the volume. The digital number of the icon at the right corner shows the current volume.
- 6. During the playing, press and hold the "Right" button

to make fast forward, while press the "Right" button to switch to the next track; press and hold the "Left" button to make fast reverse, while press the "Left" button to switch to the previous track.

- 7. Press the "Stop" button to stop playing, and return to the file list.
- 8. Press and hold the "Stop" button to shut down the player, and then the shutdown picture will show.



When "Hold" is on, the icon appears, and buttons on the player are invalid.

In the stop status, you can set the "Auto Off" time in the setting menu, the player will be shut down automatically according to the setting time.

#### **Section Repeat**

When the player is playing, you can use section repeat function to repeat one section of the music. In the playing status, press the "A-B" button to select the start position (A point).



During the playing, press the "A-B" button again to select the end position (B point).



The player will repeat the section from A to B.

#### Browsing

After pressing the "Menu" button, use "Right/Left/+/-" button to find and select the track. If the audio file is selected, the player will enter the playing interface. If the non-audio file is selected, the player will not respond.

Press the "Menu" or "Right" button to enter the lower folder. Press the "Left" button to return to the upper folder. When the root directory is reached, it will stop.

#### Mode Switch



Press and hold the "Mode" button or use the menu to enter Mode Switch.

Press the "+/-" button to switch among the six modes such as MP3 status, FM status, Recording status, Data Backup Browsing status, Playlist status and e-book. Press the "Left" button to exit the mode interface. After selecting the corresponding mode, press the "Menu" or "Right" button to confirm the mode switch. Press the "Stop" button to exit the mode and return to the file list.

#### USBDATA Data Browsing Mode:

After entering the Backup Data mode, you can see the files in the USBData directory, which come from the Device connected to the USB Host. If you backup the peripheral USB Device by USB Host function, you can view the backup USB Data by selecting this option. Refer to the below figure: (Note: At present it only supports the connection to standard Mass Storage USB devices which must use FAT or FAT16 file storage format, otherwise the system will display "Device Error").



#### Playlist Function:

You can select your favorite songs to play, which means the player can support Playlist function. Select the Playlist option in Mode status to enter the list of Playlists and see the corresponding Playlist, then you may select to play the Playlist.

How to add and delete songs in BMK list of Playlist

You can edit Playlist files by the manager software, and the files can be put in the Playlist folder in the hard disk so that you can manage these playlists. Also, you can set Playlist function in the player port, namely, there is one default Playlist (BMK List) in the player. In the file navigation status (press the "Menu" button to enter File Navi mode), you can select the song to be added to BMK List, and press and hold the "Play" button to finish. The song added to Playlist will be shown as below:



As the above figure, ICON shows the two songs Flower and Yesterday are added to PlayList. You can also delete the song from Playlist: select a song which is added to the playlist, and then press and hold the "Play" button to delete it from Playlist. Now if you enter the Playlist mode and select one Playlist to play, then the songs in this Playlist will always play.

#### E-Book Function:

You can save the TXT files in the TEXTFILE folder in the root directory of hard disk, then you may read the e-book by selecting "Text viewer" option (Note: the e-book can be directly copied to the TextFile directory in HDD, but the capacity should not be more than 64K bytes). After entering the Mode, you can select the "Text Viewer" mode, then press the "+/-" to select the Text document you want to read, press the "Menu" button to enter the Browse status, and press the "+/-/Right/Left" button to page up or page down the e-book. To return to the Text document browse status, press the "Menu" button.



#### Receive FM Radio

Enter FM status through the mode switch:

1. When the "Preset" button is invalid, press the "Right/Left" button to adjust the current channel in 0.05 MHz step. Press the "+/-" button to adjust the volume. Press and hold the "Right/Left" button will automatically search the next valid channel.



2. When the "Preset" button is valid, press the "Right/ Left" button to switch to the next/previous stored channel.

3. Auto scan function: Press and hold the "Play" button in FM status to enter the Auto Scan mode, the player will automatically save the top 20 channels as CH01 to CH20. "PRESET" tag will change to "Auto Scan" tag and the channels will scroll automatically. After the scan is over, "Auto Scan" tag will automatically switch to "PRESET" tag. (Please plug the earphone when automatically scanning the channels. The earphone works as the antenna in FM status.) 4. Press the "Menu" button to switch between the Preset mode and Manual Scan mode. The user can set some channels as needed or delete some disliked channels. After switching to Manual Scan mode, the "PRESET" tag will disappear.

