DionX
DIGITAL EXCITEMENT

V0310E

DX-100

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DionX
DIGITAL EXCITEMENT

Portable Digital MP3 Player

User's Manual

USB UNIVERSAL SERIAL BUS

Plays Windows Media™ MP3 DIGITAL FIRMWARE UPGRADE

Multi-Codec Firmware Upgrade Voice Record Quick REC FM Tuner & REC ●

for Windows® 98SE/ME/2000 & XP
for Mac OS 9.X/10.X

DX-100

※ The actual product may be different in design or color from what is shown in this manual.

※ Functions of the product are subject to change without notice for upgrade purpose.

※ Please read the manual before using the product.

※ This manual contains product warranty.

※ Windows Media and Windows Media Logo are registered trademarks of Microsoft Corp.

Safety (FCC INFORMATION FOR USER)

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 receives, including interference that may cause undesired operation.

CAUTION :

Any changes or modifications in construction of this device which are not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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, 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 causes' 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 reciever.
- 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

For Canadian model

This class B digital apparatus complies with Canadian ICES-003.

For models having a power cord with a polarized plug:

CAUTION : TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT. FULLY INSERT.

Modèle pour les Canadien

Cet appareil numèrique de la classe B est conforme à la norme NMB-003 du Canada.

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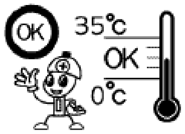
1-1 Safety Warning

※ This section contains important information on your health and safety.
※ Please read it carefully before using the product.

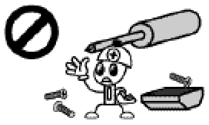


Do not store your player where the temperature is above 35°C or below 0°C.

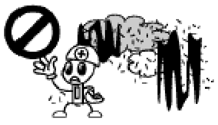
Avoid storing your player in moist area.

Do not drop your player, allow external shock or leave it near a magnet.

Avoid contact with such chemicals as benzene or thinner, which can peel off the paint.

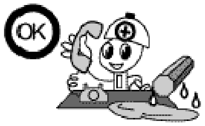


Do not attempt to disassemble, repair or modify your player.



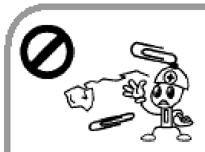
Avoid where there is excessive dust or soot.

Avoid direct sunlight or heat.

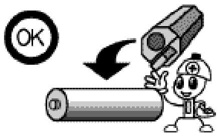


If your player gets wet, remove the battery and contact the service center.

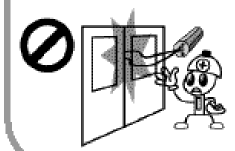
1-1 Safety Warning



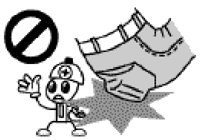
Do not have foreign substance go into your player.



Remove the battery when the product is not in use for a long period of time.

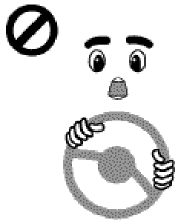


Use the necklace with caution, which might get caught in doors to cause physical injury.

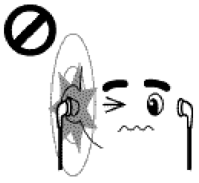


Be cautious that falling down with the product in the pockets of your clothes could result in bruise or fracture.

※ Warning on Use of Earphones



▶ Road Safety
Do not use earphones while driving, cycling, or operating any types of motorized vehicles. It creates traffic hazard and is illegal in some areas. It is also potentially dangerous to use earphones while walking, especially at pedestrian crossings.



▶ Preventing Hearing Damage
Do not use earphones at high volume for a prolonged period of time. It can seriously impair your hearing ability. If you experience a ringing in your ear, reduce the volume or stop using the product.

1-2 About DX-100

■ **Luxurious Design**
The exquisite octagonal design of DX-100 is simple, but luxurious.

■ **Multi-Codec Player**
Plays MP3 and WMA files.

■ **FM Tuner**
Auto memory, preset up to 20 stations, and selectable FM frequency by country.

■ **FM Recording**
Records FM broadcasting to MP3.

■ **High-Sensitive Voice Recording**
The high-sensitive microphone on DX-100 helps you catch any urgent recordings instantly (quick recording).

■ **Direct Encoding**
Record and convert CD or cassette music directly into MP3 from ENC jack without PC.

■ **Built-in USB Connector**
No need for USB cable anymore. DX-100 has a built-in USB connector.

1-2 About DX-100

■ **Removable Storage Device by Plug & Play**
Use Windows Explorer to copy and delete files.

■ **My Sound System**
Create your own sound effect using 3D Sound, bass and treble for realistic sound and perfect tune.

■ **Convenient Navigation**
Easy to save and search files.

■ **Supports Playlist**
DX-100 supports up to 5 playlists or m3u files.

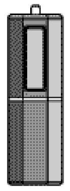
■ **Firmware Upgradeable**
Upgrade features and functions of DX-100 by simply upgrading the firmware of DX-100

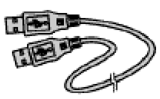
■ **Maximum 12 hours of Playing Time**
DX-100 presents maximum 12 hours of music enjoyment on one AAA battery.

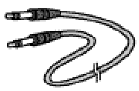
■ **Multi-Language Support**
Supports Korean, Chinese, English, Japanese, European languages and others

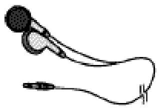
1-3 Package Contents

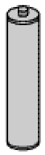
Basic Contents


DX-100

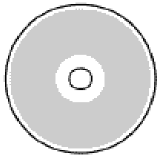

USB Cable

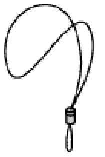

LINE-IN Cable


High-quality Earphone


AAA Battery

User Manual

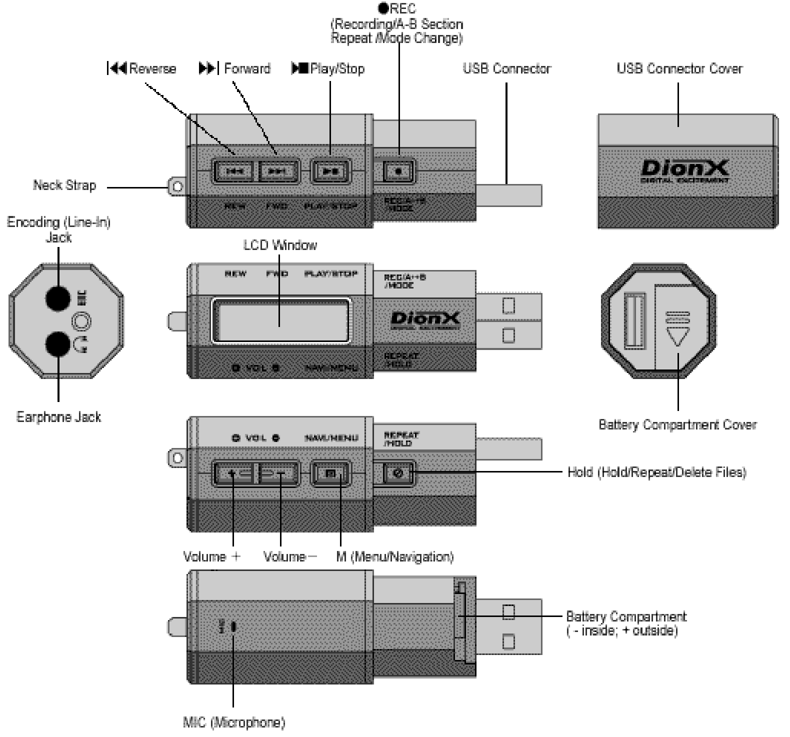

Installation CD


Necklace

Note ※ The design of the basic contents and the optional items may be changed without prior notice for product upgrade.

