P/N : SAF210M0B1

mobiBLU®

http://www.mobiblu.com

mobiBLU®

http://www.mobiblu.com DAH-2100

User's Manual

※ Please read this user's manual carefully before getting started.

※ Recharge the built-in battery using the USB cable supplied with the device before getting started.

Getting Started *3 Page*

Safety Precautions/ Special Features/ Specifications/ Accessories/ Location of Controls/ Buttons/ Display/ Power/ Recharge/ Connection with PC/ Disconnection from PC

Basic Functions *24 Page*

Power on / Power off /
Modes/ Navigation / Hold/

Player *30 Page*

Listening to Music/ File Selection/ Section Repeat/ Folder Setting for Play/ EQ/ Tempo/ Delete File/ Movie

Recorder *40 Page*

Voice Recording/ Music Recording
Listening to Recorded Files

Album *48 Page*

View Image

Reader *50 Page*

View Text

FM Radio *52 Page*

FM Radio/ Territory/ Scan Frequency/ Save Channel/Preset Mode/ Delete Channel/ Recording program

Setting System *62 Page*

Setting System

Program *66 Page*

System Requirement/ Driver for Windows 98SE/ Converter/ AVI Maker/ Converting File/ File Download-Upload/ Format

Support *80 Page*

This may not be a trouble!

FCC RF INTERFERENCE STATEMENT
Warranty Card

Getting Started

Safety Precautions 4
Special Features 7
Specifications 9
Accessories 10
Location of Controls 11
Buttons 13
Display 15
Power 17
Recharge 19
Connection with PC 20
Disconnection from PC 21

- Carefully read this part before using the device.
- The Safety Precautions are classified into three categories; Danger, Warning and Caution.
- We are not responsible for any damage or loss if the device was not used in conformity with these precautionary provisions.

⚠ Danger	The user may be in danger of death or a major injury if he/she does not use the device in conformity with the provisions stated in this mark.
⚠ Caution	The user may be subject to a minor injury or property damage when he/she does not conform to the provisions of this mark.
⚠ Warning	The user may be subject to a major injury if he/she does not conform to the provisions disclosed in this mark.

⚠ Danger

- Avoid the Device from dropping or receiving excessive shock. It may damage the Device. Fire or electric shock may take place with the damaged Device.

- Don't put the Device close to any heating device or under direct sunlight. It may explode.

- Don't use the earphone set while riding a bicycle or motorcycle, or driving a car.

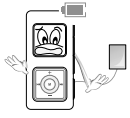
- Don't touch the device with a wet hand.

- Don't disassemble or modify the device at your own discretion.

⚠ Caution

- Distributing music files without authorization is against copyright law.

- Continuous recharge after the completion of battery recharge may damage the product.



⚠ Warning

- The manufacturer is not responsible for any damaged data stored in the device if the device error was caused by the user's carelessness. The data stored in the device may be deleted or damaged during A/S.

- Never use any chemical or cleanser to clean the device this may damage the surface of the device.

- Listening to sound sources with a high volume may cause a hearing disorder.

- Take a good care to avoid the headphone or earphone from being caught between doors.

- Keep the device away from children's access. Parental attention is advised for children's use.

- Immediately reset the device when it generates excessive heat or if there is a burning smell, and then contact our A/S agent for repair.

- Avoid humidity and dusty areas

Special Features

1. Voice Record / MP3 Play
   The device enables you to record voice (voice recorder) whiling enjoying MP3 files (MP3 Player).

2. View Text / Image
   You can view both texts and images.

3. Movie
   Enjoy movies and music video's with the device.

4. Digital Interface (USB 2.0)
   Using a USB cable, the device can communicate with a PC for transferring MP3 files, Recorded files and e-mail.

5. Auto Power Off
   The power automatically goes off after a preset period of time when no button manipulation has been made.

6. FM – Listening & Recording
   You can scan for FM programs both manually and automatically to listen to and record programs you desire.

7. Removable Disk Driver
   The device can be used also as a removable disk for file transferring.

Special Features

8. Repeat
   You can listen to files and folders repeatedly.

9. Section-repeat
   In playing a file, you can listen to a certain streaming range repeatedly.

10. Fast Search
    You can easily find a certain part in the file you are listening to.

11. EQ setting
    Select the sound tone you desire among, NORMAL, CLASSIC, JAZZ, POP, ROCK, DANCE and ULTRA BASS.

12. Monitoring Recorded Files
    You can monitor what you are recording with the aid of an earphone.

13. Firmware Upgrade
    Through upgrading the firmware in the device, you can keep your device updated for new functions and file types.

