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DIGITAL AUDIO PLAYER

DIGITAL AUDIO PLAYER

User Guide

Thanks for your purchase of manufactured goods

- Please read User Guide carefully before you use the device.
- Please keep the User Guide because it has Warranty card.

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Basic Component List

Main Frame, User Manual, Music Friend CD, USB Cable, LINE-IN Cable, Earphone, Necklace, Arm Band, Carrying Case

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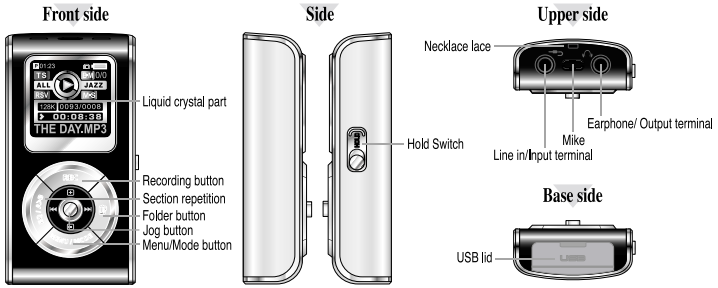
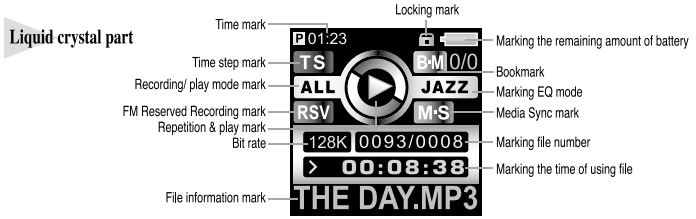
Product Features

- ▶ Various Files Generating Function (MPEG1/ 2 /2.5/3 LAYER3, WMA, ASF, OGG)
  - WMA : 32~192Kbps
  - ASF : 32~192Kbps
  - OGG : Q1~Q10
- ▶ 96✕96 dot, 65Kcolor(Full Color) OLED Use
- ▶ USB 2.0 Supported
- ▶ Generating Multimedia Function
- ▶ NORMAL, ROCK, JAZZ, CLASSIC, POP, 3D, DBB, USER1,USER2 EQ Supported
- ▶ FM Radio and Recording Function
- ▶ FM Radio Preset Recording Function
- ▶ Recording Voice and External Device Function
- ▶ Visual Display Function
- ▶ Message INTRO Function
- ▶ Section Repeating Play Function
- ▶ Repeating (File, Folder, Shuffle, All) Play Function
- ▶ Media Sync Function
- ▶ Firmware Upgrade Function
- ▶ Portable Storage Device
- ▶ OGG Vorbis File Supported
- ▶ Infinite Folder Function
- ▶ TIME STEP Function
- ▶ JPG image display function
- ▶ PLAY LIST Function
- ▶ Logo Editing Function
- ▶ Text Editing Function
- ▶ Sleeping Function
- ▶ Resume Function in seconds
- ▶ Play Speed Control Function
- ▶ Book Mark Function
- ▶ Temporary Pause Function for Recording
- ▶ STOP WATCH Function

Name of each part



* Jog button : Play/ Pause, FF, REW, Volume Up/ Down



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Menu Structure

MENU

PLAY	DISPLAY	RECORD	SET	FORMAT	S-WATCH	INFORM
REPEAT	CONTRAST	MIC	POWER	On	On	VERSION
-NORMAL	OLED_OFF	-BITRATE	SLEEP	OFF	OFF	MEMORY
-REP_ONE	SCROLL	-VOR	BOOKMARK			DATE
-REP_FOL	-SLOW	-AGC	FADE			
-REP_ALL	-NORMAL	LINE	DATE			
-SHU_FOL	-FAST	-BITRAT	RESERVE			
-SHU_ALL	LR LEVEL	-SYNC	-RSV SET			
-INTRO	M-SYNC	-S-TIME	-RSV TIME			
RESUME	LANGUAGE	RADIO	-CHANNEL			
-ON			-REC TIME			
-OFF			LANGUAGE			
TIME STP						
PLAY SPD						
EQALIZE						
3D	USER EQ					
	-USER1					
	-USER1					

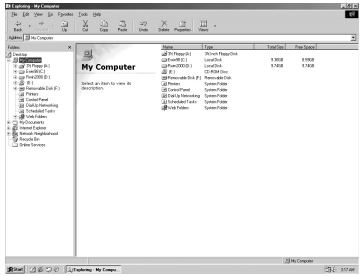
Basic Control Manu

1. Turn on the JOG Switch.
2. Press Menu/Mode button.
3. Select the wanted item by pushing JOG switch to the left/right.
4. Enter to the sub-item by pressing JOG switch. (Pressing Menu/Mode goes to the previous menu, Long pressing escapes the menu mode)
5. Finish the setting by pushing JOG switch to the left/right.

Connecting to the computer

1. Turn on the power of player.

1) Connect the player to the USB terminal of the computer.
2) "Removable Disk" will be appeared in My Computer.
   ※ WINDOWS 2000/XP will generate it without installing additional driver for the user, WINDOWS 98/ME users should install the additional driver for generating "Removable Disk"(Refer to 16p in Installing)



3) Copy the wanted file and store it in the Removable Disk.
4) Folders can be created in Removable Disk same as PC.

