Feature

● **Voice recording & MP3 playback**

● **Graphic LCD(65K OLED)**
It is equipped with Graphic LCD by adopting OLED and support Multi-Languages.

● **Digital interface (USB 2.0)**
It can be used as a data saving device, a portable hard disk.

● **Auto power off**
Power turns off automatically in case of non-use over 1 minute.

● **Listen to an FM & Recording**
Manual tuning / Automatic tuning / FM recording

● **Saving FM Channels**
Preset FM channels up to 20.

● **Firmware upgrade**
With firmware upgrade, it is available to improve & enhance new functions.

● **Adopting portable disk**
The function of portable disk enables you to download & edit any file from PC anywhere.

● **Repeat play function**

● **Function of the section repetition (A-B)**
The desired section can be designated and heard repeatedly.

● **Function of the music search (INTRO):**
Only the front part of each track is played.

● **Various equalizer mode**
Normal, Classic, Live, POP, Rock, Jazz, Ultra-Bass, Metal, Dance, Party, Club, Spatializer, User EQ 1,2

● **Spatializer (3D sound)**
It supports 3D sound in playing music.

● **Monitoring of recording**

Index

Before using

Using

Menu

FM radio

Connection to external device

Others

Before using

Name of each part

Front

- Strap loop
- LCD display
- ➕, ➖, ◄◄, ►► button
- Menu button
- Reset button

Right Side

- Play/Pause(►II) & Power ON/OFF button
- FM/Section repeat(A-B) button
- Rec/Stop button
- Hold Switch

Top

- Built in mic.
- USB port
- Earphone/ Output terminal

LCD display

- EQ mode indicator
- Repeated playback indicator
- Playing time status indicator
- Current status indicator (■Stop, ►Play, IIPause, ●Recording)
- Volume indicator
- Section repeat play indicator
- Battery level indicator
- Play level Indicator
- File name indicator
- Bit rate indicator
- Sampling frequency indicator
- Current file number indicator
- All file number indicator
- File format indicator

NORM A·B

M.C The Max-

01:43

| Accessories |

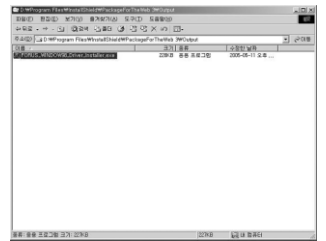MP3 player   Earphone   USB connection cable   Neck strap   User's manual   External device connection cable   CD (win98 driver)

Before using

Win98/ME driver set up

1 **Execute "Forus_Windows98_Driver_ Installer.exe".**

2 **After installation, click install button.**

**3** **When setup is completed, reboot PC.**

Click

Connecting main set to PC

For downloading MP3 files from the PC, first connect the MP3 player to the PC using the USB connection cable. During this operation, Portable Drive is shown on the PC.

● Connect the USB connection cable to the PC USB port on the PC.
● Connect the USB connection cable to the USB port on the main set.
● USB connected appears on the LCD, Portable Drive is shown as below capture.
● When USB connection fails or connection is removed, USB Disconnected is shown.
● Do not pull out USB connection cable before the message 'Don't Remove USB' is shown.
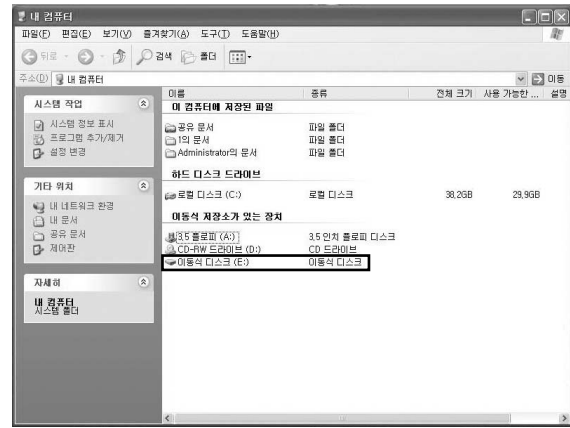
Before Using