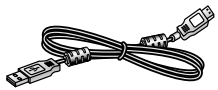
Specifications

Functions	Items	Specifications
FM Tuner	FM Frequency Range	87.5MHz ~ 108.0MHz
	Headset Output	Max. 7mW (16 Ω) at Max. Volume
	S/N Ratio	50dB
	Antenna	Headset/earphone code antenna
Audio	Frequency Characteristics	20Hz ~ 20KHz
	Headset Output	Max. 15mW (16 Ω) at Max. Volume
	S/N Ratio	90dB
Supporting Files	Supporting file types	MP3, WMA, OGG, JPEG, TXT, AVI
	Bit Rate	MP3 : 8~320Kbps, WMA : 32~192Kbps OGG : Q0~ Q10
USB	Download speed	30Mbps (USB Ver 2.0)
Recording period		Voice: 1,040 minutes (with 256MB/ at 32Kbps)
Max. Playback hours		Audio: 12hours Video: 4hours
Operating Temperature		-5℃~70℃
Size (W*H*D)		31mm x 65mm x 14mm
Weight (battery inclusive)		31g
Battery (built-in)		Li-Polymer

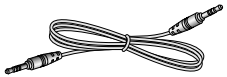
Accessories

※ The depicted images of below accessories may look slightly different to their actual looks.

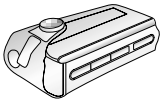
※ The accessories of below lineup can be changed without prior notice.



USB Cable



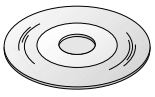
Line-in Cable



Portable Case

Neck Strap

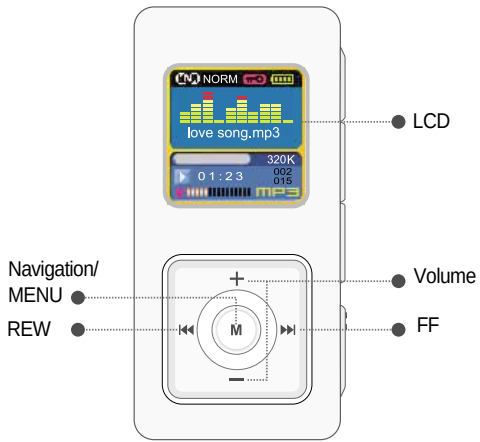
Earphone



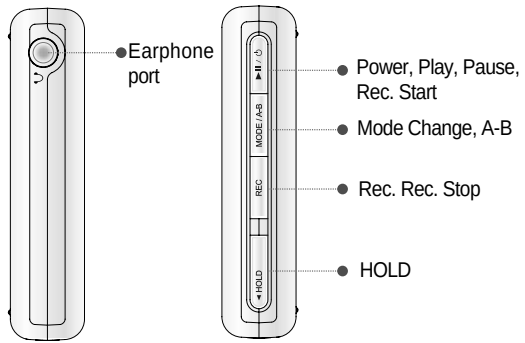
Program CD

User's Manual

Front



Side



Top/Bottom

∗Power ON/OFF
∗Play/ Pause

∗Mode Change
∗A-B Section Repeat

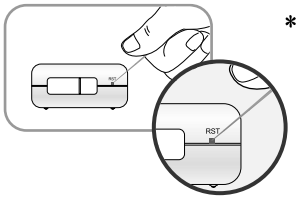
∗Voice recording, Music recording, FM Radio recording

∗HOLD all button functions

∗Volume increase or decrease
∗Search
- move from navigation/menu to up or down menus.

∗Entering navigation / Menu mode
∗Save & Enter set value

∗Move to the previous/next file
∗Search in the file
∗Search
- move from navigation/menu to up or down menus.



∗ When there is any malfunction or failure presented in the device, press RESET button with a pointed object to turn off the power.

∗ Press ►II / ⏻ button and hold to turn the power on again.

Note!

- Don't press RESET button with a strong force, it may cause damage.
- Files saved in the device will remain harmless. Reset the device whenever needed.

Music Mode

■ You can enjoy music files in this mode.

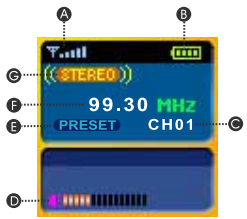
A: Play Mode
B: EQ
C: HOLD
D: Battery Capacity
E: File Name
F: Bit Rate
G: Total Number of Files/
Currently 'Playing' File No.

H: 'Playing' file format
I : File Elapsing Time
J: Volume
K: Play status (Play/ Pause/ Stop)
L: Process Bar

Recording Mode

A: Battery Capacity
B: Bit-rate
C: 'Recording' elapsing time
D: Volume
E: Recording status (recording/ pause)
F: REC
G: File name (Voice/ Line-in/ FM)

FM Mode



A: Signal receiving sensitivity
B: Battery Capacity
C: Channel No.
D: Volume
E: PRESET Mode
F: Frequency
G: Stereo/ Mono

Battery Remainder Display

When initially turning on the device, the battery status may vary.
It is stabilized 5 to 6 seconds after the power is ON.

(Full) (Mid) (Low)

※Recharge the battery using a USB cable in the following cases;

① "Low Battery" displays on LCD
② The buttons are not functioning correctly
③ LCD is not activated by pushing the power button.

Battery Type	MP3 playing
Lithium Polymer	12hours (580mAh)

■Playback hours

① Playback hours with the built-in batter: 12hours
② MP3: 128Kbps
③ Volume: based on 20
④ The above results were derived from the test on the built-in Lithium-Polymer Battery and are subject to varying according to the using condition.