2. Disconnecting from computer

1) Disconnecting the player during file transfering will might cause fatal error.
2) **After transferring data, disconnect the player by clicking the icon of "safely remove hardware" on the right bottom of the monitor and stopping the device in case of using Windows2000 /ME/XP.**

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Connecting to Computer(Continued)

3. Copy a file to the Removable Disk

1) When "Removable Disk" is generated in My Computer, select the file for copying.
2) There are three copying methods as following.
   1. Press the right button of mouse and select [Copy].
   2. Press the right button of mouse and [Paste] in the folder of "Removable Disk".
   3. Drag the mouse then drop the dragged file to the folder of "Removable Disk" for copying.
   4. Select the file for copying and press [Ctrl]+[C] of Keyboard.
   5. Press [Ctrl]+[V] of Keyboard on the folder of "Removable Disk" for copying.

4. Deleting File/Folder in Removable Disk

1) After "Removable Disk" is generated in My Computer, select the file/folder for deleting.
2) There are three deleting methods as following.
   1. Press the right button of mouse and select [Delete] for deleting file/folder.
   2. Drag the mouse then drop the dragged file/folder to of "Recycle Bin".
   3. Select the file for deleting then press [Delete] on keyboard deleting file/folder.

5. Creating Folder in Removable Disk

1) "Removable Disk" is generated in My Computer.
2) Creating folder is as following.
   1. Press the right button of mouse and select [New Folder], then create the folder.

6. Change name of file/folder in Removable Disk

1) "Removable Disk" is generated in My Computer.
2) Renaming the file/folder is as following.
   1. Press the right button of mouse and select [Rename], then change the name by keyboard.

Playing music file, deleting file

1. Power On

1) Pressing JOG button will turn on the power.

2. Play/Stop

1) Pressing Jog button will play the music. (Repressing Jog button will stop the player)
2) Power will automatically be off with no use. (Reference to the setting P14. Power Off time)

3. Deleting file

1) Press FOLDER button with power on.
   - Select the file which user wants to delete.
   - Press the MENU/MODE button.
   - Select DELETE.

4. Power Off

1) Pressing JOG button will power off. (Automatically power off after setting time is passed)

5. Selecting song and searching

1) Move JOG button(◄◄/►►) to left/right, then shift to the previous song/next song.
   - Moving the button to ◄◄ before 5 seconds after play will shift to the presious song, moving it after 5 seconds will shift to the begining of the present song.

6. Adjusting the Volume

1) Adjust the volume by moving the JOG button to up and down.

7. Section Repetition

1) During the Play, pressing E/Q button will set the begin of section repetition.
   - Press again will set the end of section repeating and will repeat the play within the section.
2) During the repetition, Pressing E/Q button will clear the section repetition. (Lock setting cannot use the operating button.)

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Listening to FM Radio/Recording FM Radio

▶ Select the FM mode by pressing MENU /MODE long.

1. Tuning the Radio manually

1) Move the JOG button to left/right and search the radio frequency.(No PRESET number is the status of manual)

2. Tuning the Radio automatically

1) Pressing JOG button will display the PRESET number and search the number by moving the button to left/right.

3. PRESET the tuned frequency manually

1) Select the frequency then press the MENU/MODE button shortly.
2) Using the JOG button, select FREQ SAVE then press JOG button.
3) Select the PRESET number by moving JOG button left/right then press the button.

4. PRESET the tuned frequency automatically

1) Press the MENU/MODE button shortly.
2) Using the JOG button, select AUTO then press JOG button.
   - This will store the number 1~20 by searching FM radio automatically.

5. Controlling the MONO/STEREO

1) Press the MENU/MODE button shortly.
2) Select SOUND by moving the JOG button, then press JOG button.
3) Select the MONO or STEREO.

6. Recording FM Radio

1) Press the REC button will record the FM radio during the listening to FM.
   - Recorded file will be created under the RADIO folder.
2) Pressing STOP button will stop recording and repressing the button will record in a new file.

7. FM PRESET Recording

1) Turn on the player and press the menu.
2) Turn on the player and press the menu.
3) Select hour and minute by moving JOG up and down in RSV TIME, then set up the time.
4) Pressing MENU/MODE will shift to the previous menu, then select frequency CHANNEL and REC TIME.

Recording Voice

1) Pressing REC button will start recording.
   - Recording file will be created under the VOICE folder.
2) Pressing STOP button will stop recording and repressing the button will record in a new file.
   1. Pressing REC button will start recording.
   2. Pressing JOG switch in right angle will stop the recording temporarily and pressing the switch in righ angle will record the file continuously.
   3. Pressing REC button will stop recording.

   ※ **Please record by the built-in microphone forward the source of sound.**

Recording from external device

1) Connect Line-in cable between external device and LINE IN terminal of player.
2) Record from the external device after Playing and pressing REC button.
   - Recording file will be created under the LINE IN folder.

Playlist Function

1) Play function selects the wanted music file and makes the Play List, then plays the music
   1. Connect the player to PC.
   2. Run WINAMP PLAYER in PC.
   3. Put wanted music file in WINAMP from the player, then create Play List files.(Extended file name: M3U)
   4. Select M3U file in the folder.