1-4 Tour of DX-100

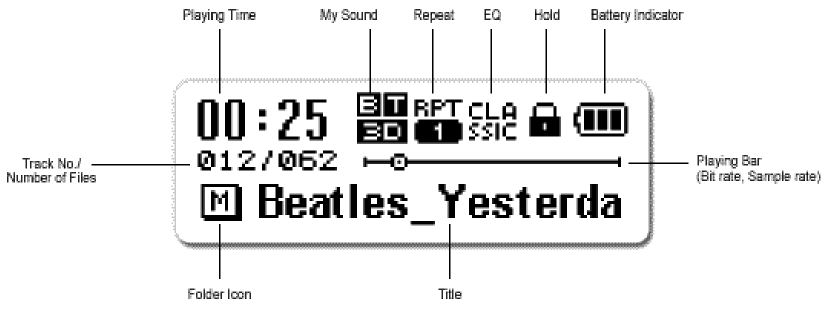
1. Main Unit


●REC
(Recording/A-B Section Repeat /Mode Change)
|◀◀Reverse
▶▶| Forward
▶■Play/Stop
USB Connector
USB Connector Cover
Neck Strap
Encoding (Line-In) Jack
LCD Window
Earphone Jack
REW
FWD
PLAY/STOP
REC/A↔B /MODE
VOL
NAVI/MENU
REPEAT /HOLD
DionX
Battery Compartment Cover
Hold (Hold/Repeat/Delete Files)
Volume +
Volume −
M (Menu/Navigation)
Battery Compartment
(- inside; + outside)
MIC (Microphone)

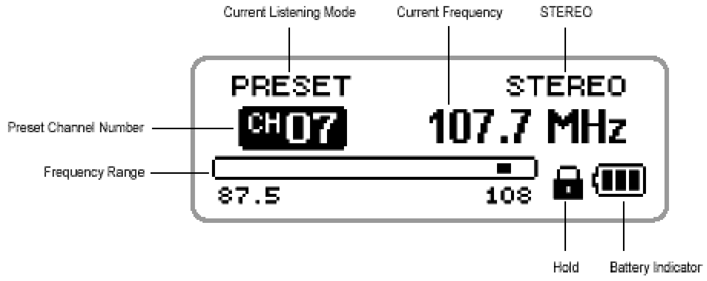
1-4 Tour of DX-100

2. LCD Overview

Music Playback Mode

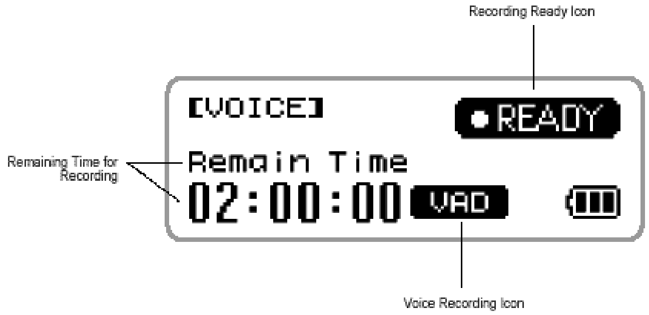

Playing Time
My Sound
Repeat
EQ
Hold
Battery Indicator
Track No./ Number of Files
Playing Bar (Bit rate, Sample rate)
Folder Icon
Title
00:25
BT
3D
RPT
1
CLA SSIC
012/062
M
Beatles_Yesterda

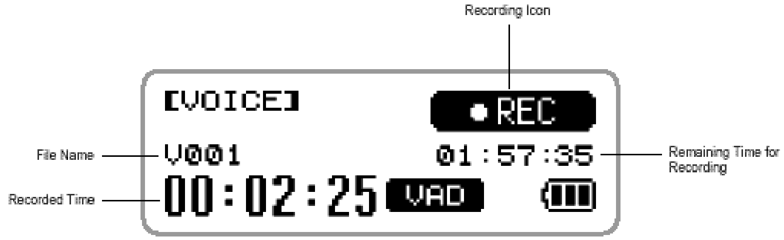
FM Mode


Current Listening Mode
Current Frequency
STEREO
Preset Channel Number
Frequency Range
Hold
Battery Indicator
PRESET
STEREO
CH07
107.7 MHz
87.5
108

1-4 Tour of DX-100

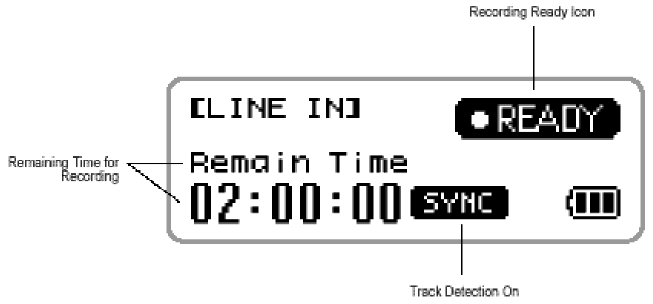
Voice Recording

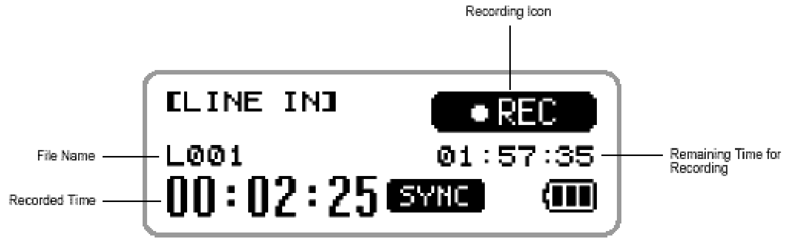

Recording Ready Icon
Remaining Time for Recording
Voice Recording Icon
[VOICE]
● READY
Remain Time
02:00:00
VAD


Recording Icon
File Name
Recorded Time
Remaining Time for Recording
[VOICE]
● REC
V001
01:57:35
00:02:25
VAD

1-4 Tour of DX-100

Line-in Recording


Recording Ready Icon
[LINE IN]
● READY
Remaining Time for Recording
Remain Time
02:00:00
SYNC
Track Detection On


Recording Icon
[LINE IN]
● REC
File Name
L001
01:57:35
Remaining Time for Recording
Recorded Time
00:02:25
SYNC

1-5 Summary of Basic Control

Button	Action	Music Mode			Recording Mode		FM Mode	
		When Playing	At Stop	Menu/ Navigation	Stop	Recording	FM	Recording
▶■	Short	Stop	Play	Play	Play	Pause	STEREO ON/OFF	Pause
	Long	Power OFF		-	Power OFF		Power OFF	
▶▶|	Short	Play next track	Move to next track	-	Move to next track	-	Change frequency /station	-
	Long	Fast Forward	Fast forward search through tracks	-	Fast search through files	-	AUTO SCAN +	-
|◀◀	Short	Within the first 5 sec.: move to the previous track After the first 5 sec.: Move to the beginning of the current track	Move to the previous track	Move to upper menu/ folder	Move to the previous file	-	Change frequency /station	-
	Long	Fast Forward	Fast reverse search through tracks	-	Fast backward search through files	-	AUTO SCAN –	-
+		Volume up		Move left	Volume up	-	Volume up	-
−		Volume down		Move right	Volume down	-	Volume down	-
M (Menu)	Short	Change to Navigation mode		Select/Play	Change to Navigation mode	-	-	-
	Long	Change Menu		Exit Menu	Change Menu	-	Change Menu	-
⊘ Hold	Short	Change Repeat option		Delete	Change Repeat option	-	Change preset / frequency	-
	Long	Hold ON/OFF		-	Hold ON/OFF		Hold ON/OFF	
● REC	Short	A-B Section repeat	Start recording	-	Start recording	Stop recording	Start recording	Stop recording
	Long	Mode change (Music, Recording, FM)		-	Mode change	-	Mode change	-

2-1 Installing DionX Manager(for Font & Firmware Upgrade)

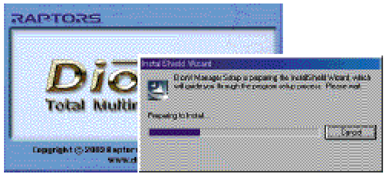
System Requirements

※ Your PC should satisfy the following requirements to install the program :

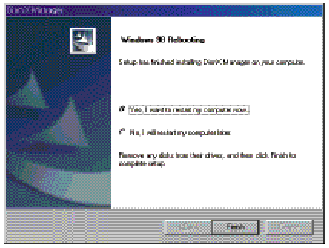
- Pentium 133MHz or faster
- Windows 98/ME/2000/XP
- 20GB of free hard disk space
- CD-Rom Drive
- USB Port (1.1)
- Windows 2000 users must log in as an administrator to install the driver.

1. Insert the installation CD into the CD-Rom drive.

The CD will start running automatically. Please follow the instruction that appears and click Next to proceed.



<Installation>

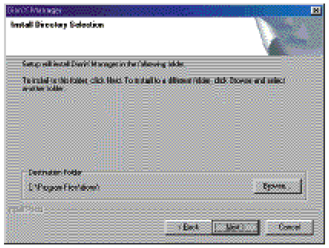


Check Yes and click Finish to reboot your PC.

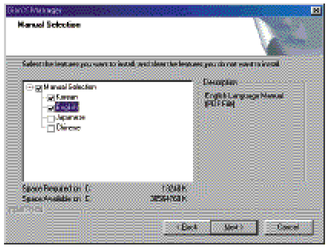
Caution ※ Windows ME/2000/XP users can upload or download files without the DionX manager, but to install font and firmware, the manager must be installed.

2-1 Installing DionX Manager(for Font & Firmware Upgrade)

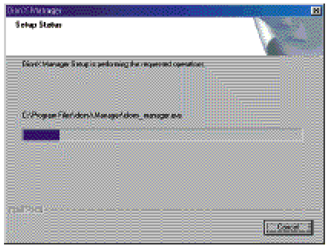
2. Click NEXT in the windows that appear afterward to finish the installation.