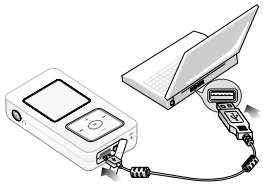
Built-in Battery

- Don't use damaged built-in battery or AC-adaptor.
- Avoid excessive recharge longer than specified hours (3hours) to prevent fire.
- Fully recharge the battery when trying to use it for the first time or after a long-term disuse (longer than 1 week).
- When the 'using hours' of the battery gets shorter in comparison with recharging hours, replace the battery.
- Since the battery supplied with the device is consumable the using hours of it slowly gets reduced.
- The built-in battery can be recharged about 500 times.
- Avoid any metal part from contacting DC converter or built-in battery to avoid unexpected fire or electric shock.

Disposal

The Device includes a built-in Lithium-Polymer battery. The battery is recyclable so please return it to nearest 'recycle center' when you dispose the Device. Don't disassemble the device for disposal.

Recharge



1. Connect the device into a PC using the USB cable supplied in the package.

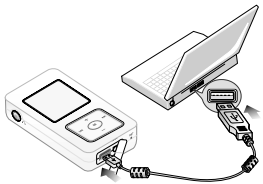
2. Press ►II / ⏻ button to turn on the power.

3. Disconnect the USB cable from the computer (safe hardware removal; see page 21)

Note!

- It takes approximately 3 hours to completely recharge a completely consumed battery.
- Recharge the device using a USB cable when LCD is not activated.

Connection to PC



1. Connect the device into a PC using the USB cable supplied in the package.

2. Press ►II / ⏻ button to turn on the power.

3. The screen displays the icon

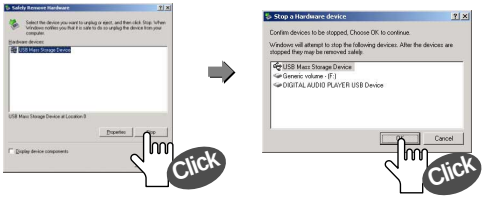
if the connection is correctly made.

Note!

Don't disconnect the device from the PC when "Connected" message is displayed on LCD. It may cause unexpected error.

1. Double click on the green arrow on the right-bottom part of the initial Window screen.

2. Click on Stop and OK (enter) consecutively after selecting “USB Mass Storage Device”



3. Click on OK (enter) on the “Safety removal of the hardware” message bar followed by cable removal.

Note!

- What’s USB (Universal Serial Bus)? This is the new data connection system between a PC and its peripheral devices.
- Connect the USB cable supplied with the Device into a USB port in PC. Unexpected error can be occurred when connecting the cable to the USB port located in the front face of the PC or USB hub.
- The Device can not be identified in the PC installed with Windows 98SE or lower version. Install the program CD supplied with the Device in the PC.

In the case with Windows 98SE

Open “My Computer” or “Windows Search” and click on “Removable Disk.” click on “Remove” using the right mouse button and then remove the USB cable.

Note!

- Removing the cable without following the above instructions may cause a fatal error in the PC or the device.
- Removing the cable while downloading or uploading files, or formatting the device may cause a fatal error in the PC or the device.

MEMO

Basic Functions

Power On/ Off 25
Modes 26
Navigation 27
Hold 28

Power ON

Press ►II / ⏻ and hold to turn the power on.

Note!

- The device is not activated when it is in HOLD mode. (“Intro” only is displayed)
- When the battery is discharged the display shows and the device is not activated.
- Recharge the battery when LCD is not activated using the USB cable supplied in the package.

Power OFF

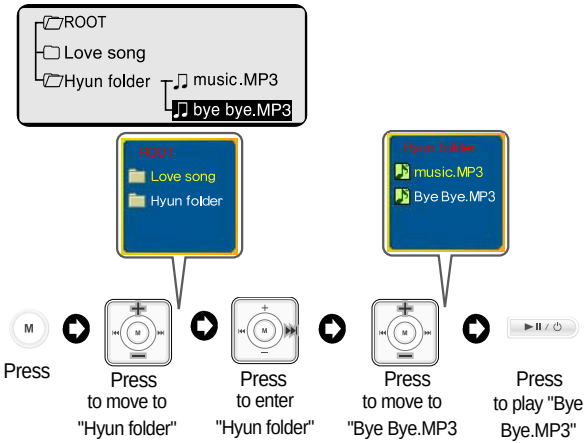
Press ►II / ⏻ and hold to turn the power off.

Note!

- When you try to play the file again by pressing ►II / ⏻ , following the restart of the device, it completely recovers all previous settings. All track numbers, the equalizer and other settings are recovered.

- There are all 9 modes programmed in the device; Music Player, Voice Player, ENC Player, FM Radio, Album, Voice Recorder, ENC Recorder, Reader, System Setting
- The modes have different functions respectively.

Illustration) when trying to play “bye bye”;

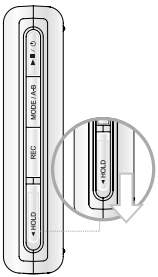


To move to the upper folder level;

■Press to return to upper level

■Press M and hold to get out of the Navigation mode.

HOLD



1. Place the button on the side of the device to the arrow direction to hold all key functions

2. No key is functioning in Hold status.

Note!

- No key is functioning in Hold status.
- Power can not be turned on when it is on Hold. (a HOLD indication is displayed shortly).