   ※ **Warning : In case of making List, should select the music file in the player.**
   The M3U file and selected file should be located on same folder.
   (The M3U file stored on hard disk driver can be operated normally.
   The OS langue and hard disk langue should be coincidence.)

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Book Mark Function

▶ After pressing MENU/MODE button and entering to the SET mode, select Bookmark by moving JOG button to left and right.

1. Up to 9 BookMarks are possible per one file.
2. Up to 10 files are possible to BookMark.
3. Move to [MENU] - [SET] - [BOOKMARK] and select "ON", then press JOG key.
4. While BookMark On, pressing REC button will BookMark the present play.
5. While BookMark On, pressing FF button will search and play the location of BookMark. While Playing after the place of last BookMark, pressing FF button will shift to the next file and play it.
6. While Playing BookMark On, pressing REW button will search the previous place BookMarked and play. While playing the previous place of BookMark On, pressing REW button will shift to the previous and play it.
7. Deleting BookMark is same as deleting file.

Resume Function in seconds

▶ In case of Power Off on pause mode, this function powers on again and plays the paused file.

1. Move to [MENU] - [PLAY] - [RESUME], and select "ON/OFF".

Time Step Function

▶ This can shift rapidly during the play when user wants to skip or return to the front part.

1. Select [PLAY] - [TIME STP].
2. Set the shifting time by pushing the JOG button to left and right.
3. While playing, pushing JOG button to FF or REW will shift to the front or back rapidly with a set-up time.

JPG file Selection function

1. Press "Folder" Button
2. Move to JPG file and select the file what you want to see.
3. Press Folder button to return to previous menu.

SLEEP Function

▶ (On bedtime)Automatically powers off after a set-up time.

1. Move to [MENU] - [SET] - [SLEEP].
2. This can select Sleeping Time by pushing JOG button to left and right.

Play Speed Control Function

▶ This can control the speed slowly or fast for the part hardly heard of.

1. Move to [MENU] - [PLAY] - [PLAY SPD].
2. This can be controlled by pushing JOG button to left and right based on Normal(100%).

Temporary Pause Function for Recording

▶ This temporarily pauses the recording by PLAY button during the record and records by pressing PLAY button again.

Message INTRO Function

▶ Plays the beginning 10 seconds of each track with searching.

1. Press [MENU] - [PLAY] - [REPEAT] - [INTRO] - JOG key.
   Press [MENU] - [PLAY] - [REPEAT] - [NORMAL] - JOG key for clearing.

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◆ USING MENU ◆

PLAY MENU

▶ REPEAT, RESUME, TIME STP, PLAY SPD and EQUALIZER can be selected by pushing JOG button to left and right.

1. REPEAT

- Can select OFF(NORMAL), REP_ONE(One track repeat), REP_FOL (Folder repeat), REP_ALL(All random repeat), SHU_FOL (Folder random repeat), SHU_REPL (Random repeat) and INTRO (rapid search).

2. RESUME

1) ON : Playback resumes from the location where the player is stopped temporarily.
2) OFF : Playback begins from the first track after the player is stopped temporarily.

3. TIME STP

1) This can shift rapidly during the play when user wants to skip or return to the front part.
2) Can set up the time as user wishes.

4. PLAY SPD

- Can control the speed slowly or fast for the part hardly heard of.

5. EQUALIZER

1) 3D
   - Can set up depth of 3D effect.
2) USER EQ
   - Users can control CUSTOM1, CUSTOM2 as they wish.

DISPLAY MENU

▶ Can select CONTRAST, OLED-OFF, SCROLL, LR LEVEL, M-SYNC and LANGUAGE by pushing JOG button to left and right.

1. CONTRAST

- Can control the brightness of LCD by pushing JOG button to left and right.

2. OLED-OFF

- Can set up the power off time for LCD by pushing JOG button to left and right.

3. SCROLL

- Can adjust the scroll speed of text to SLOW, NORMAL and FAST while playing the file by pushing JOG button to left and right.

4. LR LEVEL

- Displays on L and R level while playing.

5. M-SYNC

- Can visualize the text while playing.(file only has the text)

6. LANGUAGE

- Can select the language.

RECORD MENU

▶ Can select MIC, LINE and RADIO by pushing JOG button to left and right.

1. MIC

1) Beat rate
   - High beat rate can generate high quality sound file.
     - ● After selecting beat rate by pushing JOG button to left/right, setup the beat rate by JOG button.
2) VOR
   - Records only for the existence of sound and stops the recording in case of no sound
     - ● OFF : no setup for VOR record
     - ● NORMAL : setup the middle LEVEL
     - ● HIGH : setup the high LEVEL
     - ※ **Warning : Recording process time and actual recording time may be different by the environment when VOR function is selected.**
3) AGC
   - Record the far-off sound in normal condition by adjusting recording level automatically
     - ● ON : Select for AGC record
     - ● OFF : Select for no AGC record

2. LINE

1) Beat rate
   - High beat rate can generate high quality sound file.
     - ● After selecting beat rate by pushing JOG button to left and right, setup the beat rate by JOG button.
2) SYNC
   - while recording CD, this function senses the non-sound between songs and creates file per song
     - ● SYNC OFF : Clearing Non-sound sensor function between songs
     - ● SYNC ON : Senses the non-sound between entire CD songs and creates file per song
     - ● SYNC 1 : Senses the non-sound between songs and creates one file
3) Non-sound time
   - time decides the non-sound interval between songs while recording CD
     - ● After selecting non-sound time(1~5 seconds) by pushing JOG button to left and right, setup the time by JOG button

3. RADIO

- High beat rate can generate high quality sound file.
  - ● After selecting beat rate by pushing JOG button to left and right, setup the beat rate by JOG button.