Upgrading firmware/fonts

Index of files

- Firm-upf.rom : Firmware file
- Imagebin.tbl : Power on/off. Menu image file
- Ml2uni.dat : File of Unicode converting table
- Unicode.fot : Unicode font file

1 **Connect main set to PC through USB cable.**

2 **Move & save above 4 files to portable disk.**

3 **Remove USB device and disconnect USB cable.**

4 **Upgrading firmware is executed automatically and main set powers off.**

5 **Power on main set again.**
  Upgrading font & other files is executed automatically.
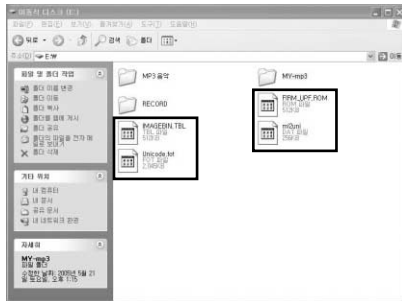
Using DRM

DRM (Digital Rights Management)?

Digital Rights Management, abbreviated DRM, is an umbrella term referring to any of several technical methods used to control or restrict the use of digital media content on electronic devices with such technologies installed.

- When format could proceed after firmware upgrade, save three files of Imagebin.tbl, Ml2uni.dat, Unicode.fot to main set and power on main set again. Then, upgrade is executed.
- When battery is consumed under level 2, upgrade fails and file of firm_upf.rom is deleted. It is recommended to recharge battery fully before upgrade.

Before using

Recharging battery

Recharging starts automatically with connection of main set & PC through USB cable.

PC

● It takes normally 2 hours to recharge fully.
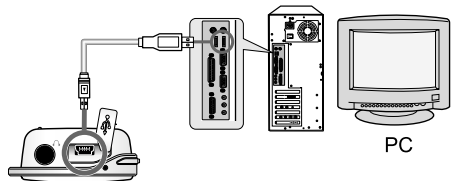
Check remained battery

- Enough
- A little consumed
- Consumed halfway
- Consumed much
- Recharging required

Power on/off

To power on

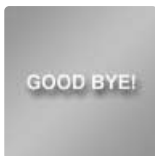**Press Power ON/OFF button over 1 second.**

To power off

● **Automatic power off**
The power automatically turns off when the device is not in use for more than one minute at STOP mode.

● **Manual Power OFF**
Press the Power ON/OFF button and hold to turn the power off.

NORM
ROOT
File-Name.ı
128 44
0:00:00 025
035
WMA

GOOD BYE!

9

How to set up Hold switch function

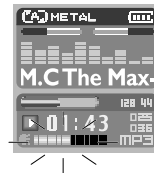Hold switch performs locking function during playback or recording and manual power off function at STOP mode.

**Push the Hold switch upward locks the player.
To remove and unlock the player, push the switch downward.**

How to control volume

You can adjust volume within the stage of 0 ~ 30.

With , button, volume adjusting is available.

METAL
M.C The Max·
128 44
01:43 025
036
MP3

How to change MP3/FM mode

At MP3 mode

Press FM/Section repeat(A-B) button over 3 seconds.

At FM mode

Press FM/Section repeat(A-B) button over 3 seconds.

STEREO
89.1 MHZ

NORM
M.C The Max·
128 44
01:43 025
036
MP3

10

Before using

How to choose folder/file

You can choose folder or file to playback.

At MP3 mode

1   Press Menu button shortly.

2   Move to folder(📁..) with ➕ button and press Menu button.

3   Move to desired folder with ➕, ➖ button and press Menu button.

4   Move to desired file with ➕, ➖ button.

To escape from folder/file mode

Press Play/Pause(▶II) button shortly.

Using

Recording with built-in mic.

To record

1   Press Rec/Stop button over 3 seconds.
- Then go to recording mode.

2   Press Rec/Stop button shortly.
- Recording begins and recording time appears on the display.
- Recording file is saved automatically to Record folder.

To stop recording
Press Rec/Stop button shortly.
- Then recording stops.