5. Under Manual Scan mode, press the "Right/Left" button to increase/decrease 0.05MHz. Press and hold the "Right/Left" button to automatically scan the adjacent channels. If the channel that is found has not been saved, you can press the "Mode" button to save the channel. In this case, after pressing "Mode" button, "Memory" tag will show at the location of "Preset" tag, and then press the "Right/Left" button to select the saved destination, such as CH01 to CH20. Press the "Mode" button to finally confirm. "Memory" tag then disappears and the saving process is completed.

In the FM status, you can press and hold the "A-B" button to record the FM radio. The screen shows as below.



To stop the record, press the "Stop" button and return to the FM status.

#### Record

Enter the record screen through mode switch or pressing and holding the "A-B" button. The screen shows as below.

1. Press and hold the "A-B" button to enter the record screen directly. (In this case, if "Line-In" is connected, then the "Line-In" content will be recorded as MP3 sound files, otherwise the sound source will be the MIC). Press the "Rec" button to halt the record, press again to resume the record. Press the "Stop" button to stop the record, and the screen will display "Waiting..." and the player is generating the recorded file. After returning to the file list, the current recorded file. After recorded file will be saved under the directory of "RECORD\ENCODE". If the recorded file is in WAV format, the recorded file will be saved under the directory of "RECORD\VOICERECORD".

2. The operation of playing recorded file is the same as that of playing music file. Change to "REC" mode through mode switch, and select the specific recorded file or music file to play.

3. In the FM status, press and hold the "A-B/Rec" button to enter the record mode. Then the current FM radio program can be recorded. Press the "Stop" button to return to the FM status.

4. To record from other sources, connect the LINE\_IN jack with the LINE\_OUT jack or earphone jack of the external sound source by using the auxiliary input/output cable supplied with the player, press and hold the "A-B" button to start the recording. If the "Synchronous" is set to "On" in the "Rec Setting", then 2 successive songs will be separated automatically in between when recording them in MP3 files.

Before the recording starts, the player will check if the left space is enough. If not, the player will display "No Enough Space". When the "Memory" displays as "100%", the recording will not be available.

Please refer to the "Rec Setting" item of the menu for the detailed recording settings.

Through the LINE\_IN interface, you can record from the CD or MP3 player. Please make sure the external audio source is in playback mode before the record starts. (It is recommended to use the maximum volume when making the record.)

### **Menu Function**



Press and hold the "Menu" button to enter the menu. There are 5 main menus and 3 sub menus. Press the "+/-" button to shift among the menu items. Press the "Right" or "Menu" button to select or enter the sub menu. Press the "Left" button to return to the upper menu and press the "Stop" button to exit the menu operation. You can make the settings after entering the menu.

Main menu



Sub menu



The menu items of "Mode" are the same as that after pressing and holding the "Mode" button. Please refer to the mode switch as above. Use "Display/Backlight" to set the backlight on time. When the player is idle, the backlight will be off after the preset time duration. Press the "Left/Right" button to select among "off/5 sec/10 sec/15 sec/20 sec/all". "Off" means backlight off, all means backlight always on. Press the "Menu" button to confirm and return to the main menu.

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10s	<b>1</b> 15s	
20s	A11	

Use "Display/Contrast" to set the contrast of the LCD screen. Use the scroll bar to display the current value, which is between 0 and 32. Press the "Left/Right" button to increase or decrease the value. Press the "Menu" button to confirm and return to the main menu.

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Use "Display/Time" to set the display method of the playback time of the playback interface. "Normal" means the time duration that has already elapsed in playback. "Remain" means the remaining time in playback. Press the "Left/Right" button to select. Press the "Menu" button to confirm and return to the main menu.



Use "Display/ID3 language" to set the display language of ID3, which can be specified to simplified Chinese, traditional Chinese, Japanese, Korean and English. Press "Left/Right" button to make the selection, press "Menu" button to confirm and return to the main menu. If you select Sim Chinese, the user interface will change to Sim Chinese, others will not change.



Use "Setting/Auto Off" to set the auto off time when the player is idle. Press the "Left/Right" button to select among "OFF/1 min/2 min/5 min/10 min". When "OFF" is selected, the player will never be automatically turned off. "1 min/2 min/5 min/10 min" means the player will be automatically turned off after 1 min/2 min/5 min/10 min when the player is in "Stop" or "Pause" status. Press

the "Menu" button to confirm and return to the main menu.



Use "Setting/Speed" to set the ID3 scroll display speed. Press the "Left/Right" button to select among "1x/2x/3x/4x". If the length of the ID3 information of a music file exceeds the LCD screen display, then it will be scrolled and displayed in 1x/2x/3x/4x. Press the "Menu" button to confirm and return to the main menu.

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<b>3</b> ×	💻 4×

Use "Setting/Fast Charge" to set fast charge or normal charge. Press the "Right/Left" to turn the fast charge on/off after entering the setting interface. When the fast charge is selected, the battery can achieve 80% capacity after 1-hour charge. Please refer to the picture.