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SET

▶ Can select POWER, SLEEP, BOOKMARK, FADE, DATE, RESERVE and DEFAULT by pushing JOG button to left and right.

1. POWER

1) Automatically powers off after the setup time on the pause mode
2) [MENU] - [SET] - [POWER] - select by pushing JOG button to left and right.

2. SLEEP

1) Automatically powers off after the setup time for sleep while listening to the music.
2) [MENU] - [SET] - [SLEEP] - elect by pushing JOG button to left and right.

3. BOOKMARK(10P reference)

1) [MENU] - [SET] - [BOOKMARK] - select ON then press JOG key.

4. FADE

1) Gradual key tone sound function preventing the noise while playing the first file
2) [MENU] - [SET] - [FADE] - Select ON then press JOG key.

5. DATE

1) Set up the time displayed on the player.
2) [MENU] - [SET] - [DATE] - select by moving JOG key to left and right, then set up the time by moving JOG key to up and down.

6. RESERVE

1) PRESET record for FM radio.(Refers to 8P)

7. DEFAULT

1) Set up default for the initial value of the player.
2) [MENU] - [SET] - [DEFAULT] - Select YES/NO then press JOG key.

FORMAT

▶ Format function for stored data

- [MENU] - [FORMAT] - Select YES then press the JOG button.

※ **Warning! Notice that data cannot be restored after formating.**

STOP-WATCH

▶ Can use STOP-WATCH.

1) [MENU] - [S-WATCH] - Select YES then press JOG key.
2) Pressing JOG key will start, repressing JOG key will stop and pushing JOG key to right will initialize the STOP-WATCH.

INFORM

▶ Can display VERSION, MEMORY and DATE of the player.

1) [MENU] - [INFORM] - see the INFORM by pushing JOG key to left and right.

Selecting EQ(equalizer)

▶ Press EQ button slightly in pause mode, and press and hold the EQ button in play mode.

1) Select NORMAL, ROCK, JAZZ, CLASSIC, POP,3D, DBB, USER1 and USER2 EQ by pushing JOG key to left and right.

Upgrade

▶ Can upgrade by upgrade file.

1) Download the upgrade file from the Homepage, then copy it to the root directory of EMP-600.
2) POWER OFF the player and, POWER ON it again.

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Using Music Friend

1. Connecting to PC and using Music Friend

▶ You can transfer files between your PC and the player as well as the functions of playback, image editing, lyrics editing, emailing in Music Friend.

2. Installing MusicFriend

1) Should install "Windows 98/Me Driver" to PC for connecting digital audio player and PC when user uses Windows 98/ME operating system.
2) Windows 2000/XP can recognize the player as "Removable Disk" without installing "Windows 98/Me Driver".
3) Every user should install "MusicFriend" for operating image editing and multimedia image editing for digital audio player.

3. Required system

- Computer : IBM Pentium or faster supporting USB port
- Memory : Over 64MB
- Operating System : Windows 98/ME/2000/XP
- Hard Disk : 50MB free hard disk space
- Playing : Sound card, Speaker

1) Installation screen appears after inserting "MusicFriend" installation CD into the CD-ROM drive.
2) Select the product model on the left screen. Program list will appear on the right screen after selecting the product model. Select the program for installing.

[Important]
Please install "Windows 98/Me Driver" for Windows 98/Me user.
Click "Exit" button for stop the installation.

Viewing HELP

▶ detailed using methods are described in HELP.

▶ After the installation, Shortcut icon will appear on the screen of PC.
1. Double click the Shortcut Icon then MusicFriend will be executed.
2. Select the HELP in main menu. HELP will appear.

1. Deleting MusicFriend

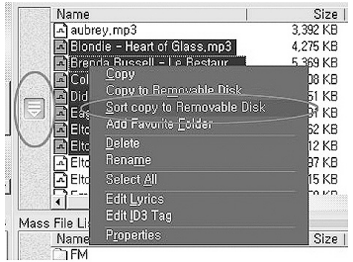
- Method 1)
  Start from the PC → Setting → Control Panel → add/remove programs → MusicFriend T Ver 3.10 → Select add/remove for deleting.
- Method 2)
  Start from the PC → Program → MusicFriend 3.1 → MusicFriend T → Select "Uninstall MusicFriend T 3.1" for removing the program.

2. Operating Files

- In case of downloading PC files into the player, copy by sorting or array the files in the player as well.