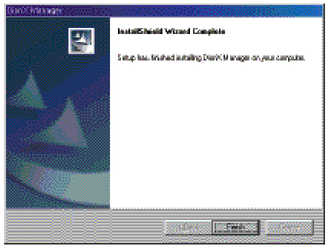
Select the folder to install the DionX Manager, and click Next.



Select the language for the manual, and click Next.



Setup is on progress.

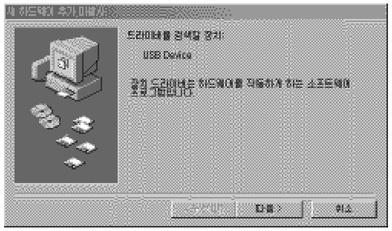


After installation is complete, click Finish to finish the installation.

※ Windows 98 users must install the USB driver to use DX-100 as a removable storage.
(Refer to page 15 for installing the driver.)

2-2 Installing USB Driver for Windows 98

1. Insert the CD into the CD-Rom drive.
2. Connect DX-100 to the USB port on your PC, and the following windows will appear.

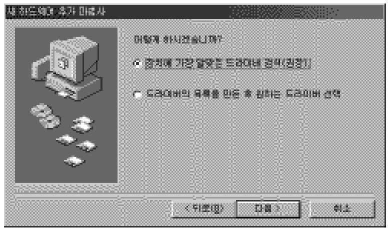


1. Insert the CD into the CD-Rom drive.

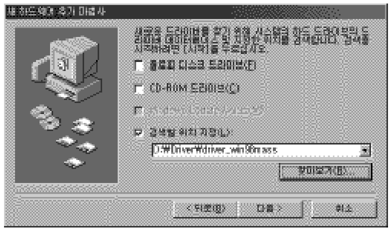
Note

Windows 98/ME users who install the DionX Manager do not have to install the USB driver separately.

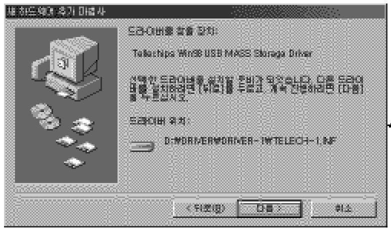
2-2 Installing USB Driver for Windows 98



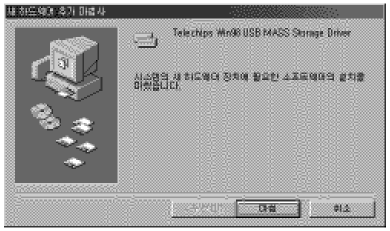
2. Connect DX-100 to the USB port on your PC, and the following windows will appear. Click Yes when the device installation wizard window appears.



3. Check "Search for the driver (recommended)", and click Next.



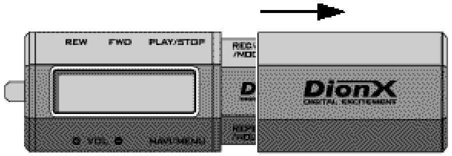
4. Check "Select the folder to be searched" and go to D:\Driver\Driver_win98mass.



5. When the driver is found, click Next.
6. After installation is complete, click Finish.

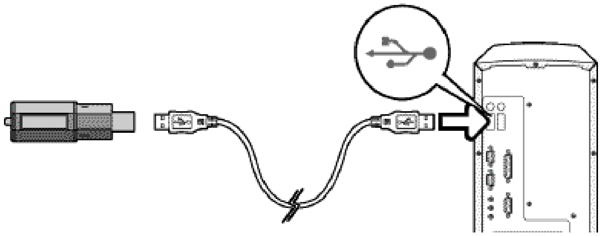
2-3 Connecting to PC

1. Detach the USB cover.


REW
FWD
PLAY/STOP
DionX
DIGITAL EXCITEMENT
VOL
NAVI/MENU

2. Connect the player to your PC(you do not have to turn the power on.)

- If prompted, reboot your PC.



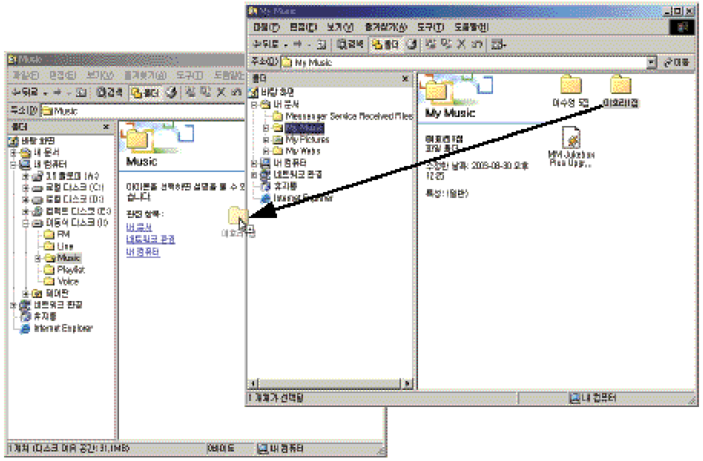
3. After showing a message, “looking for a new device,” the connection will be established. The installation windows may not appear.

Caution ※ Connecting USB during music playback or other operation may cause a malfunction. Stop any playback, or operating your player before the USB connection is made.

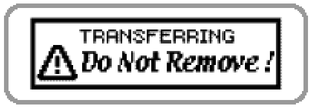
2-4 Managing Files as a Removable Storage Device

1. File Download/Upload

- After connecting the player to PC, double-click “My Computer.”
- Select “Removable Disk”.
- Select the files you want to transfer, and drag and drop them into Music folder.


My Music
Music
FM
Line
Music
Playlist
Voice

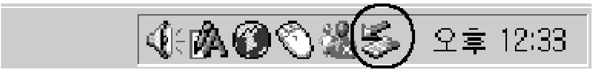
Caution ※ Music files must be stored in Music folder.
※ Never disconnect the USB cable when the following message appears on LCD.


TRANSFERRING
Do Not Remove !

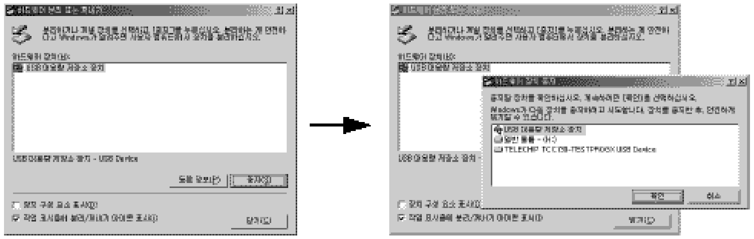
2-4 Managing Files as a Removable Storage Device

2. Removing USB Connection from PC

- Double-click the Eject Hardware icon on the Windows task bar, and stop the device before removing the USB device from your PC.



- Select Stop USB Mass Storage Device from the popup menu, and follow the instruction to safely remove the player from your PC.

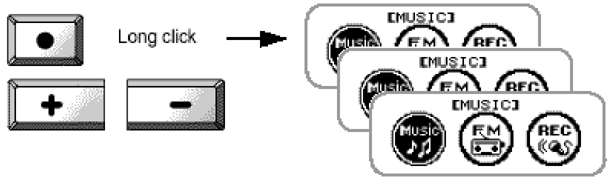


Caution ※ Follow the instruction above to prevent damage to data and your PC.

3-1 Basic Operation

1. Changing Mode

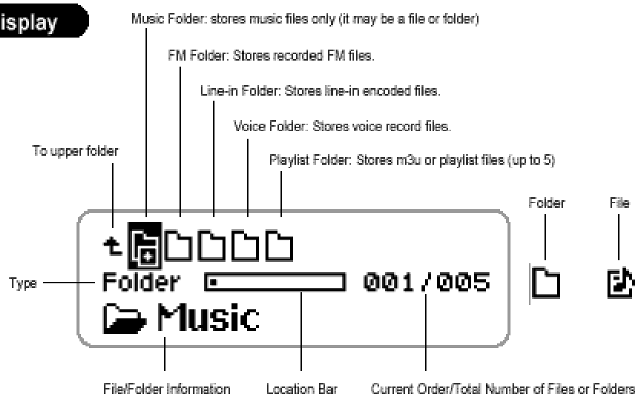
- Pressing REC long will change mode in the order of MUSIC-FM-RECORDING. Use "-" and "+" to move left and right, and "M" to select.