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Use "Setting/EQ" to set the EQ mode. Press the "Left/Right" to select among "Normal/Rock/Classic/Jazz/User EQ". When the User EQ is selected, the vertical scroll bar at the bottom will be highlighted in 1~5 parts. Press the "Left/Right" button to switch among different diapason. Press the "+/-" button to adjust the value of different diapason. Press the "Menu" button to confirm and return to the main menu. The user can set the playback EQ according to the music type or your preference.

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Use "Setting/Repeat" to set the playback repeat mode. There are following 9 types of repeat mode.

In Normal mode, "One Song" means to stop after playing one song. The icon is 😅;

In Normal mode, "One Folder" means to stop after playing all songs under one folder. The icon is 👼;

In Normal mode, "All Songs" means to stop after playing all songs in the disk (by default). The icon is I (1997)

In All mode, "One Song" means to play one song repeatedly. The icon is (),

In All mode, "One Folder" means to play all songs under one directory repeatedly. The icon is (1997);

In All mode, "All Songs" means to play all songs in the disk repeatedly. The icon is 🞯;

In Shuffle mode, "One Song" means to stop after playing one song at random. The icon is 😁;

In Shuffle mode, "One Folder" means to stop after playing all songs at random under one directory. The icon is 📵;

Press the "Left/Right" button to switch among

"Normal/All/Shuffle". Press the "+/-" button to switch among "One Song/One Folder/All Songs". Different icon displays when different playback mode is set, press the "Menu" button to confirm and return to the main menu.



Use "Setting/Bass Boost" to set the bass boost, which is classified into 15 levels. After entering the setting menu, press the "Right/Left" button to adjust the bass boost level. Press the "Menu" button to confirm and exit the setting menu.



Use "Setting/Treble Boost" to set the treble boost, which is classified into 15 levels. After entering the

setting menu, press the "Right/Left" button to adjust the treble boost level. Press the "Menu" button to confirm and exit the setting menu.



Use "Setting/3D Effect" to set the 3D surrounding effects. After entering the setting menu, press the "Right/Left" button to set the surrounding or cancel. Press the "Menu" button to confirm and exit the setting menu.



Use "Rec Setting/Enc Bitrate" to set the bitrate of encoding, which ranges from 64Kpbs to 320Kbps and is displayed by scroll bar. Press the "Left/Right" button

to increase and decrease. Press the "Menu" button to confirm and return to the main menu.



Use "Rec Setting/Voc Bitrate" to set the sampling rate of recording, which ranges from 32Kpbs to 128Kbps and is displayed by scroll bar. Press the "Left/Right" button to increase and decrease. Press the "Menu" button to confirm and return to the main menu.

Rec Setting/Synchonrous



Use "Rec Setting/Synchronous" to set the synchronous. After entering the setting menu, press the "Left/Right" button to select to turn the Sync function on or off. If "ON" is selected, then different songs will be recorded to different files when using Line-In. If "OFF" is selected, then all songs will be recorded to one file.

Use "Information" to display the information of the hard drive, such as the total disk capacity, used space, remaining space and the version of player. Press the "Left" button to return to the main menu.

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#### **USB Host Function**

With USB Host function, you can use the HDD MP3 player to read the files in other USB devices. When using the USB Host cable to connect other device, the message "Try to get device. Please Wait....." will display. At the same time, the file that is currently being played will be closed and enter the connection mode.



After the connection is established, the player will display the file lists of the external USB Device. In the first line, "Host" will display to replace the previous MP3 (REC, FM). In the list, the first line shows the name of the device, followed by the directory and files in the device. Press the "Left/Right" button to enter or exit the directory. Press the "+/-" button to select the directory or files under the current directory. Press and hold the "Play" button after selecting an audio file will copy it to the USB Data directory (this directory will be generated by the player automatically). Press and hold the "A-B" button will copy all files in the external USB Device to the USBData directory. Different directories will be created to contain the files in different devices. All files in one device will be stored in one directory, as shown below:

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Flower	
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<b>_</b> ,	Ų

When copying files, the whole directory will be copied if the folder is selected and switch to the copy screen.

HOST 8..... Big Big Word\_mp3 Copying... • 75% •

After the copy is completed, it will return to the file list. Before the copy starts, the player will check if the remaining space is enough to contain the files to be copied. If not, then "No Enough Space" will display. If the player finds the folder to be copied is blank, then "Error, No File" will display for 2 seconds and then disappear. If there is a file with the same name in the player, then "Overwrite? Yes No" will display. Use the "Vol+/Vol-" button to select "Yes/No". Press the "Menu" button to confirm and exit. After disconnecting and returning to the file list of the player, the USBData folder will display by default. At the same time, the Host icon changes to MP3 icon.