[Copying from PC to the Flash memory (MP3 player) by sorting]

1) After select the desired files in PC list, select "Sort copy to Removable Disk" on mouse right menu or click the button of "copy to the Removable Disk" on left menu



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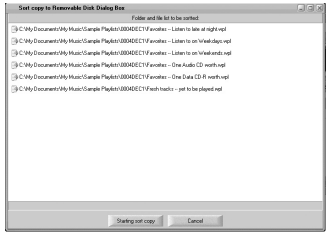
2) Click the "Starting sort copy" after array the files in the [Sort copy to Removable Disk Dialog Box]



3) After sort copy is completed, [Sort copy to Removable Disk Dialog Box] will automatically be closed. After selecting "safely remove hardware" on the right bottom of the PC monitor, remove the cable.

Text editing Function(Possible only in pc)

▶ Can add or edit the text in MP3 file. Can see the content of the edited text while playing the file.

[Inserting the text for the first time]

1) Select [File]-[Edit Lyrics] or click the text edit button in Tool bar in the main menu. Or click the right button of mouse in the MP3 file for inserting text then call the [Edit Lyrics] in the pop-up menu.

2) Text edit screen will appear. Please insert the wanted text.

3) After finishing text edit, click the "save" button . Select the MP3 file for storing text on the dialog box. When the MP3 file is played, inserted text will be appeared on the screen.

[Editing inserted text]

After select the MP3 file for editing, click the right button of mouse, then pop-up menu will appear on the screen. Select "Edit Lyrics" on the pop-up menu. The previous text will be displayed on the text edit screen. After editing the text correctly, click the "save" button . When the MP3 file is played, edited text will be appeared on the screen

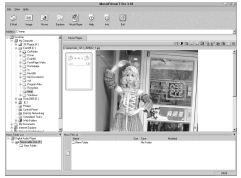
Image Edit Function

1. Image Editing

1) Can make the image file displayed on digital audio player. Select the [File]-[Edit Image] command on the main menu or click the image edit button on the Tool bar. Image view screen will appear.

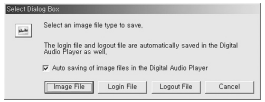
2) Selected image will appear on whole view.

3) Using the image edit Tool Bar , you can change the size or location of the image as you wish.



4) Modify the location by pressing left mouse button and select the applicable range of the image for using in digital audio player. Selected range will be 1/2 reduced and displayed on the screen.

5) After finishing selection of the image range, click the "save" button . Select the types of image file on the dialog box.



- Image file : Image file will be made for viewing in digital audio player. If selecting "Automatic save image file on digital audio player" in the Option, this will automatically save into the PHOTO folder of digital audio player.

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- Login file : will be made for digital audio player and automatically saved in digital audio player.
- Logout file : will be made for digital audio player and automatically saved in digital audio player.

6) If selected the imaged file types, save dialog box will be appear on the screen. Save the folder and image files for storing on the dialog box. Do not have to select Login file and Logout file.

7) When saving is completed, click the close button or search button on main Toll bar. This will change into the PC file list screen.

8) Can confirm the image file thru the preview screen if selecting the saved image file on the file list screen of the digital audio player.

Using the Multimedia

1. Multimedia edit Function

[required system for recording Multimedia]

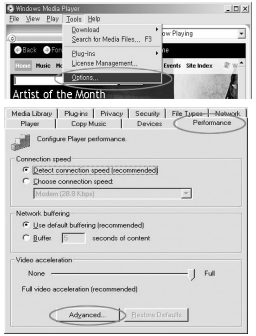
- required system for recording Multimedia
- Minimum required RAM : 256 MB
- Required OS : Windows 2000/XP (Sync may not be fitted in case of Windows 98.)

※ **If the above required system is not compatible with the Multimedia, screen and audio may not be recorded properly.**

※ **Media Player option and Sound card option can be changed once. user doesn't have change it again.**

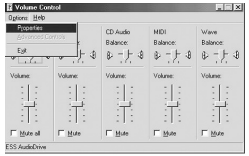
1. Before executing MovieFriend program, change Windows Media Player option first.
2. Confirm the information of existing Windows Media Player version. If Windows Media Player version is not 9.00, download and install Windows Media Player 9.00 by connecting Microsoft Homepage. Windows Media Player version 10.00 uses a lot of system resources so please use Media Player version 9.00.

3. Click [Tool]-[Option] in Windows Media Player menu. Click [Function] tab on the "option" dialog box then click [Advanced] button.



4. Clear all the setting of check box on [Video stream] area in "Video stream set" dialog box the click the [confirm] button.

5. If you want to record the screen and the audio together, audio recording function should be supported on the sound card installed in PC. First, click [Volume] icon on the right bottom of Tool Bar.
   - Select [option]-[Registered information] in "Volume Control" dialog box.



   - [Control Volume]-Select "Record" in registered information dialog box appeared on the screen, then ,select the item of [Next Volume control display] -Mono Mix, Stereo Mix, or Mixer. Otherwise, audio recording may not be supported. Select the [confirm] button.

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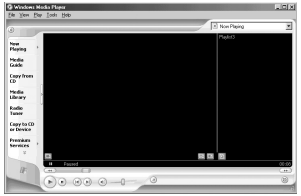
Using the Multimedia(to be Continued)

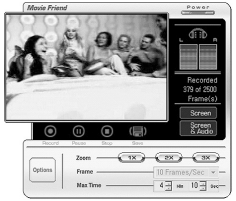
- Select one of Mono Mix, Stereo Mix, or Mixer item on "record control" dialog box on the screen. Control the volume bar of record control by confirming the recorded audio sound volume(right bar of MovieFriend).