MEMO

Player

Listening to Music 31
File Selection 32
Section Repeat 33
Folder Setting for Play 34
EQ 35
Tempo 36
Deleting File 37
Movie 38

Music Playing/ Stop

In Stop or Pause mode

Press ►II / ⏻ – to play the file

In Play mode

Press ►II / ⏻ – to pause the file

Volume control

Push – to adjust the sound volume

Moving to other files

In Stop, Pause or Playing

Push – to move to the previous/next file

Note!

Push while a file is playing to fast search a certain part in the current file (FF/REW).

Searching files

■ In Playing;

press to play next/ previous file
press and hold to search forward/ backward

■ In Stop mode;

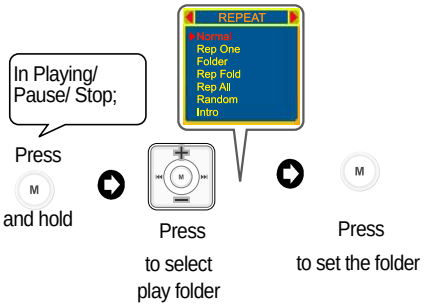
press to move to next/ previous file by one step
press and hold to continually move forward/ backward

■ The set section in the file is repeatedly played.

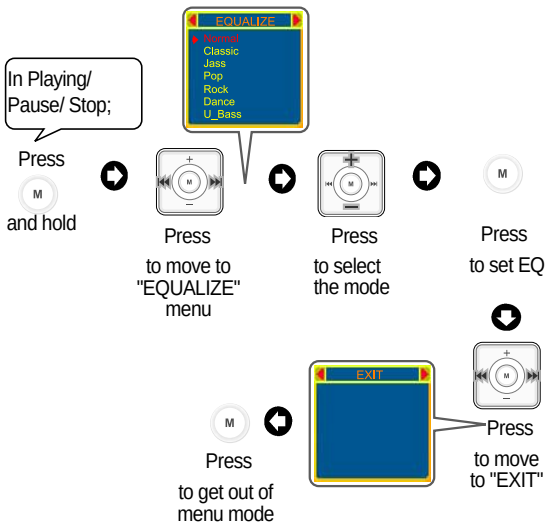
■ Press MODE / A-B to cancel the section.

Note!

- The end of the file will be set for “B” If it is not specified.
- “B” can be only set 5 second after “A” setting.



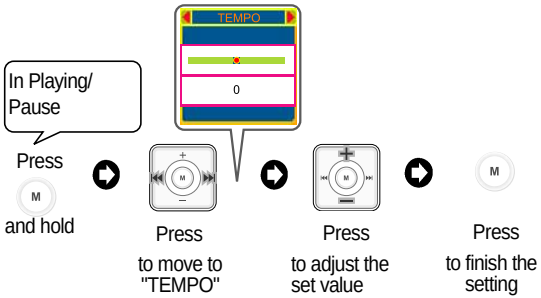
- N: Normal: plays music files once in correct sequence.
- 1: Rep One: repeats the current file continually.
- D: Folder: plays the folder where the currently playing file is located.
- F: Rep Folder: repeats the folder where the currently playing file is located
- A: Rep All: repeats all files in correct sequence.
- Shuf: Random: repeats all files continually in random sequence.
- Intro: Intro: only plays the initial parts of a file for 10 seconds.



Note!

- The method how to get out of Menu Mode to Main Screen is same for all other cases.

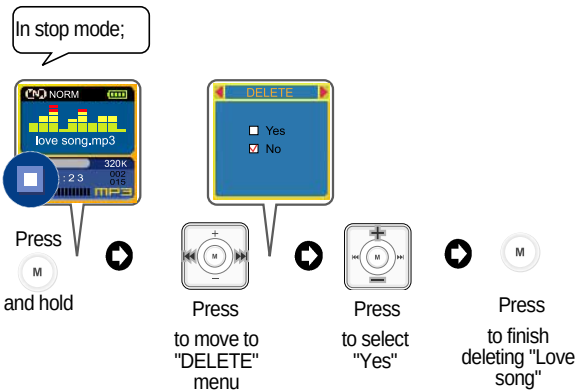
■You can adjust the file playing speed (-8-8)



Note!

- You can only enter and set "Tempo" menu when the file is in playing or pause.

Illustration) When deleting "Love song.MP3" file;



Note!

- You can only enter "DELETE" menu when the file is in Stop.
- Once removed file can not be recovered.

■ The method to play movie files is the same as that of music file.

Note!

- Convert video (movie) files into AVI using an AVI converter (see page 69).
- No other function is available while a movie is playing. Stop the playing first to use other functions such as menu setting and navigation.
- When the size of the movie file is big, it may take a while before starting.

MEMO

Recorder

Voice Recording 41
Music Recording 43
Listening to Recorded Files 46

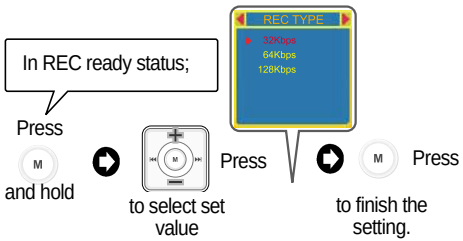
■Press ►II / ⏻ in recording to pause the recording and press ►II / ⏻ again to resume.