105	8-
-0	
I. Zasugh	Space

III 84	
Big Big Word .mp3	l
File Exist Overwrite? Yes No	

## Cautions

#### Avoid using the player in the following condition:

Excessive heat (above 40Degree); Direct sunlight or heating appliances; Humid environment such as bathroom; Environment with too much dust;

#### Protection of the player:

Avoid falling off or shock;

The player can be used when you are walking or running. However, falling off or shocking may cause damage to the player.

Do not disassemble the player.

Hardware damage may be caused.

Do not plug into any foreign objects.

Short circuit may be caused to damage the player.

#### Use of earphone:

Excessive high volume may damage your hearing. Please avoid continuous long-time playback in high volume. If you feel any uncommon noise in you ear, please lower the volume or take a rest.

Please do not wear the earphone when driving or

riding a bike. Accident may be caused. Stay cautious or stop using the player in the danger condition.

#### Troubleshooting

1. Buttons don't work

Check if the "Hold" button is "On". If yes, switch to "Off" and try again.

2. LCD display error

Check if the proper language is selected in the "ID3 Language".

3. Files cannot be downloaded after the player connects to computer.

Check if the computer mainboard supports USB2.0 device. System upgrade may be needed.

If you are using Window 98 operation system, you need to install the driver first.

Check if the player has free memory

 The player cannot be charged. Check if the AC adapter is properly connected. The fully charged battery cannot be further charged.

- 5. The player cannot be powered on. Check if the batter is charged.
- There is noise in playback Plug the earphone firmly. Check if the earphone pin is dirty (clean with soft dry cloth). Or the MP3 file is damaged.
- File transfer to the player fails Check the connection between the player and PC Check the battery capacity.
- 8. The PC doesn't work well sometimes when connecting and disconnecting the player.

It's mainly caused by plugging and unplugging the USB port when in the file transmission. Therefore, it is recommended not to disconnect the device during the file transmission, to avoid any abnormality in the PC end. Use the safe removal of device in the PC end.

9. Some MP3 files cannot be played in the player.

As there are various compression format and compression rate available, some music file formats are not supported by the player. Usually the player will skip these files. When you encounter files format that are not supported, please take one of the following two measures:

Delete the music files that are not supported.

Select the MPEG Layer 3 coding when compressing.

10. "USB Device Error" displays when the USB Host connects to USB device sometimes.

Currently, the USB Host function only supports the standard USB Mass Storage devices. More specifically, only the FAT/FAT16 Mass Storage devices are supported. Otherwise, the system will display the error message.

- The hard drive MP3 player contains a 1.8 inch hard drive. As the hard drive cannot be shocked, therefore, please protect the hard drive from falling off when in use.
- 12. When we encode MP3 file from other sound device, why looks like pausing in recording?
- Now if the other sound device did not have some content or sounds, the HDD player will looks it invalid sound source, it will work until it wait valid sound.
- 13. How to deal with so many folder in the Hard disk? Please do not copy different file to the default

folder, now there is 6 folders in default and also the folder can not delete(if you delete, it will create aumotically next times.)

Firmware folder is for existing firmware when you want to update your player.

ENCODE folder for existing Encoding file from Line In or FM radio.

Playlist folder for existing Playlist file.

USBDATA folder for existing USB host copying file.

VOISE RECORD folder for existing recording file by MIC.

TEXTFILE folder for exsiting TXT file to view e-book.

#### Accessory



Installation CD



Standard earphone



User manual



AC adapter



USB cable



USB adapter for connecting to computer



Line\_IN cable



USB Device adapter

## Specification

Memory capacity	20G 1.8 inch Toshiba hard	
	drive (built-in)	
Battery	1300 MAH/3.7 V	
-	rechargeable lithium battery	
LCD	128*128 4 gray scale display	
	with blue backlight	
USB port	USB2.0 high speed transfer	
	(16 Mbyte/s)	
USB Host	USB1.1 port (USB2.0 device	
	compatible)	
FM channel range	87.5MHz-108.0MHz	
Charge time	Battery charge time:3 hours	
	(achieve 80% battery after	
	1-hour fast charge)	
Play time	12Hours playback only	
SN rate	90Bb	
Earphone output power	5MW+5MW	
Output frequency range	20Hz-20KHz	
Record bit rate	32Kbps-320Kbps	
Music file format	MP3,WMA	
Record file format	VOC,MP3	
Support ID3 language of	Simplified Chinese,	
the music file	traditional Chinese,Korean	
	Japanese,English	
Support compression	8Kbps-320Kbps(MP3)/VBR	



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