REC button
Long click
Move Left/ Right: + /-
+
−
[MUSIC]
Music
FM
REC

2. Navigation

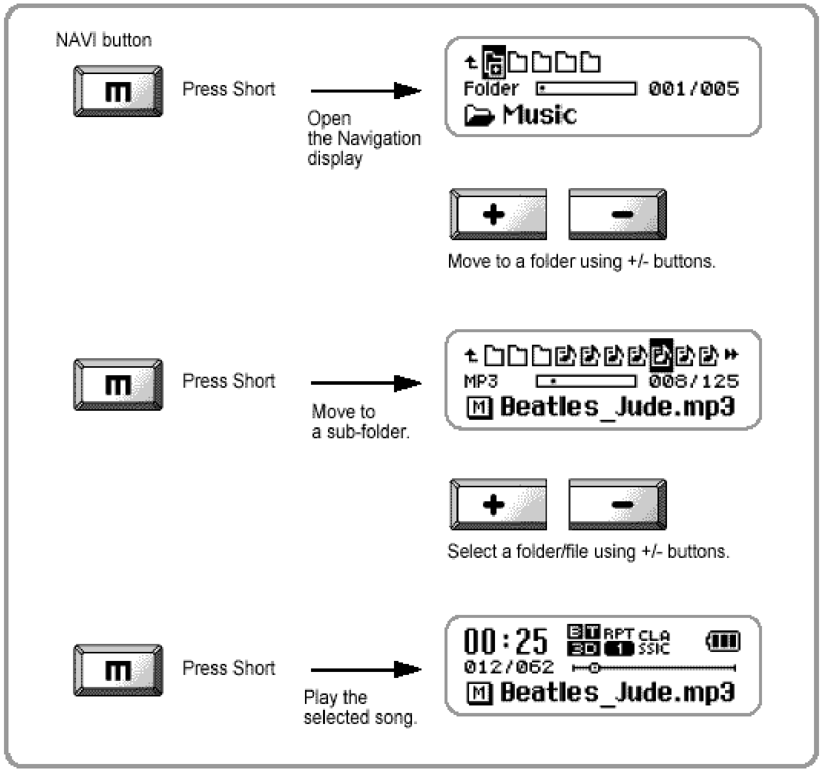
- Pressing M button short will start Navigation feature.
  - Use + and - buttons to move left and right, and press M short to select.
  - Use ◀◀ button to move to upper folder.
- Press the M button long to finish Navigation mode.

Navigation Display


Music Folder: stores music files only (it may be a file or folder)
FM Folder: Stores recorded FM files.
Line-in Folder: Stores line-in encoded files.
Voice Folder: Stores voice record files.
Playlist Folder: Stores m3u or playlist files (up to 5)
To upper folder
Folder
File
Type
Folder
001/005
Music
File/Folder Information
Location Bar
Current Order/Total Number of Files or Folders

3-1 Basic Operation

Listening to Music using Navigation


NAVI button
Folder 001/005
Music
MP3 008/125
Beatles_Jude.mp3
00:25
RPT CLASSIC
012/062
Beatles_Jude.mp3

Press Short → Open the Navigation display

Move to a folder using +/- buttons.

Press Short → Move to a sub-folder.

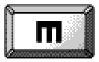
Select a folder/file using +/- buttons.

Press Short → Play the selected song.

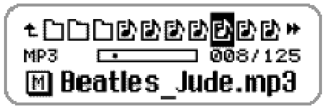
3-1 Basic Operation

3. Deleting Files

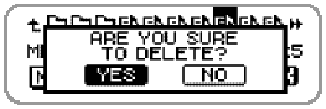
- ● Press M button short to open Navigation.



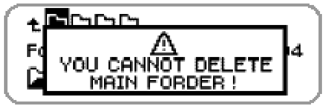
- ● Move to the file you want to delete using + and - buttons.


MP3 008/125
Beatles_Jude.mp3

- ● Press HOLD button, and the message, "Are you sure to delete", will appear. Choose Yes using + or ? button, and press M to confirm your selection.


ARE YOU SURE TO DELETE?
YES
NO

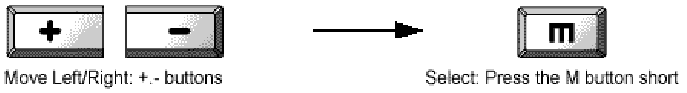
Caution ※ You cannot delete a folder.

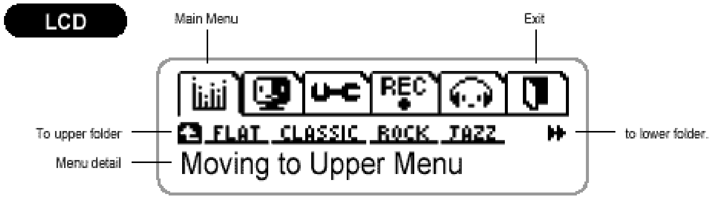

YOU CANNOT DELETE MAIN FORDER !

3-1 Basic Operation

4. Menu

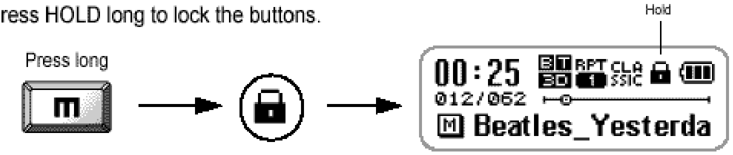
- Press M button long to open Menu.
  - Use + and - buttons to move left and right, and press M short to select.
  - Use ◀◀ button to move to upper folder.
  - Press M button long again to close Menu.


Move Left/Right: +.- buttons
Select: Press the M button short

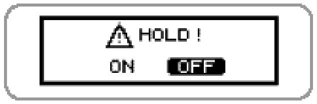

LCD
Main Menu
Exit
REC
To upper folder
FLAT CLASSIC ROCK JAZZ
to lower folder.
Menu detail
Moving to Upper Menu

5. Hold

- Press HOLD long to lock the buttons.

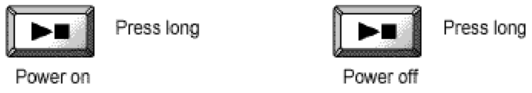

Hold
Press long
00:25
012/062
RPT
CLASSIC
Beatles_Yesterda

Note ※ Auto Hold will lock the buttons automatically after power off. You can select this option in Menu.

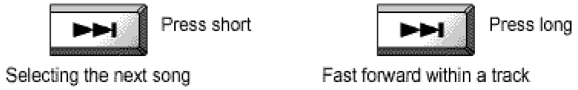


3-2 Listenting to Music

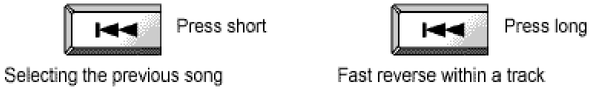
1. Power On/Off


Press long
Power on
Press long
Power off

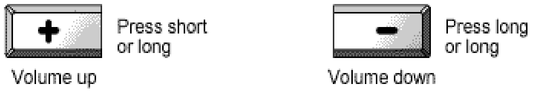
2. Selecting the Next Song and Fast Forward within a Track


Press short
Selecting the next song
Press long
Fast forward within a track

3. Selecting the Previous Song and Fast Reverse within a Track


Press short
Selecting the previous song
Press long
Fast reverse within a track

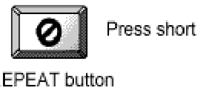
4. Volume (adjustable from 0 to 30)


Press short or long
Volume up
Press long or long
Volume down

3-2 Listenting to Music

5. Changing Repeat Option

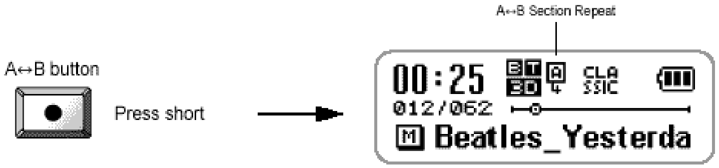
- Press REPEAT short each time to change the repeat option in the order of Normal (no display) → RPT 1 → RPT D → RPT A → RND D → RND A → INT.


Press short
REPEAT button

- Normal (no display) : Plays entire collection and stops.
- RPT 1 : Repeats current track continuously.
- RPT D : Repeats all tracks in a folder continuously.
- RPT A : Repeat all tracks continuously.
- RND D : Plays the tracks in a folder in random order and stops.
- RND A : Plays all tracks in random order and stops.
- Intro : Plays the first 10 seconds of each track.

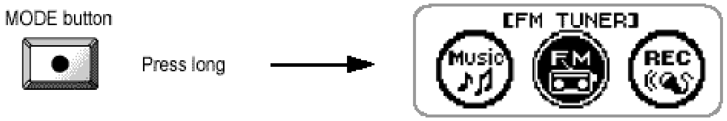
6. A↔B Section Repeat

- During playback, press A↔B short to mark a starting point (A) and once again to mark an ending point (B) of a section you want to repeatedly listen to. Pressing it third time will turn off the section repeat option.


A↔B button
Press short
A↔B Section Repeat
00:25
012/062
CLA SSIC
Beatles_Yesterda

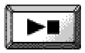
3-3 Listenting to FM

※ **Press MODE long to change to FM mode.** (Press M button to select.)


MODE button
Press long
[FM TUNER]
Music
FM
REC

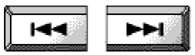
1. Stereo/Mono

- While listening, press PLAY/STOP short to toggle between stereo and mono.