Note!

- Recorded files are stored in MP3 format in the VOICE folder in the following sequence; V001.MP3, V002.MP3...
- Press REC in Playing, Stop or Pause mode to get into recording-ready mode.
- The recording will be interrupted when the memory gets full . The pre-recorded voice source only is stored in the memory in this case.
- Sound quality may vary according to the distances from the sound source.
- In the case where the power is not enough to run the device, the recording may not be done adequately.

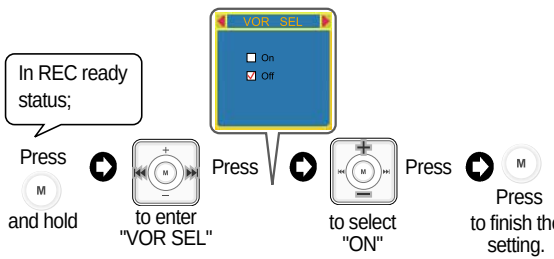
REC TYPE

■You can set the bit-rate for voice recording (among 32, 64, 128Kbps)

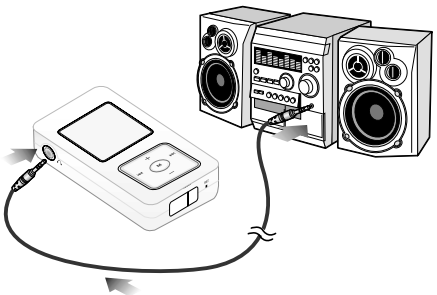


VOR SEL

■This function pauses the recording whenever no sound source is presented. It resumes the recording if it detects any sound source.

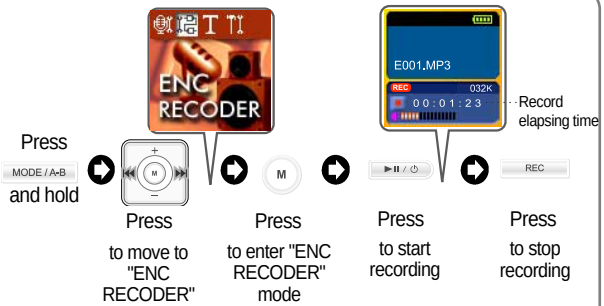


■Connect the device into the external audio player with the Line-in cable supplied in the package.



Note!

●Analog sound signals can be converted into digital sounds by recording the external audio sources with the Line-in cable supplied in the package.



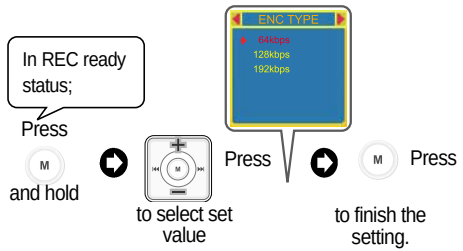
■Press ►II / ⏻ in recording to pause the recording and press ►II / ⏻ again to resume.

Note!

●Recorded files are stored in MP3 format in ENC folder in the following sequence; E001.MP3, E002.MP3...
●The recording will be interrupted when the memory gets full FULL. The pre-recorded voice source only is stored in the memory in this case.
●In the case where the power is not enough to run the device, the recording may not be done adequately.

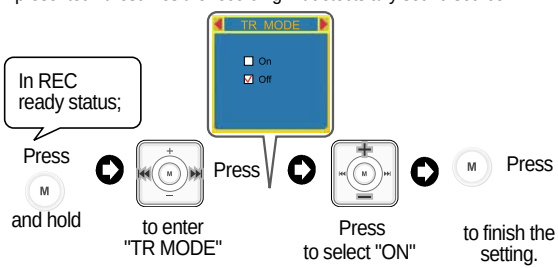
ENC TYPE

■You can set the bit-rate for music recording (among 32, 64, 128Kbps)



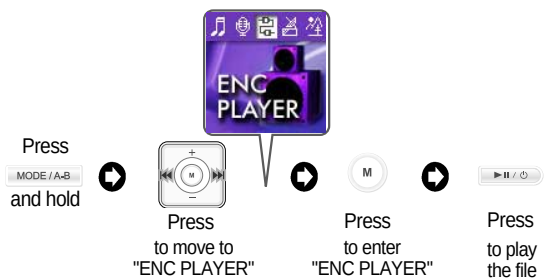
TR MODE

■This function pauses the recording whenever no sound source is presented. It resumes the recording if it detects any sound source.



Listening to Recorded File (Voice)

Listening to Recorded File (Music)

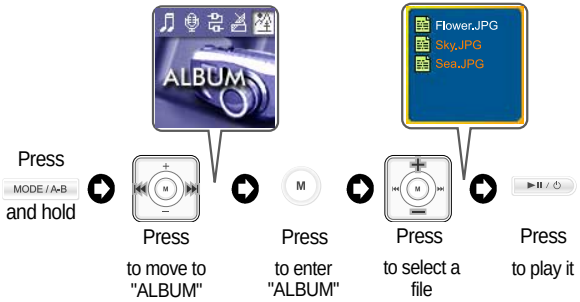


MEMO

Album

View Image 49

View Image



■Press ►II / ⏻ while viewing a file to return to ALBUM Navigation.