- Now, setup for Windows Media Player and audio is finished. Next is the user manual for MovieFriend.

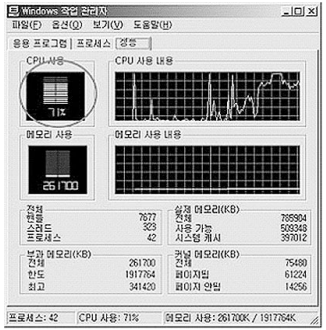
6. Select [file] - [Edit Multimedia] command in MusicFriend main menu or click Multimedia edit button( ) on Tool bar. MovieFriend main screen and CAPTURE screen will appear.
7. Connect to the internet site where has the multimedia files or play the multimedia files for recording in Windows Media Player.
   (In Korea, please go to http://www.ngtv.net for viewing CF multimedia.)
8. After moving the CAPTURE screen to the multimedia screen for recording, play the multimedia. Size of the CAPTURE screen can be modified in [Zoom] of main screen.



9. On the right screen of MovieFriend program, CAPTURE screen will be displayed on then screen. Setup the Max Time for recording.



10. Setup the [Record Type]. "Screen" only records the screen and "Screen & Audio" record screen and audio together. Click the [Record] button on the position where user wants to record. This will record displaying number of Frame on the right bottom of the screen.
    ※ **"Screen & Audio" mode support "5Frame/Sec" and "10 Frame/Sec" mode in present. If interference occurs during the record, set the Frame into "5 Frames/Sec" and record it.**
    ※ **When error occurs during the record, please confirm the above audio setup. If the error still occurs, the PC would not support "Screen & Audio" mode, so please use only "Screen" mode.**
11. Connect the digital audio player to the PC.
12. Click [Save] button and move to "Portable Disk", then save name of the multimedia file on the folder.
13. Clicking [Save] button will change the file to the digital audio player multimedia file in MusicFriend main screen, then save into the digital audio player.
14. When saving is completed, confirm all the operation in digital audio player and delete the hardware safety deletion then disconnect with PC.
15. Select PFL file recorded on "Screen" mode in digital audio player and select MP3 file recorded on "Screen & Audio" mode for viewing the multimedia.
    ※ **For the correct record of multimedia file, Windows 2000/Windows XP users should not use the CPU more than 90% in [Windows job manager] wile recording the multimedia.**



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Using Media Sync

Using mediaSync Manager

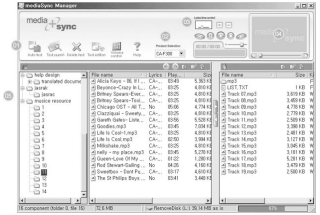
▶ mediaSync Manager can store the text automatically/manually into the music file and support various functions such as file download/upload, mp3 file volume control, etc. as the portable device.

1. mediaSync Manager Configuration

- mediaSync Manager is composed of basic screen, text search screen and sound volume control screen, and text search screen, text edit screen and sound volume control screen will appear separately by pressing the icon

● mediaSync Manager Basic screen

①Function Icon ②Select product
③Control text time ④Player
⑤PC / portable device screen



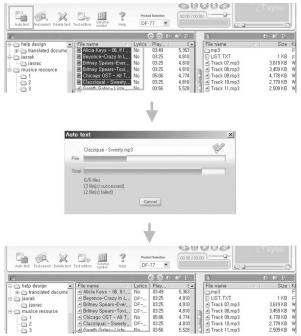
2. Auto text

- After selecting one or several files for storing the text in PC screen, pressing auto text will search and save the text automatically.

● Saved text file will be displayed on the PC screen as a product name from the text.

● Selecting several files at once, use Shift/ Ctrl like the Windows Explorer.

● When saving the text, progress box will appear and show the process and number of successful and failed file from saving.



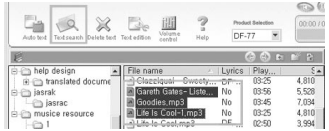
3. Search text

- directly search and save the text of file which couldn't find by auto text.

▶ Order of search text

① Click search text after selecting file

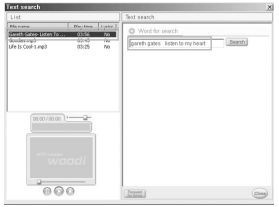
: After select one or several files for search text in PC screen, pressing search text button will show the search text screen.



② Insert search word

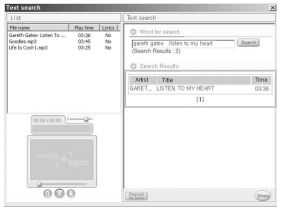
: Selecting the file for searching by mouse on the list of search text screen will input the name of singer and title automatically to the right search screen.

- If the inserted text is not appropriate, user can insert or modify the search word directly.



③ Pressing Search button

: After inserting search word, pressing search button show the result of search text. In case of no or less result, it will can be searched by modifying the search word.



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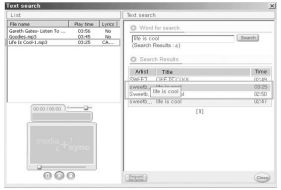
④ Select text

: The selected text is saved in to the file by choosing the lyric with correct playing time. And the lyric part in the file will be changed with name of product name.