Press short

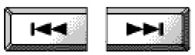
2. Tuning

- Use |◀◀ and ▶▶| to change FM frequency.


Fast reverse or Fast forward
Press short

3. Using Auto Scan

- Press |◀◀ or ▶▶| long to start auto scan backward or forward.

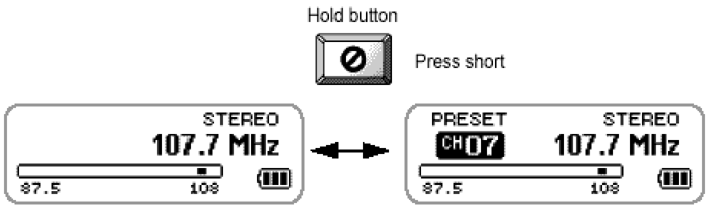

Fast reverse or Fast forward
Press long

Note ※ You can configure the unit of frequency change in Menu (refer to page 39 "5. Frequency Unit")

3-3 Listenting to FM

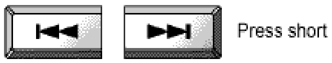
4. Preset/Manual Tuning

- Press HOLD short either to listen to the presets or to tune frequency manually.


Hold button
Press short
STEREO
107.7 MHz
87.5
108
PRESET
CH07
STEREO
107.7 MHz
87.5
108

5. Listening to Preset Stations

- Press |◀◀ or ▶▶| buttons short to change the preset station.

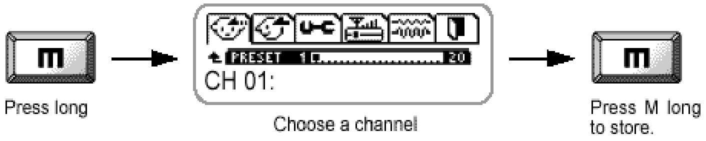

Press short

Note ※ Auto scan is not supported in preset mode.

3-3 Listenting to FM

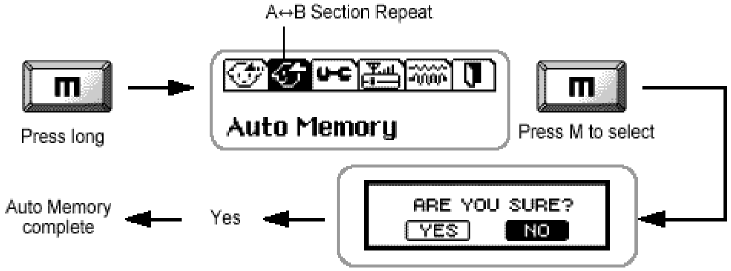
6. Presetting Radio Stations (up to 20 stations)

- Tune to desired FM frequency.
- Press M button long to open Menu, and select Memory.
  Choose a channel number to store the station, and press M long to store.


Press long
PRESET 1
20
CH 01:
Choose a channel
Press M long to store.

7. Automatic Presetting (Auto Memory)

- Tune and preset automatically.
- Press M long to open Menu, and select Auto Memory to start automatic presetting.

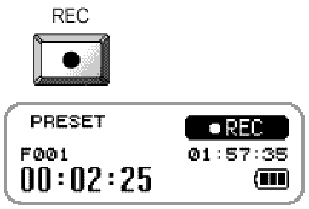

A↔B Section Repeat
Press long
Auto Memory
Press M to select
ARE YOU SURE?
YES
NO
Yes
Auto Memory complete

Caution ※ Executing Auto Memory will replace the previously stored stations with the new selections.

3-4 FM Recording

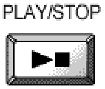
1. Recording FM

- While listening to FM, press REC to start recording.



2. Pausing Recording

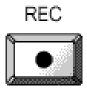
- While recording, press PLAY/STOP to pause, and again to resume.



Press short

3. Finishing Recording

- While recording, press REC to stop.



Press short

4. Playing Recorded Files

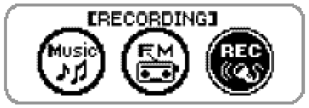
- To play the recorded files, change the mode to Music mode, select a file you want to play in the FM folder and play. (Use NAVI function to search a desired file. Refer to page 20 "2. Navigation")

Note

※ FM is recorded in the FM folder as MP3. e.g.) F000.mp3
※ The compressed rate of a recorded file can be changed in Menu.
※ You cannot adjust volume while recording.

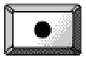
3-5 Voice Recording/Line-in Encoding

※ Either change to Recording mode by pressing REC button long, or press REC in Music mode.

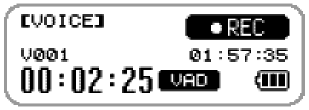


1. Starting Recording

- Press REC short to start recording.



Press short



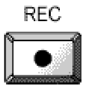
2. Pause

- Press PLAY/STOP to pause, and again to resume.

Press short

3. Finishing Recording

- While recording, press REC to stop.



Press short

4. Playing Recorded Files

- Press PLAY/STOP to play a recorded file, or change to Music mode and select a recorded file you want to play in the Recording folder. (Use NAVI function to search a desired file. Refer to page 20 "2. Navigation")

Note

※ Connect other music device to ENC terminal to start in-line encoding.
※ Voice record will be stored in Voice folder as MP3. e.g.) V000.mp3
※ Line-in encoding will be stored in Line folder as MP3. e.g.) Line000.mp3

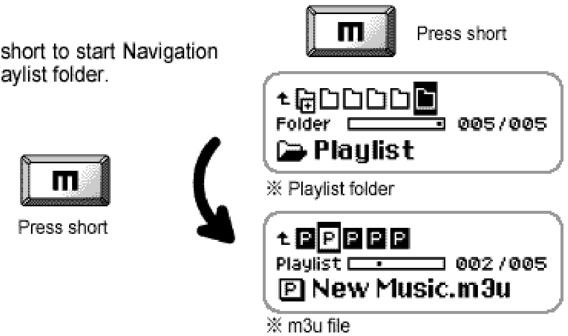
4-1 Playlist (m3u support)

※ DX-100 supports playback of m3u (up to five m3u files are supported.)

1. Move the m3u files created in PC to the Playlist folder.

2. Selecting m3u.

- Press Navi button short to start Navigation and move to the Playlist folder.


Press short
Press short
Folder 005/005
Playlist
Playlist 002/005
P New Music.m3u

※ Playlist folder

※ m3u file

- Select a playlist, shown as P, in the Playlist folder.

Press short

3. Canceling Playlist Playback

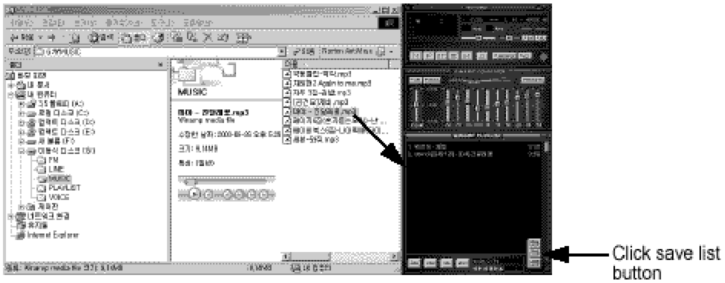
- Press NAVI button short to start Navigation, and select other music file. This will automatically cancel playlist playback.

Note ※ If a music file is not stored in the player, but its name is listed in a playlist, it will be skipped when the playlist is selected for playback.
※ A playlist must be stored in the Playlist folder to play.

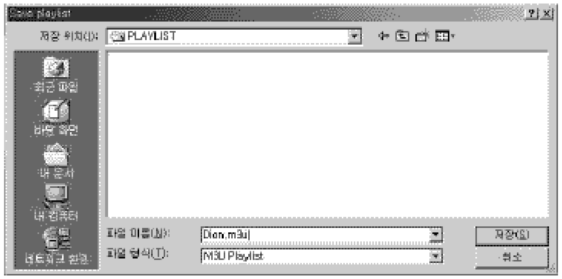
4-2 Creating a Playlist

1. Connect the player to your PC, and run the Windows Explorer and Winamp.

2. Drag music files from the player (removable disk), and drop it in the playlist window of Winamp. Click Save List button located at the bottom right corner of Winamp.


