

User's guide Digital Audio Player (EMP-100)





Preface

- · Thank you for purchasing this digital audio player.
- · Please read this manual carefully before using the player.
- Please be noted that this user's manual is subject to change without notice for improving product performance.

Precautions

· Please comply with the following instructions to prevent a risk or a physical damage through improper product usage.

1. Safety precautions

- ① Do not leave the player in the following places.
 - Place with high temperature (over 60°C)
 - Inside the window-closed vehicle
 - Place with high humidity like a bathroom
 - Place under the direct sunlight or close to heating material
 - Place with much dust
- ② Do not drop or apply strong shock.
- ③ Do not disassemble, repair or modify the product at your own discretion.
- Do not use the player in the restricted area like inside the aircraft.
- ⑤ If you apply excessive power to the LCD, it can be broken.
- 2. If the battery is totally flat during recording, the player will be automatically stopped. Make sure to check the available battery capacity before recording.

Product Features

This Digital audio player is a multiple codec player that supports various formats such as MP3, WMA and ASF.

What is MP3? MP3 is short for MPEG1 (Motion Picture Experts Group) Audio Layer 3. It is one of the file formats that save various audio data with digital method. MP3 maintains the sound quality similar to that of CD while compressing the audio data by 1/12 of the WAV file.

What is WMA?

WMA (Windows Media Audio) is the Microsoft's multimedia compression method. It can compresses the audio data only and provides higher compression ratio (1/22) than MP3 by two times, while providing the similar sound quality.

What is ASF?

ASF (Advanced Streaming Format) is the multimedia file transmission data format developed by Microsoft. Its application scope is getting wider now.

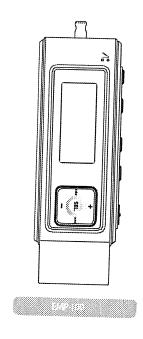
Product Features

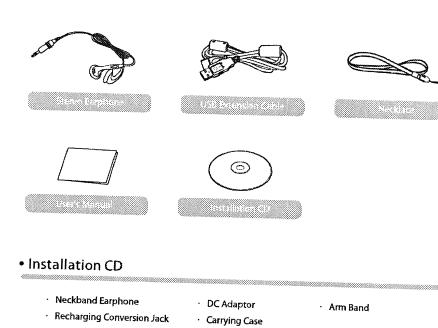
- Large-capacity USB removable storage device
- The player has a built-in USB connector. Therefore, you can use the player safely and conveniently without separate USB cable or manager program.
- You can connect the USB adapter of player to the PC without manager program.
- Navigation (Search) function
 Using the navigation function, you can search for and select the file to playback easily and conveniently.
- 6-type equalizer
 You can select six tones Normal, Pop, Rock, Classic, Live and User EQ.
- 5-band user equalizer
 You can set the tone as you want (5 band +/- 13 steps).

- Convenient file management using folder function
 By default, the RADIO folder and VOICE folder are separated. You can also c reate or delete the folder for your convenience in file management.
- MP3 format voice recording Recorded voice is saved with a MP3 file format, which enables repetitive playback with the clear sound quality and permanent storage at a PC.
- FM radio reception and recording
 The player supports stereo radio reception, real-time recording and playback.
- 12-hour consecutive playback
 The internal battery lasts with up to 12 hour-long consecutive playbacks.
- Multilingual support
 The player supports multilingual such as Korean, Chinese characters, English, Japanese, Chinese and European special characters.

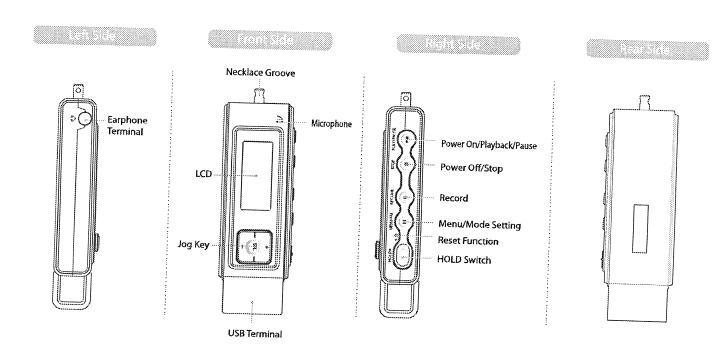
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Composition of EMP-100





Name of EMP-110 Components

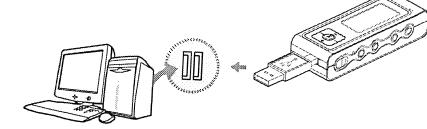


Setting that Vision

· System (Environment Setting)

This function is available only when the provided software is installed in the PC. You can download fonts or upgrade the firmware using software.