Press M to return to main navigation screen.

Note!

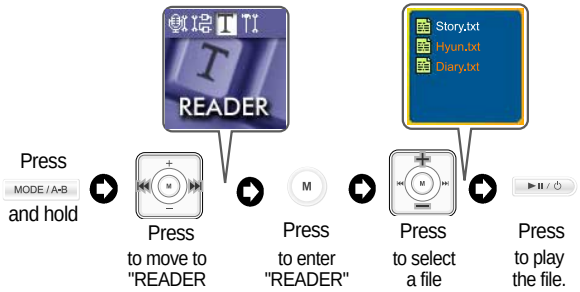
- The images should be converted into the sizes of 96*96dpi.
- Background light is always on while you are viewing images.
- It may take longer to display the image with big size.

Reader

View Text 51

View Text

1. Enter texts by opening <Start – Programs – Accessory – Notepad> on the PC screen.
2. Connect the device with a PC and copy-paste into the device.
3. Remove the device from the PC (Safe Hardware Removal: see page 21).



■ Press in viewing the text to view the next/ previous lines.

■ Press in viewing the text to view the next/ previous pages.

FM Radio

Territory ····· 53
Scan Frequency ····· 54
Save Channel ····· 55
Preset Mode ····· 57
Delete Channel ····· 58
Recording program ····· 59

Press
MODE / A-B
and hold

Press
to move the “FM RADIO” mode

Press
M

to enter the mode and receive the radio signals.

Note!

- The earphone takes the role of an antenna.

- This function helps you set the correct frequency ranges which are variable according to the countries.

Press
M
and hold

Press
to move to “BAND SEL”

Press
to select the territory

Press
M
to save the it.

- Korea/US: from 87.5 to 108.0MHz in 100Khz pitch
- EU/China: from 87.5 to 108.0MHz in 50Khz pitch
- Japan: from 76.0 to 108.0MHz in 100Khz pitch

Scanning Frequency

In FM scan mode;

Press to increase or decrease by 0.1MHz

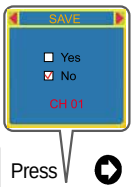
Press and hold to continuously increase or decrease the frequency

- The frequency with the higher receiving rates will be selected.
- The frequency scan step will vary according to the Territory.

'Manual save' of frequency

In FM Scan mode;

Select the frequency you wish to save → Press and hold → to move to "Yes" → Press →



- Up to 20 channels can be saved (1 – 20).

'Auto save' of Channel (frequency)

In FM Search Mode;

→ to save the channels automatically.

Press

Note!

- Push to interrupt the frequency scan.
- The mode will be automatically changed to the 'Preset' mode at the completion of the Scan.

Entering Preset Mode

In FM scan mode;

Press ►II / ⏻ – to enter 'Preset'

Note!

- You can scan the saved frequency by entering the Preset mode.

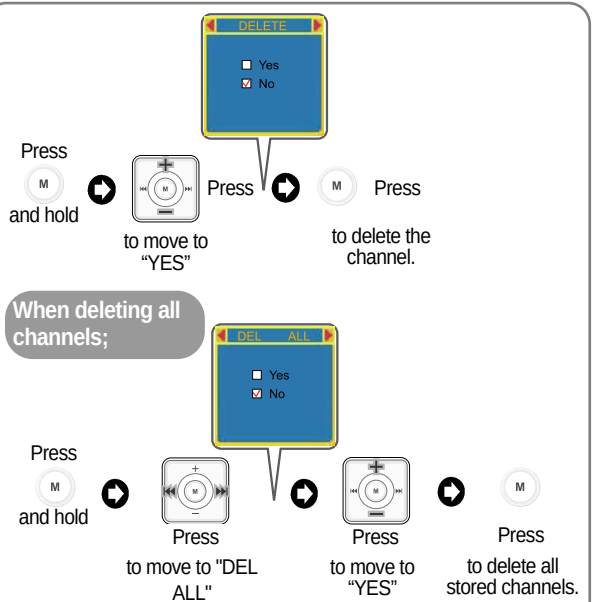
Preset Mode Search

In Preset mode;

Push – to increase/decrease the channel number

Note!

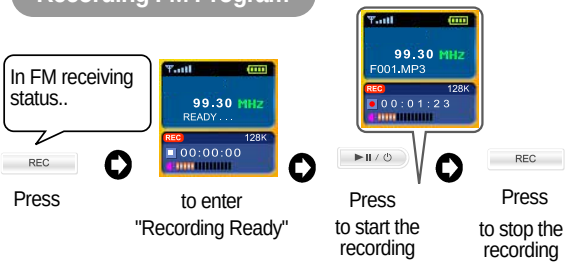
- You can't search the channels if there is no frequency saved.



Note!

- Channel deleting is only available from PRESET mode.