Click save list button

3. When the Save Playlist window appears, save the list as m3u.


Save playlist
최근 파일
바탕 화면
내 문서
내 컴퓨터
네트워크 환경
저장(S)
취소

저장 위치(I): PLAYLIST

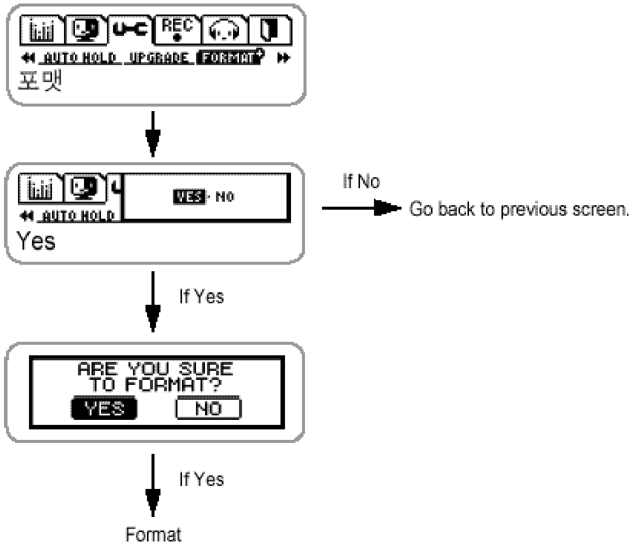
파일 이름(N): Dion.m3u

파일 형식(T): M3U Playlist

4-3 Formatting

1. Formatting in the Player

- Turn on DX-100.
- Press M button to open Menu, and select System Configuration and then Format.


AUTO HOLD
UPGRADE
FORMAT
포맷
YES · NO
AUTO HOLD
Yes
If No
Go back to previous screen.
If Yes
ARE YOU SURE TO FORMAT?
YES
NO
If Yes
Format

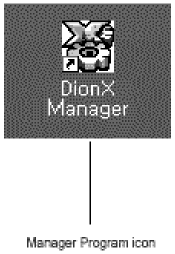
Caution

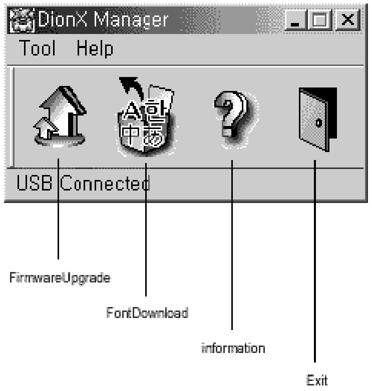
※ Format must be done in the player.
※ Formatting in your PC may cause a malfunction.
※ Formatting will reset the player to default state with default folders (Music/FM/Line/Voice/Playlist folders)

4-4 DionX Manager Program

You can upgrade firmware and download fonts using the DionX manager program.

Manager Program


DionX Manager
Manager Program icon


DionX Manager
Tool
Help
USB Connected
FirmwareUpgrade
FontDownload
information
Exit

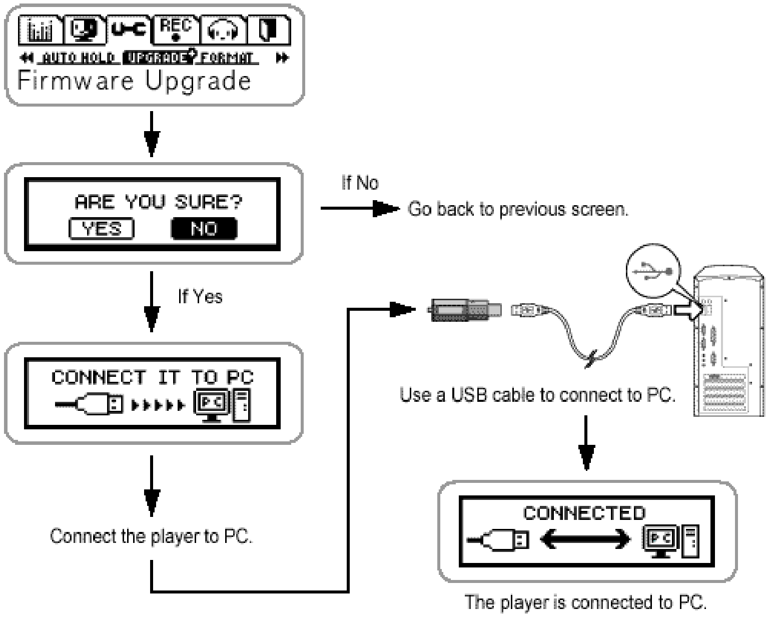
4-4 DionX Manager Program

Firmware Upgrade

Firmware upgrade keeps your player up to date.

1. Turn on DX-100

- Press M button to open Menu, and select System Configuration → Firmware Upgrade.


AUTO HOLD
UPGRADE
FORMAT
Firmware Upgrade
ARE YOU SURE?
YES
NO
If No
Go back to previous screen.
If Yes
CONNECT IT TO PC
PC
Connect the player to PC.
Use a USB cable to connect to PC.
CONNECTED
PC
The player is connected to PC.

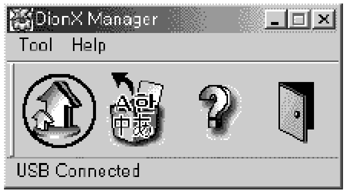
4-4 DionX Manager Program

2. Download the upgrade file from internet.

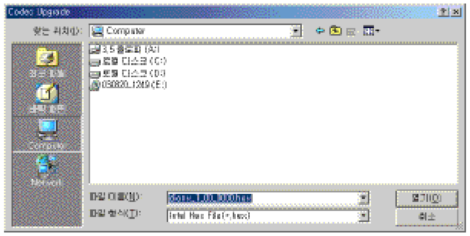
- Download the upgrade file from “www.dionx.co.kr”

3. Run the DionX manager.

- Click the firmware upgrade icon.


DionX Manager
Tool
Help
USB Connected

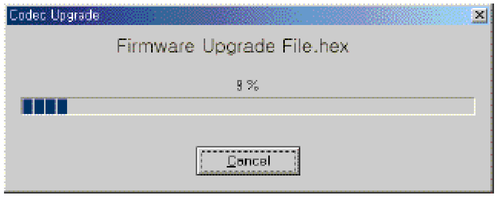
- Search and select the downloaded upgrade file.



Note ※ Refer to page 13 for installing DX-100 driver.

4-4 DionX Manager Program

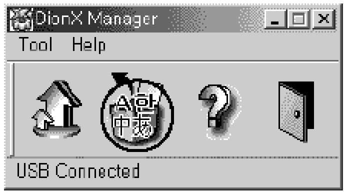
- Upgrade will take place automatically.


Codec Upgrade
Firmware Upgrade File.hex
9 %
Cancel

Firmware Upgrade

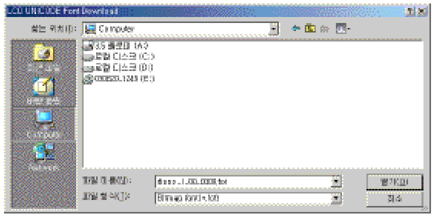
Use "Font Download" function to restore the fonts deleted by formatting the player.
Run "Font Download" when the fonts are not shown correctly.

- Run the DionX manager, and click "Font Download" icon.

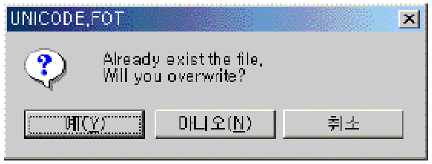

DionX Manager
Tool
Help
USB Connected

4-4 DionX Manager Program

- Download a font file into the removable disk.

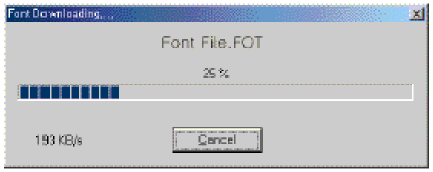

UNICODE Font Download
Computer

- Click Yes to overwrite the existing data.


UNICODE.FOT

Already exist the file.
Will you overwrite?

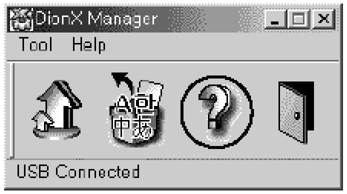
예(Y)
아니오(N)
취소

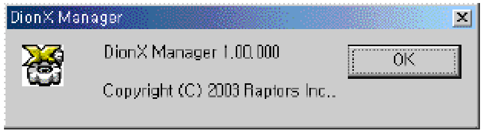

Font Downloading...
Font File.FOT
25 %
193 KB/s
Cancel

4-4 DionX Manager Program

Information

- Click '?' icon to see information on DionX Manager.



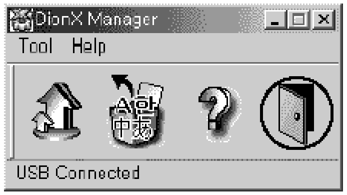


DionX Manager 1.00.000

Copyright (C) 2003 Raptors Inc..

Exit

- Exit the Manager.