To escape from recording mode
At stop mode, press Rec/Stop button over 3 seconds.
- It is changed into MP3 mode.

Using

Playing

To play

1 Refer to page 11, choose file to play.

MP3 Music
Over The
02 [02]
06 [06]
04 [04]

2 or | Press Menu button or Play/Pause（▶Ⅱ）button.

To pause playback

Press play/pause（▶Ⅱ）button.

To switch into other file during playback

Press ⏮, ⏭ button shortly.

Section repeat playback

1 During playback, press FM/Section repeat(A-B) button at the beginning of the part you want.

● A▸ appears.

2 Pressing FM/Section repeat(A-B) button again at the end of the section you would like to repeat will display A▸B again and the player will repeat the section.

To reset the A-B repeat, press FM/Section repeat(A-B) button in A-B repeat to resume playback.

Deleting files

This device does not support deleting function.
It is recommended to delete folder or files on the PC.

To search the desired section within a file

Push ⏮, ⏭ button and hold to play the previous or next part of the currently playing file.

Menu

Structure of menu

MENU

MUSIC
- REPEAT MODE
- EQUALIZE SELECT
- SPATIALIZER
- USER1 EQUALIZE
- USER2 EQUALIZE
- SPEED CONTROL
- FADE IN/OUT

RECORDING
- RECORD SELECT
- LINE-IN S-RATE
- LINE-IN BITRATE
- VOICE S-RATE
- VOICE BITRATE

FM RADIO
- FM RADIO PRESET
- FM RADIO REGION

SYSTEM
- SCROLL TYPE
- SCROLL SPEED
- DISPLAY OFF TIME
- MEMORY SIZE
- MEMORY FORMAT
- LANGUAGE SELECT
- LOAD DEFAULT
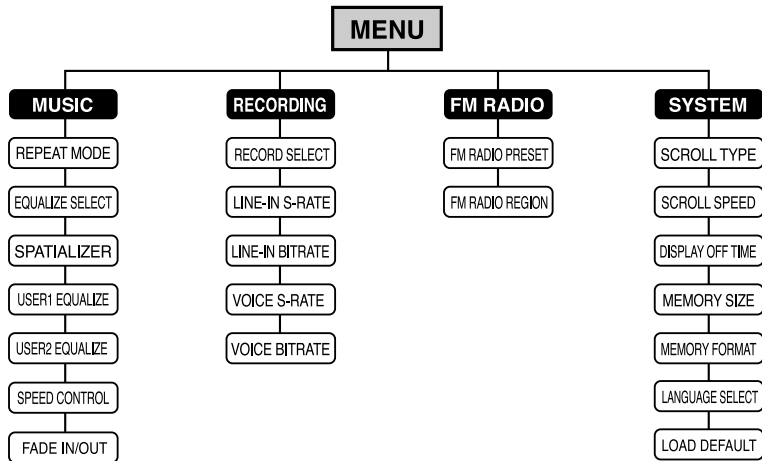
Using menu

1 Press Menu button over 3 seconds.

2 Move to desired menu with ⊞ , ⊟ button and press Menu button.

3 Move to desired sub-menus with ⏮ , ⏭ button and press Menu button.

> 1. REPEAT MODE
> ▶◉ ALL FOLDER
> ○ ONE FOLDER
> ○ RANDOM ALL
> ○ ONE FILE
> ○ EXIT

4 You can set up sub menu by using ⊞ , ⊟ & Menu button together.

> 1. REPEAT MODE
> ○ ALL FOLDER
> ○ ONE FOLDER
> ▶◉ RANDOM ALL
> ○ ONE FILE
> ○ EXIT

- **To return to previous mode,** press Menu button over 3 seconds.
- **To escape from menu,** press Rec/Stop button.