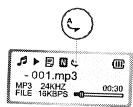




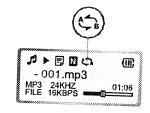
2. Connect the USB port that is integrated with the player to the PC.

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Setting the Function
 Repetitively plays back the certain sector of the file during playback.



1. Playback the file in the audio mode and press the $(\)$ to mark the beginning of the sector $(\)$.



2. Set the end of the sector () by pressing the () button again. Then, the selected sector will be played back indefinitely.



3. Press the (🍨) button to clear sector repetition

Press the or () button to cancel sector repetition.

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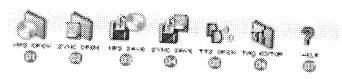
· Media Sync

Media Sync is the synchronization software that plays back music or language study MP3 files, or enables to input the synchronization information to the lyrics and the text. When playing back the file that was created using Media Sync, the contents of the file can be displayed as a text on the LCD of the device that supports the synchronization function. Other editing functions are also provided such as file editing, deleting, pasting and saving.

· Operating environment of Media Sync

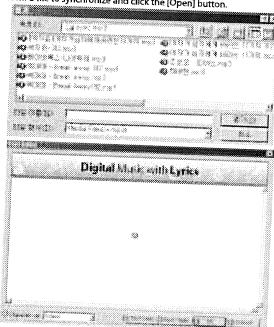
- Computer: IBM compatible computer with Pentium 133 MHz or later CPU and - USB support.
- Memory: 64MB or more.
- Operating System: Windows 98/ME/NT/2000 (professional)/XP Hard disk: 640MB free hard disk space

Basic Functions



Opens the MP3 file to synchronize.

Select the MP3 file to synchronize and click the [Open] button.



- Displays the opened lyric file.
- Selects the language for the lyric.

 Default (Korean, English)/Japanese/Chinese-I (Simplified)/Chinese-II

 (Traditional)
- Retrieves the text-type lyric file.
- Retrieves the "WMI" format lyric file.
- Pastes the retrieved lyric file into the lyric window of Media Sync.
- Pastes the retrieved lyric file into the lyric window of Media Sync.
- Opens the WMI format lyric file to synchronize.
- Saves the lyric file that contains synchronization information and MP3 file.

 MP3 file and WMI file will have the same file name.
 - * .MP3: MP3 file + lyric file containing synchronization information.
 - * .WMI: Lyric file containing synchronization information.
- Save the lyric file containing synchronization information as a "WMI" file.
- Invokes TTS Manager Program.
- Inputs or modifies the ID3 tag information such as song title or singer in a MP3 file.
- You can check the information entered by the Tag Editor on the LCD when the music file is played back.

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- Shows the path of the currently opened MP3 file.
- Inputs the song title.
- Inputs the singer name.
- Inputs album title name.
- Inputs other information.
- Inputs the song announcement year.
- Inputs the track number
- Inputs the music type.

TIS (Textero-Speedin PAD (contonal)

· Menu system



Setting

Language: You can select English, Chinese, Korean and Japanese voice engine.

Letter: Reads the text by the character unit. Word: Reads the text by the word unit. Sentence: Reads the text by the sentence unit.

Speech Control

Volume: You can increase or decrease volume by moving the volume slider to the Low or High direction. (Volume)

Pitch: You can increase or decrease pitch by moving the pitch slider to the Low or High direction. (Tone)

Rate: You can increase or decrease rate by moving the rate slider to the Low or High direction. (Speed)

Dictionary

A dictionary is "definition of reading" on the specific word. For example, to make the computer read "IT" as "Information

Technology," it should be defined in the corresponding language diction

Source Text: Word to define.

Pronunciation: Word or sentence with the defined meaning.

ADD: Adds new word.

MOD: Modifies word definition.

DEL: Deletes the selected wo

· Generation

This function crates a MP3 file from the text file that can be played back by the Media Player.

input the file name and press the [Start] button.



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1000		Specification	
MP3 / WMA / ASF	Channel	MP3 / WMA / ASF	
	Frequency Range	20Hz ~ 20KHz	
	Earphone Output	6mW(L) + 6mW(R):16 Ω , Max Volume	
	Signal to Noise Ratio	90dB (with A-weight filter)	
FM Radio	Frequency Range	87.5 ~ 108Mhz (Worldwide)	
	Earphone Output	76 ~ 90 MHz (Japan)	
	Signal to Noise Ratio	6mW(L) + 6mW(R) : 16 Ω, Max Volume	
		55dB (with A-weight filter)	
	Reception Type	Earphone cord antenna	
Recording	128MB	16Kbps:1,090Min. ~ 192Kbps:90Min.	
	256MB	16Kbps:2,180Min. ~ 192Kbps:180Min.	
	512MB	16Kbps:1,090Min. ~ 192Kbps:360Min.	