Recording FM Program



Press

to enter "Recording Ready"

Press to start the recording

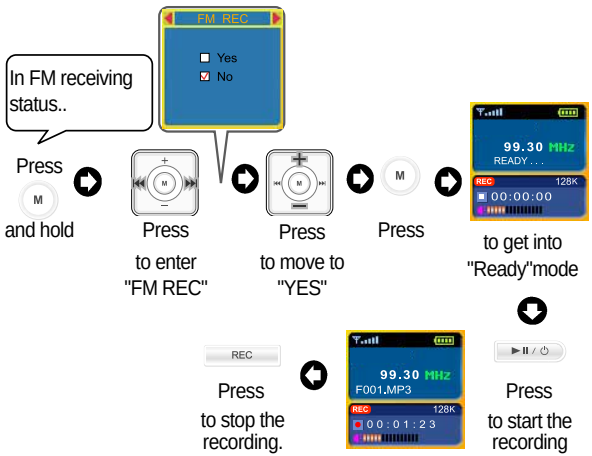
Press to stop the recording

■Press ►II / ⏻ in recording to pause the recording and press ►II / ⏻ again to resume.

■Recorded sound sources are saved in MP3 format in FM folder in the following sequence; F001.MP3, F002.MP3…..

■You can listen to the recorded file by entering “Music Play,” “ENC Player.”

■Alternative way of FM recording;



Press and hold M

Press to enter "FM REC"

Press to move to "YES"

Press M

to get into "Ready"mode

Press ►II / ⏻ to start the recording

Press REC to stop the recording.

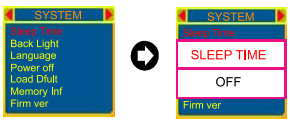
MEMO

System Setting

System Setting 63

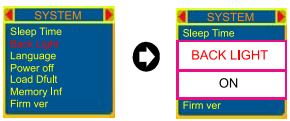
Sleep Time

This function automatically turns off the power of the device after a preset period of time; from OFF to 90min in 10minutes step



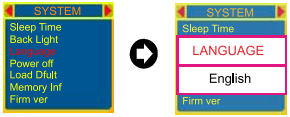
Back Light

You can set the period for background lighting; from 5 to 80seconds in 5 seconds step



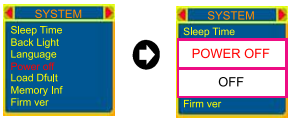
Language

The language for View Text can be selected in the mode.



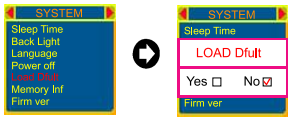
Power Off

This function turns off the device power automatically when there is no button manipulation made for the preset period of time (Off/ from 10 to 60seconds in 10seconds)



Load Dfult

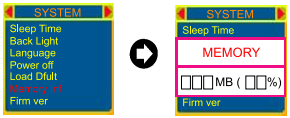
All set values user has set and saved will be initialized



Yes: User set info will be initialized
No: User set info will be saved

Memory Inf

Displays total memory capacity and the percent in use.



Firm ver

Displays currently used firmware version.

All Format

It enables you to delete all files

Programs

System Requirement 67
Driver for Windows 98SE 68
Converter 69
AVI Maker 70
Converting File 71
File Download-Upload 74
Format 77

System Requirement

The minimal system requirements for the PC to support the device are as followings;

- ■Microsoft OS (Windows 98SE, ME, 2000, XP)
- ■CD-Rom Drive
- ■Pentium 200MHz or higher version
- ■RAM 32MB (64MB or more for Windows ME(2000) or higher version)
- ■More than 128Mb free space in the hard disk (additional space is required to save more music files)
- ■USB port (Ver. 1.1)
- ■Mac. 9.X- X

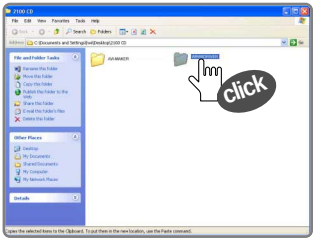
Note!

- ●This Mass Storage type device can upload or download files without installing any extra software.

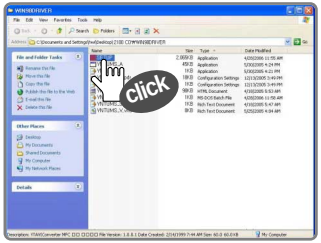
■In case of using Windows 98SE: Please install the program CD supplied with the device before uploading or downloading files. (PC may not recognize the device)

Installation of Windows 98SE Driver

1. Open WIN98DRIVER folder in the CD



2. Double click on SETUP icon in WIN98DRIVER folder and install the driver following the correct sequence.

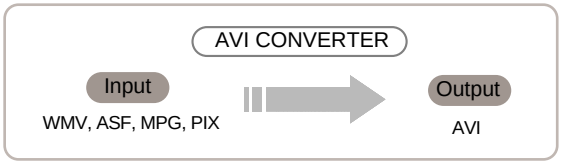


Note!

- ●You must reboot the system at the completion of installation.

What is Converter?

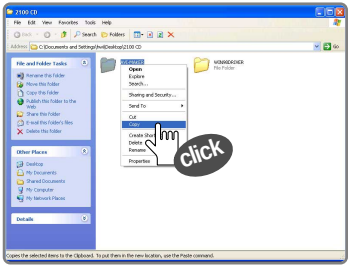
This is a program which enables you to convert other PC based movie formats such as WMV, ASF, MPG or PIX into AVI which is playable in the device.