Menu

Music mode

MENU > MUSIC > REPEAT MODE

● All folder : Repeat & playback all folders
● One folder : Repeat & playback one folder
● Random all : Repeat & playback all files at random
● One file : Repeat & playback one file

```
1. REPEAT
   MODE
O ALL FOLDER
O ONE FOLDER
▶O RANDOM ALL
O ONE FILE
O EXIT
```

MENU > MUSIC > EQUALIZE SELECT

You can select Normal, Classic, Live, POP, Rock, Jazz,
Ultra-Bass, Metal, Dance, Party, Club, Spatializer, User EQ 1, 2.
● Spatializer : This is 3D sound mode which users can set up.
● User EQ : You can adjust the equalizer.

```
2 . EQUALIZE
    SELECT
▶O NORMAL
O CLASSIC
O LIVE
O POP
O ROCK
```

MENU > MUSIC > SPATIALIZER

This is 3D Sound Mode.

● Mode (3DS, Mode PCE)
● SPACE (High, Mid, Low)
● PCE (0~5) : This is used to improve sound distortion,

```
3 . SPATIALI
    -ZER
O MODE    3DS
O SPACE   MID
▶O PCE     2
```

MENU > MUSIC > USER1 EQUALIZE

You can adjust the equalizer.

```
5 . USER1
  EQUALIZE
```
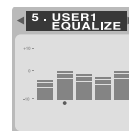
MENU > MUSIC > SPEED CONTROL

This is used to control playback speed.

● You can control playback speed within -25% ~ +25%.
● -25% is the slowest speed , +25% is the fastest speed.

This function is only applied in playing MP3 files.

```
6 . SPEED
   CONTROL
SPEED  +0.4%
-  ▭▭▭▭▭  +
```

MENU > MUSIC > FADE IN/OUT

Fade in : Music begins with low volume at the beginning.
Fade out : Music ends with low volume at the end.

```
7 . FADE
   IN/OUT
▶O OFF
O ON
O EXIT
```

Menu

Recording mode

MENU > RECORDING > RECORD SELECT

Select Mic or Line recording.

● MIC INPUT : Recording with built-in mic.
● LINE INPUT : Recording with external device

```
◄  1 . RECORD
      SELECT  ►
► ○ MIC  INPUT
  ○ LINE  INPUT
  ○ EXIT
```

MENU > RECORDING > LINE - IN S - RATE

When you do line in recording, you can adjust sampling frequency among 32/44.1/48KHz.
The higher frequency you choose, the better sound quality you have.

```
◄  2 . LINE - IN
      S - RATE  ►
► ● 32KHZ
  ○ 44.1KHZ
  ○ 48KHZ
  ○ EXIT
```
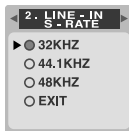
MENU > RECORDING > LINE - IN BITRATE

When you do line in recording, you can adjust bitrate among 32, 40, 48, 56, 64, 80, 96, 112, 128, 160, 192, 224, 256, 320KBPS.
The higher frequency you choose, the better sound quality you have.

```
◄  3 . LINE - IN
      BITRATE  ►
  ○ 56KBPS
  ○ 64KBPS
► ● 80KBPS
  ○ 96KBPS
  ○ 112KBPS
```
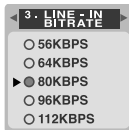
MENU > RECORDING > VOICE S-RATE

When you do recording with built-in mike, you can adjust sampling frequency among 32, 44.1, 48KHz.
The higher frequency you choose, the better sound quality you have.

```
◄  4 . VOICE
      S-RATE  ►
  ○ 32KHZ
  ○ 44.1KHZ
► ● 48KHZ
  ○ EXIT
```

MENU > RECORDING> VOICE BITRATE

When you do recording with built-in mike, you can adjust bitrate among 32, 40, 48, 56, 64, 80, 96, 112, 128, 160, 192, 224, 256, 320KBPS.
The higher frequency you choose, the better sound quality you have.

```
◄  5 . VOICE
      BITRATE  ►
  ○ 32KBPS
  ○ 40KBPS
  ○ 48KBPS
► ● 56KBPS
  ○ 64KBPS
```
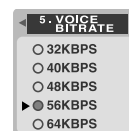
Menu