5-1 Menu Structure

※ Menu contains two modes: Music Mode & FM Mode

Music Mode

- PRESET EQ
  - Go To Upper Menu
  - Flat
  - Classic
  - Rock
  - Jazz
  - Pop
  - Live
  - User's EQ
- DISPLAY
  - Go To Upper Menu
  - File/Tag — File, Tag
  - Time — Normal, Remain
  - Scroll — X1, X2, X4, Vertical, Horizontal
  - LCD — Playing Bar, Bitrate/Sampling Freq
  - Language — Korean, Japanese, English/EU Chinese(S), Chinese(T)
- SYSTEM
  - Go To Upper Menu
  - Beep — On, Off
  - Resume — Beginning, Last Point
  - Sleep — Off, 10Min~120Min
  - Stop Power OFF — 30Sec, 1Min, 2Min, 5Min, 10Min
  - Backlight — Off, 1Sec~10Sec, On
  - Contrast — Level 1~Level 20
  - System Reset — Yes, No
  - Start With Hold On — On, Off
  - Firmware Upgrade — Yes, No
  - Format — Yes, No
  - Battery — Alkaline, Rechargeable
  - Player Info.
- RECORDING
  - Go To Upper Menu
  - Voice B/R — 32Kbps, 64Kbps, 96Kbps, 128Kbps, 192Kbps
  - Line B/R — 32Kbps, 64Kbps, 96Kbps, 128Kbps, 192Kbps
  - FM B/R — 32Kbps, 64Kbps, 96Kbps, 128Kbps, 192Kbps
  - VAD — On, Off
  - Sync — Sync Off, Sync1, Sync On
- MY SOUND
  - Go To Upper Menu
  - User's EQ — <Graphic reference>
  - 3D — Off, Low, Middle, High
  - Bass — Off, Level 1~Level 5
  - Treble — Off, Level 1~Level 5

FM Mode

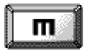
- MEMORY
  - Go To Upper Menu
  - Preset 1~Preset 20
- AUTO MEMORY
  - Yes, No
- SYSTEM
  - Go To Upper Menu
  - Beep — On, Off
  - Sleep — Off, 10Min~120Min
  - FM B/R — 32Kbps, 64Kbps, 96Kbps, 128Kbps, 192Kbps
  - Backlight — Off, 1Sec~10Sec, On
  - Contrast — Level 1~Level 20
  - Player Info.
- FM BAND
  - Go To Upper Menu
  - US/EU/KOR/CHN, JAPAN
- FREQUENCY UNIT
  - Go To Upper Menu
  - 100KHz, 50KHz

5-2 Music Mode

Menu Setup

1. Opening Menu

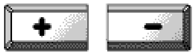
- ● Press M (Menu/Navigation) long to open Menu.



Press long

2. Moving Through Menu Options

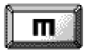
- ● Use +/- buttons to move up and down.



Press Short

3. Selecting a Menu Option

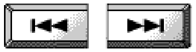
- ● Press M (Menu/Navigation) short to select a Menu option.



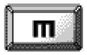
Press Short

4. Moving to Upper Menu / Exiting Menu

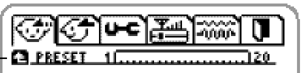
- ● Use |◀◀ button or select the upper menu icon.



Press Short



To exit Menu, press long

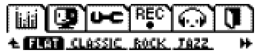

Select
PRESET 1
20

Moving to Upper Menu

5-2 Music Mode

1. Preset EQ

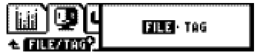
- ● Selects a preset EQ
  - ·[Flat],[Classic],[Rock],[Jazz],[Pop],[Live],[User's EQ]
  - ·Default : [Flat]


REC
FLAT CLASSIC ROCK JAZZ

Flat

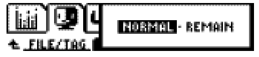
2. Display

- ● File/Tag
  - ·Displays file name or tag information.
  - ·Default : [File]


FILE · TAG
FILE/TAG

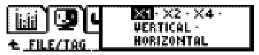
File

- ● Time
  - ·Displays elapsed playing time (Normal) or remaining playing time (Remain).
  - ·Default : [Normal]
  - ·Playing time for a VBR (Variable Bit Rate) file might display correctly.


NORMAL · REMAIN
FILE/TAG

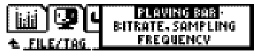
Normal

- ● Scroll
  - ·Sets up the scrolling speed of tag information or file name.
  - ·Default : [X1]


X1 · X2 · X4 ·
VERTICAL ·
HORIZONTAL
FILE/TAG

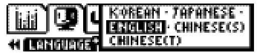
X1

- ● LCD
  - ·Users can choose to display playing bar, bit rate, or sampling frequency information.
  - ·Default : [Playing Bar]


PLAYING BAR ·
BITRATE, SAMPLING
FREQUENCY
FILE/TAG

Playing Bar

- ● Language
  - ·Sets up language for OS in which a music file is created.
  - ·Default : [English]

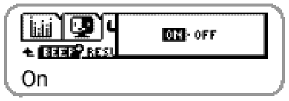

KOREAN · JAPANESE ·
ENGLISH · CHINESE(S)
CHINESE(T)
LANGUAGE

English

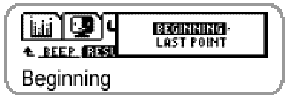
5-2 Music Mode

3. System

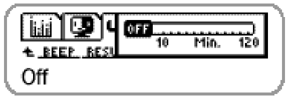
● **Beep**
·Beep on/off
·Default : [On]


BEEP RESU
ON · OFF
On

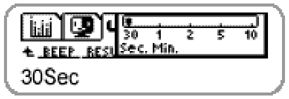
● **Resume**
·Resume from beginning or last point
·Default : [Beginning]


BEEP RESU
BEGINNING·
LAST POINT
Beginning

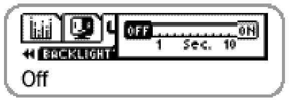
● **Sleep**
·Sleep timer (setup by 10 min interval)
·Default : [Off]


BEEP RESU
OFF
10 Min. 120
Off

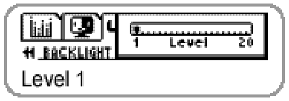
● **Stop Power Off**
·Sets up time for automatic power off when inactive.
·Default : [30 Sec]


BEEP RESU
30 1 2 5 10
Sec. Min.
30Sec

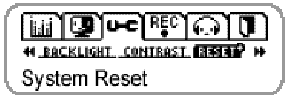
● **Backlight**
·Sets up time for the back light to be on.
·Default : [5 Sec]


BACKLIGHT
OFF
ON
1 Sec. 10
Off

● **Contrast**
·Sets up LCD contrast (level 1 ~ 20)
·Default : [Level 11]

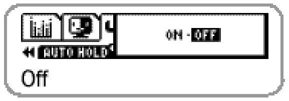

BACKLIGHT
1 Level 20
Level 1

● **System Reset**
·Resets to the factory default state.

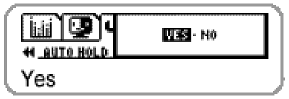

REC
BACKLIGHT CONTRAST RESET
System Reset

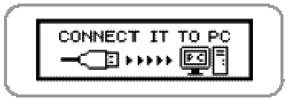
5-2 Music Mode

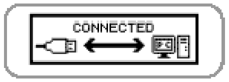
● **Start With Hold On**
·Sets up Auto Hold on or off. When it is on, Buttons get locked when power becomes off.
·Default : [Off]

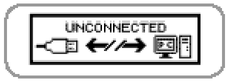

AUTO HOLD
ON · OFF
Off

● **Firmware Upgrade**
·Upgrades functions of the player.
·Default : [No]
1. Turn the power on.
2. Select MENU-SYSTEM-UPGRADE
3. Connect to PC.
4. Run the DionX Manager.
5. Click Firmware Upgrade to complete upgrade.

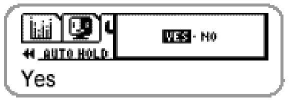

AUTO HOLD
YES · NO
Yes


CONNECT IT TO PC

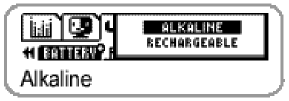



UNCONNECTED

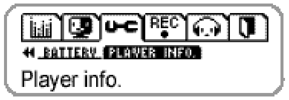
● **Format**
·Formats the player
·All menu or system setups are retained.
·Default : [No]


AUTO HOLD
YES · NO
Yes

● **Battery**
·Sets up the type of battery used for precise measurement on its capacity.
·Default : [Alkaline]


BATTERY
ALKALINE
RECHARGEABLE
Alkaline

● **Player Info.**
·Shows player information.

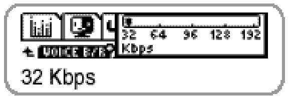

REC
BATTERY PLAYER INFO.
Player info.

Caution
※ Refer to page 35 for detailed information on firmware upgrade
※ Refer to page 33 for more information on format.
※ All data will be lost after formatting.
※ Turning the power on after formatting will reinstate the default folders only.
※ The basic setups and version are retained.