⑤ Confirm text

: After saving the text, user can confirm whether the text fits well by playing search screen player.

- If the saved text does not fit with the music, user can search the text again and save the new text after the selection.
- In case there is no correct lyric after the search under several condition, user can move to SyncSong site by clicking the "lyric request" button and leave a request message on the bulletin board.

4. Delete text

1) User can delete the inappropriate text for the music after saving the text.

2) After selecting one or several files for deleting text in the PC Screen, pressing Delete text icon will delete the stored text unrelated with music file.

- File deleted the text is displayed with "NO" on the text part in PC screen.
- Selecting several files uses Shift/ Ctrl key like Windows Explorer.

5. Edit Text

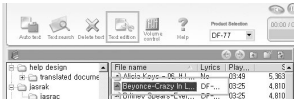
- user can edit or save the text directly to the music file.

▶ Order of Edit text

① After selecting file, click the edit text

: After selecting one file for editing the text on PC screen, pressing Edit text will shows the Edit text screen.

- In case of inserting the text directly to the file without text, copy and paste the text from the Text editor screen on the Web popping with the Edit text.



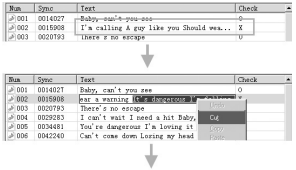
② Editing the Text

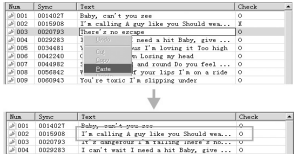
: Edit the lyrics in the text line to be suitable to syllable and the size of player's LCD

- The edited lyric in a lyric line is displayed once on the LCD while in play mode.

Thus, the mark " O" on text line check screen means that the lyric is displayed properly.

If "X" or "V" is showed, the lyric cannot be displayed properly and therefore lyric edition should be performed once again.





③ Playing section of edited text

: Play the music to insert time information into the text. After playing the music by pressing PLAY button, double clicking of musical note(♪) on NUM part of text line will play the music from the above of text line for playing specific test line.

④ Input the text time

: After selecting the text line by mouse for modifying, press the bottom Sync insert of the Text edit screen and insert the time information when the text displays from the playing.

- If user presses the 'Sync insert' on the text line having the time information, new time information will be saved by covering the previous one.

⑤ Confirming the text

: After checking 'preview' on the bottom of Edit text screen and playing, the text will appear on the right side of text screen.

- In case of editing the text for inappropriate text, removing the check indication can make use of 'Sync Insert' button.

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Using Mediasync (to be Continued)

⑥ Saving the text

: After finishing text edit and confirmation, save the music file by pressing 'Audio saved' button.

- Text can be saved together with the music file so that it should be saved in different name in case of saving music files which do not have the text.
- When saving the text by 'Audio saved', two types of files will be created by same name.
- One is the music file with the text(∗.mp3) and another is the edited text file(∗.wmi).
- In Media Sync supported Portable audio player, downloading the music file with the edited text can display the text on LCD during the play.

Additional Functions

▶ Time control

: Seconds(1.5 is 1.5 seconds) in time control screen can control the text time slowly with the inserted time by + and fast with the inserted time by - entirely.

1. Language selection

- In case of Japanese, Chinese text, setting the CHARACTER SET on the right Edit text screen into the following language will not break the text.

2. Inserting the text line

- New text line will be added by clicking the right button of mouse placed on the upper text line of inserting position.

3. Deleting the text line

- Selected text line will be deleted by pressing 'OK' button after choosing the text line for deletion by clicking 'Delete' with the right button of mouse and select the 'Delete all line'.

4. Deleting text time information

- Time information of the text line will be deleted by clicking 'OK' button after choosing the text line for deletion by clicking 'Delete' with the right button of mouse and select the 'Delete all line'.

5. Using edited text file(∗.wmi)

1) After editing the text, if the saved and edited text file(∗.wmi) is shared with friends and other people, user who downloaded the file can save the text without editing the text.

2) After calling the music file by clicking "Open Audio" on the Edit Text screen and calling the text file(∗.wmi) by clicking 'Open Sync' in the Text editor, pressing 'Audio saved' on the Edit text screen will save the text on music file without any special editing.

6. Controlling the text time

1) After saving the text, when the text displays slower or faster than the music, user can adjust the time of text.

2) Confirm the appropriate text and music by playing the saved file. If the text displays slower or faster than the music, insert the adjusted time on text time control screen by pressing +, - buttons. Number inserted on the text time control screen is in seconds. (example: 2.50 is 2.5 seconds)

- If the text is slower than the music
  - After inserting the adjusted time on the text time control screen, press ⊖ button for adjusting the text time faster.
- If the text is faster than the music
  - After inserting the adjusted time on the text time control screen, press ⊕ button for adjusting the text time slower.

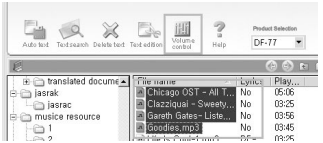
7. Adjusting the sound volume

- the sound of mp3 files can be adjusted in different volumes.