FM mode

MENU > FM RADIO > FM RADIO PRESET

You can listen to saved channels.

```
◄ 1. FM RADIO ►
     PRESET
   ○ 01    106.1
   ○ 02     93.1
   ○ 03     89.1
 ►● 04     91.9
   ○ 05     95.9
```

MENU > FM RADIO > FM RADIO REGION

Frequency could increase or decrease in 0.1 or 0.05Mhz according to FM Radio Regions.
● KOREA/US : 87.5MHz~108MHz
● EU/CHINA : 87.5MHz ~ 108MHz
● JAPAN : 76MHz ~ 108MHz

```
◄ 1. FM RADIO ►
     REGION
 ►● KOREA/US
   ○ EU/CHINA
   ○ JAPAN
   ○ EXIT
```
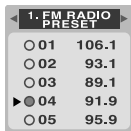
System mode

MENU > SYSTEM > SCROLL TYPE

This function is used to display fine name or IDTAG name during playback.

● FILE NAME : Display file name
● IDTAG NAME : Display tag name

```
◄ 1. SCROLL ►
     TYPE
 ►○ FILE NAME
   ○ IDTAG NAME
   ○ EXIT
```

MENU > SYSTEM > SCROLL SPEED

You can adjust scroll speed of file or tag name among 20 ~ 170 MSEC.
Higher number comes with higher speed.

```
◄ 2. SCROLL ►
     SPEED
   ○ 20MSEC
   ○ 30MSEC
   ○ 40MSEC
 ►● 50MSEC
   ○ 60MSEC
```
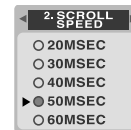
MENU > SYSTEM > DISPLAY OFF TIME

You can adjust backlight time among 10 ~ 60 seconds.
Backlight is always on at the EVER ON mode.

```
◄ 3. DISPLAY ►
   OFF TIME
   ○ 10SEC  OFF
   ○ 20SEC  OFF
   ○ 30SEC  OFF
 ►● 40SEC  OFF
   ○ 50SEC  OFF
```
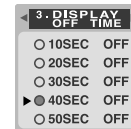
MENU > SYSTEM > DISPLAY BRIGHT

You can adjust display brightness.

```
◄ 4. DISPLAY ►
     BRIGHT
    +

    _
```

Menu

System mode(Continued)

MENU > SYSTEM > MEMORY SIZE

You can check remained memory capacity.

```
5 . MEMORY SIZE
TOTAL :
  122.5 MB
REMAIN :
  5.9 MB
```

MENU > SYSTEM > MEMORY FORMAT

● All ERASE : Delete all files
● QUICK : Delete all files and return to the default.
● QUICK & FONT : Return to the default and initialize fonts.
● LOW LEVEL : Delete all files and return to the default. Check bad
  sector of memory. This function takes long time and it is
  recommended to execute this function after battery is charged fully.

```
6 . MEMORY FORMAT
▶● ALL ERASE
 ○ QUICK
 ○ QUICK&FONT
 ○ LOW LEVEL
 ○ EXIT
```
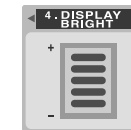
MENU > SYSTEM > LANGUAGE SELECT

ENGLISH / KOREAN / JAPANESE / CHINESE-SI /
CHINESE-TR / RUSSIAN.

```
7 . LANGUAGE SELECT
 ○ ENGLISH
 ○ KOREAN
 ○ JAPANESE
▶● CHINESE-SI
 ○ CHINESE-TR
```

MENU > SYSTEM > LOAD DEFAULT

● On : To initialize the default value at the moment of purchase.

```
8 . LOAD DEFAULT
▶● ON
 ○ EXIT
```

FM radio

Listen to FM

1 Press FM/Section repeat(A-B) button
over 3 seconds.
● To move into FM Radio.

2 Select channels
● Manual Search : Press ◄◄ , ►► button shortly.
● Auto Search : Press ◄◄ , ►► button long.
● Preset Search : Press Menu button shortly and select saved
                channel with ◄◄ , ►► button.

FM radio

Preset FM channels

You can save channels up to 20.