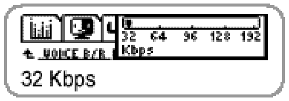
5-2 Music Mode

4. REC Recording

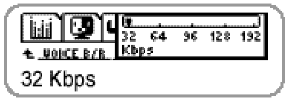
- Voice B/R
  ·Sets up bit rate for voice recording
  ·Default : [32Kbps]


VOICE B/R
32 64 96 128 192
Kbps
32 Kbps

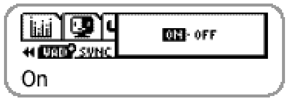
- Line B/R
  ·Sets up bit rate for line-in encoding
  ·Default : [128Kbps]


VOICE B/R
32 64 96 128 192
Kbps
32 Kbps

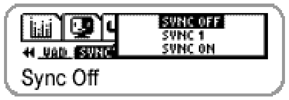
- FM B/R
  ·Sets up bit rate for FM encoding
  ·Default : [32Kbps]


VOICE B/R
32 64 96 128 192
Kbps
32 Kbps

- VAD (Voice Activity Detection)
  ·With this feature on, voice recording takes place when only voice is detected.
  ·When it is off, recording continues until it is stopped.
  ·Default : [On]


VAD SYNC
ON · OFF
On

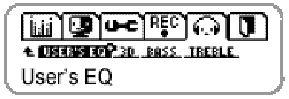
- Sync
  ·Detects tracks and separates recording into a single file automatically.
  ·Sync Off : records as a single file
  ·Sync 1 : records a single file and stops
  ·Sync On : automatically converts each track into a single file and stops.
  ·Default : [Sync On]

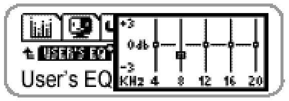

VAD SYNC
SYNC OFF
SYNC 1
SYNC ON
Sync Off

5-2 Music Mode

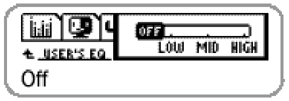
5. My Sound

- User's EQ
  ·Adjustable 5-band EQ
  ·Move between the bands : ◀◀ / ▶▶ (Move left/right)
  ·Adjust the frequency : + / − (Move up/down)
  ·Select : M button

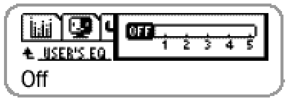

REC
USER'S EQ 3D BASS TREBLE
User's EQ


USER'S EQ
+3
0db
-3
KHz 4 8 12 16 20
User's EQ

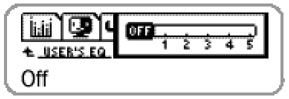
- 3D
  ·[Off], [Low], [Middle], [High]
  ·Sets 3D sound on or off.
  ·Default : [Off]


USER'S EQ
OFF
LOW MID HIGH
Off

- Bass
  ·OFF / Level 1~5
  ·Adjusts bass intensity.
  ·Default : [Off]


USER'S EQ
OFF
1 2 3 4 5
Off

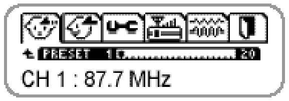
- Treble
  ·Off / Level 1~5
  ·Adjusts treble effect.
  ·Default : [Off]


USER'S EQ
OFF
1 2 3 4 5
Off

5-3 FM Mode

1. Memory

- Stores up to 20 preset radio stations.
  (CH1~CH20)



CH 1 : 87.7 MHz

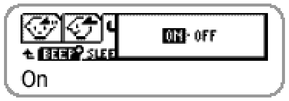
2. Auto Memory

- Automatically tunes and stores radio stations.

Auto Memory

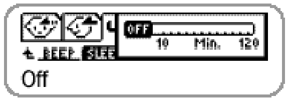
3. System

- Beep
  ·Sets beep sound on or off.
  ·Default : [On]


ON
OFF
BEEP
SLEE

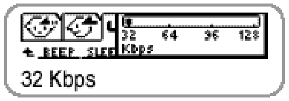
On

- Sleep
  ·Sleep timer. (Adjustable by 10min)
  ·Default : [Off]


OFF
10
Min.
120
BEEP
SLEE

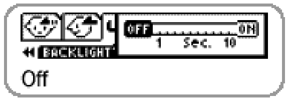
Off

- FM B/R
  ·Sets up bit rate for FM recording.
  ·Default : [32Kbps]


32
64
96
128
Kbps
BEEP
SLEE

32 Kbps

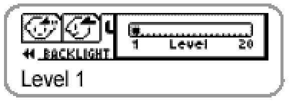
- Backlight
  ·Sets up time for the backlight to be on.
  (Adjustable by sec)
  ·Default : [5Sec]


OFF
1
Sec.
10
ON
BACKLIGHT

Off

5-3 FM Mode

- Contrast
  ·Sets up LCD contrast.
  ·Default : [Level 11]


1
Level
20
BACKLIGHT

Level 1

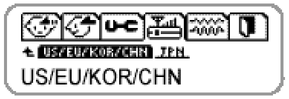
- Player Info.
  ·Shows player information such as the total memory size, available memory, firmware version, and etc.

PLAYER INFO.

Player Info.

4. FM Band

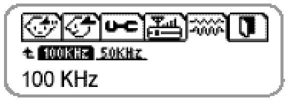
- Sets up FM band by country.
  ·[US/EU/KOR/CHN], [JAPAN] (two bands)
  ·Default : [US/EU/KOR/CHN]


US/EU/KOR/CHN
JPN

US/EU/KOR/CHN

5. Frequency Unit

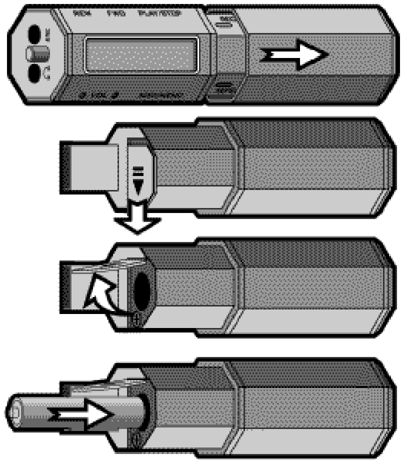
- Sets up the frequency-tuning unit.
  ·Default : [100KHz]


100KHz
50KHz

100 KHz

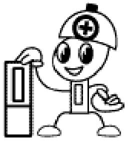
6-1 Inserting a Battery

1. Pull out the USB cover to remove it. ①
2. Push the battery compartment cover in the direction of the arrow shown in the picture. ②
3. Push it up to open the door. ③
4. Insert a AAA battery, ④
   - inside.



Note
※ Make sure + and - locations before inserting a battery.
※ Remove the battery when the player is not in use for a prolonged period of time to prevent damage by corrosion.

6-2 Troubleshooting



No power
- ■ Check whether the battery has been inserted correctly.
- ■ Check whether HOLD is on. (If it is on, set it off.)

Power gets turned off automatically
- ■ Check if Sleep or Auto Off is set on.

No Sound
- ■ Check if earphone is connected to line-in jack.
- ■ Check if volume is at 0.

Noise
- ■ Check for any foreign substance on earphone jack.
- ■ Corrupted MP3 or WMA files may cause a static noise and produce interrupted sound. Check for any file corruption.

Buttons do not work
- ■ Check if HOLD is on. If it is on, turn it off.

No backlight
- ■ Check the Menu setup for backlight option.

Download Failure
- ■ Check if USB is correctly and securely connected.
- ■ If you are using Windows 98, the USB driver must be installed.

00:00 **Playing time is not displayed properly**
- ■ Files with VBR may not display playtime properly. This is normal.

6-3 Technical Specification

Model		DX-100
Supported File Format		MPEG1,2,2.5 Layer3(32Kbps~320Kbps), WMA(32Kbps~192Kbps)
Dimension	Power	1.5V AAA (alkaline) x 1
	Size	25×80×25mm(W×H×D)
	Weight	33g (without battery)
	Material	Plastic
FM	FM	87.5~108.0 (US/EU/KOR/CHN)
		76.0~91.0 (JAPAN)
	Earphone Output	10mmW(L) + 10mW(R) (16 ohm at max volume)
	SNB	50 dB<
Audio	Output Frequency	20Hz~20khZ
	Earphone Output	10mmW(L) + 10mW(R) (16 ohm at max volume)
	SNB	95 dB<
Battery Life		12 hours
USB		Supports 1.1
Operational Temperature		0˚C~ +35˚C
Language		Supports 35 languages(Unicode)

6-4 Warranty

For product malfunction please contact the store where the product was purchased (Or call our Customer Service Center when reaching the purchased store is not possible).

Product Name	Raptors MP3 Player (128/256/512)	Model Name	DX-100
Purchased Date		Serial Number	
Purchased Location		Sale Price	

Free Service

- Service at no charge is available for malfunction due to the defect of unit itself within two years after the purchase date(product warranty period).

Paid Service

- Specified below are the cases of paid service.
  - For malfunction after the product warranty period
  - cosmetic damage or damage due to accident, misuse or improper operation
  - malfunction due to the impact caused by dropping the unit
  - malfunction when other parts and accessories not specified and provided by Raptors Co. were used with the unit