● Order of adjusting sound volume

① After selecting the file, click the sound volume

: After selecting one or several MP3 files for adjusting sound volume in PC screen, pressing Sound volume control button will show the screen. Also, File for adjusting the sound volume can be opened by pressing 'Add file' on sound volume control screen and can be deleted on the list by using 'Delete file/all deleted' button if user does not want the file adjusted on the Sound volume control screen.



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Using Mediasync (to be Continued)

② Confirming the sound volume

: Confirm the present sound volume by pressing 'Sound volume display' button. When pressing the button, current sound volume will be displayed on vol box.

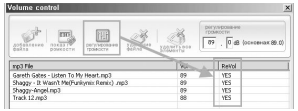
③ Inserting sound volume on Sound volume control screen

: insert the value of adjusted sound volume. Basic sound volume is 89 dB and high sound volume can cause the machinery sound or static noises so it is recommended under 95 dB.

④ Adjusting Sound volume

: Adjust the sound volume by pressing. When completing the adjustment of sound volume, ReVol box shows the result of the sound volume control.

In case of current sound volume having same or similar with the adjusted sound volume, 'No need of sound volume control' will be displayed and adjusted file shows 'YES'.



Customer Service

Specifications

Category	Item		Specifications
AUDIO	File Support		MPEG 1/2/2.5/3 Layer3, WMA, ASF, OGG
	Channel		Stereo
	Frequency Range		20Hz ~ 20KHz
	Earphone Output		20mW(L)+20mW(R):16Ω, Maximum Volume
	S/N Ratio		Over 90dB (With 20KHz LPF)
FM RADIO	Frequency Range		87.5MHz ~ 108MHz(Korea/USA/Europe), 76MHz ~ 108MHz(Japan)
	Earphone Output		20mW(L)+20mW(R):16Ω, Maximum Volume
	S/N Ratio		Over 55dB (With 20KHz LPF)
	Receiver Type		Earphone Cord Antenna
Record	Voice recording time	256MB	Up to 36hours(16Kbps)
		512MB	Up to 72hours(16Kbps)
	Sound Quality	Recording Voice	Sampling Freq : 16KHz/22.05KHz/32KHz/44.1KHz
			Bit Rate : 16,24,32,40/48,56,64,80,96/112/128,160,192Kbps
		External connection recording	Sampling Freq : 16KHz/22.05KHz/32KHz/44.1KHz
			Bit Rate : 16,24,32,40/48,56,64,80,96/112/128,160,192Kbps
		FM Radio	Sampling Freq : 16KHz/22.05KHz/32KHz/44.1KHz
			Bit Rate : 16,24,32,40/48,56,64,80,96/112/128,160,192Kbps
Format	Decode Format		MP3, WMA, ASF, OGG
	Encode Format		MP3
PC Interface	System OS		Windows98/ME/2000/XP/MAC OS(Over 9.0)
Power Supply	Power		Rechargeable Li-polymer Battery
	Playing		Up to 20hours of battery life for playing in earphone
General specification	Size		35×68×16(mm)
	Weights		about 42g(battery excluded)
	Accessories		Earphone, USB connecting cable, Music Friend/CD, Armband User's Manual/Warranty, Neck Strap, External Line-In cable, Carrying Case

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Warranty for Product

Services

1. This is the product that has been produced through strict quality control and inspection process.
2. We will provide free of charge service for you in case that there are some problems with the product within the period of warranty while using it in a normal manner.
3. We will provide charged service for you in case that it corresponds to the charged service even if it is within the period of warranty.
4. The said warranty is valid only in this country.
5. The period of gratuitous warranty is six months in case that the said product is used for marketing and sales (marketing activities and abnormal user's environment).
6. Please fill out the designated form within the 〈warranty for product〉 and keep it safely.
7. Please feel free to contact where you have purchased your product in case that it does not function well.

Name of product	DIGITAL AUDIO PLAYER		
Name of Model			
Date of Purchase		Period of warranty	a year
Place where the product is purchased			Purchasing amount
Telephone			Won
Customer	Address		
	Name		
	Telephone		

Charged Services

· Malfunction due to the mishandling while using the product · Malfunction due to the internal reconstruction by the user at will
· Malfunction due to the natural calamity such as fire, damage from sea wind, flood damage and earthquake

Notice

1. Do not drop or impact the player against the objects. This may result the damage of the player.

2. Keep the device out of the place as following.
   - Place in very high temperature (Over 60℃)
   - Direct sunlight or near to heater
   - Inside car with closing the window (Especially in Summer)
   - Humid area such as bathroom
   - Dusty area

3. Do not use excessive force to LCD.
   - This may result the damage and cause the problem on display part of LCD.

4. Keep the player away from the strong magnets such as cash card, special card and other card using magnets. This will damage the card.

5. Damage from the use of this device and claim for damages from the third party will not be responsible to the company.

6. Damages from breaking down, repairing and loss of recording message from the other causes will not be responsible to the company.

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

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FCC RF INTERFERENCE STATEMENT

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 communications. 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 can 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 technical for help.
- Only shielded interface cable should be used.

Finally, any changes or modifications to the equipment by the user not expressly approved by the grantee or manufacturer could void the users authority to operate such equipment.

Memo

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Memo