1   **Select channel.**

2   **Press Menu button shortly.**

3   **Select channel number with ⏮, ⏭ button.**

4   **Then, press Rec/Stop button to save channel.**

Listening to preset channels

1   **Press Menu button shortly.**
- To escape from preset mode, press Menu button shortly.

2   **Select saved channel with ⏮, ⏭ button.**
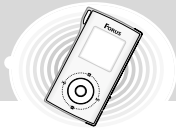
FM radio

Recording FM

To record FM radio

While listening to FM, press Rec/Stop button shortly.

`89.1 MHz`
`FMREC008`
`0:00:43`

To stop FM recording

Press Rec/Stop button again and recording stops.

Connection to external device

Connecting to external audio

Recording from external device

Connect the audio cable to line in of this main set and earphone jack of the external device.

외부기기 연결 케이블

이어폰단자
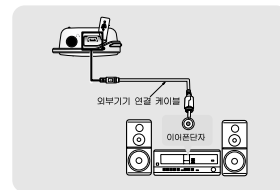
To start recording

Before recording, set up line input on record select mode.

Press Rec/Stop button and Play button of external audio at same time.

● Recording begins at the main set.
● Recording file is saved in the Line folder.

To stop recording

Press Rec/Stop button and Stop button of audio.

● You can adjust recording sound level with audio volume key.

Cautions

For the unit

1. Do not drop the unit or give a shock to the unit. It may cause a malfunction.

2. Do not leave the unit in such a location as described below.

- A place of very high temperature (60℃)
- A place subject to direct sunlight or near heat sources
- A car with its windows closed (especially in summer)
- A place subject to excessive moisture like a bathroom
- A place subject to excessive dust

3. Do not apply heavy forces to the LCD (Liquid Crystal Display) unit, or it may cause breakage or abnormal display taking into account the properties of liquid crystal.

4. If you place cards using magnetism such as cash cards or transportation pass cards near to the speaker of the unit, the magnetism may be transformed due to magnetic influence so that the magnetic cards cannot be used any more.

5. Our company does not reimburse you for any loss from the use of the MP3 Player or any demand of indemnity from a third party.

6. Message loss due to malfunctions, repairs, etc is not a responsibility of ours. Please understand this.

For your safety

1. Do not repair, disassemble or modify this unit by yourself.

2. Do not use this unit in an airplane or place where the use of electronic machines are prohibited.

3. Do not use during you are driving or walking. It may cause an accident.

Trouble shooting

LCD doesn't work.	Check1 Is the battery's power exhausted?	▶ Replace the battery with a new one. (Refer to page 9)

Recording doesn't work.	Check1 Is the device locked by the Hold switch?	▶ Release the Hold switch.
	Check2 Has the memory or file numbers been used up?	▶ Delete unnecessary files. (Refer to pages 14, 23)
	Check3 Is the battery's power exhausted?	▶ Replace the battery with a new one.(Refer to page 9)

Playback doesn't work.	Check1 Is the device locked by the Hold switch?	▶ Release the Hold switch.
	Check2 Could it be that there is no voice file or MP3 file?	▶ Check the folder and file numbers.
	Check3 Is the battery's power exhausted?	▶ Replace the battery with a new one.(Refer to page 9)

No sound comes from the speaker.	Check1 Is the volume set to '0'?	▶ Adjust the volume. (Refer to page 10.)
	Check2 Is the earphone plugged in properly?	▶ Plug the earphone in properly.

No power or malfunction	Check1 Press Reset button and press Power ON button again.

Specifications

Memory Capacity	**Internal/128MB/256MB/512MB/1GB**
Voltage	3.7V
Battery	LI-POLYMER
LCD	Graphic OLED(6 Line 96×96 65K color)
Size (W×H×D)/Weight	35.8×67.3×16mm / 35g
Case	ABS
File Transfer Rate	25Mbps(USB 2.0)
Voice Recording	MPEG1, Layer-3
Noise	90dB
Earphone Output	10mW
Output Frequency Range	87.5MHz ~ 108.0MHz

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