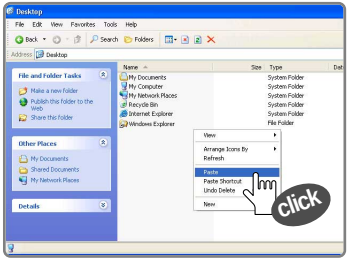
System Requirement

1. H/W
   CPU: Intel Pentium4 1GHz
   HDD: 20MB or more space
2. S/W
   Microsoft Windows 98SE or higher version
   Microsoft DirectX 9.0
   MS Media Player 9.0
   (Recommended Code Pack) C Pack or K-Lite Codec Pack

1. Copy AVI-MAKER folder from the CD using the right mouse button.

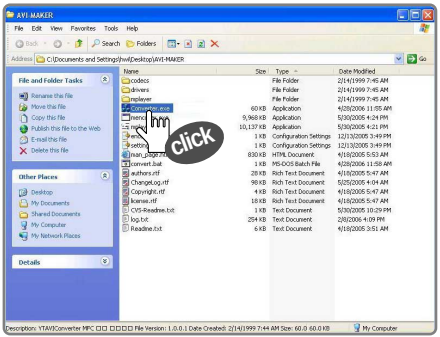


2. Paste the copied folder to where you wish to save in the PC.

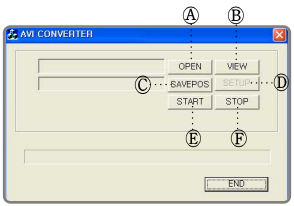


■ Additional installation procedure is not needed – only requiring "copy & paste."

1. Click on "CONVERTER" in AVI-MAKER folder



2. A box shown below will appear.

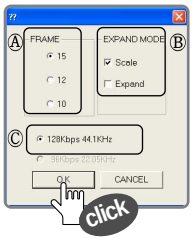


A: Open File
B: Preview
C: Save to
D: Option
E: Start
F: Finish

3. Press OPEN in the box to select the file you want to convert.

4. Set the folder where the converted file will be saved by pressing SAVEPOS Save to)

5. Press SETUP to set the file options



A: Set the number of frames you want to see in a second. More numbers will provide you with quality screen but take more memory space.
B: Scale: You can display images in different scales
Expand: Images with 4:3 and 16:9 ratios will be displayed in 1:1 ratio.
C: Bit-rate (fixed value)

6. Press START to start converting

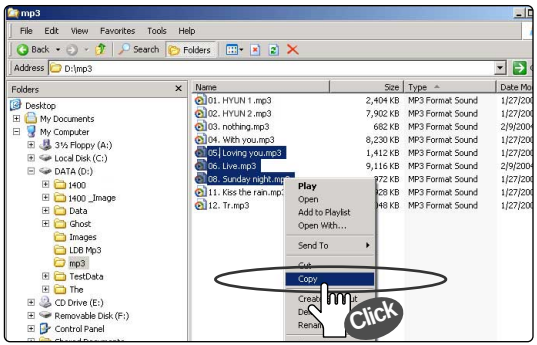
File Conversion Status

7. Press STOP at the completion of the file conversion.

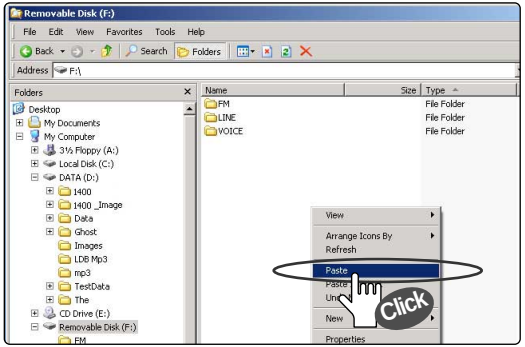
Note!

- This product downloads or uploads all types of data files (∗jpg, ∗xls, ∗hwp…) taking the role as a removable disk as well as a music player.

1. To download files connect the USB cable and click on “Copy” using the right mouse button following the selection of files in PC.



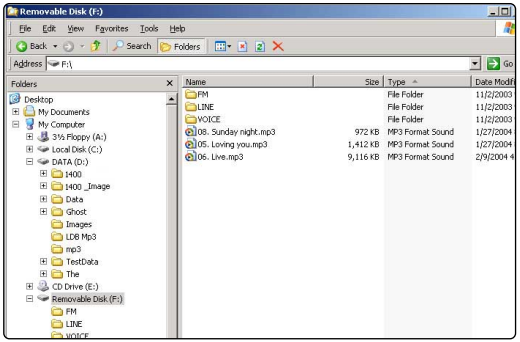
2. Click on “Paste” to paste the copied file into the ‘Removable Disk’ window using the right mouse button.



Note!

- PC recognizes the product as a removable disk newly found in “My Computer.”
- Don’t remove the USB cable while transferring the files. It may cause a fatal error in PC or the product.

3. Downloading the files selected in the PC to the product is completed.



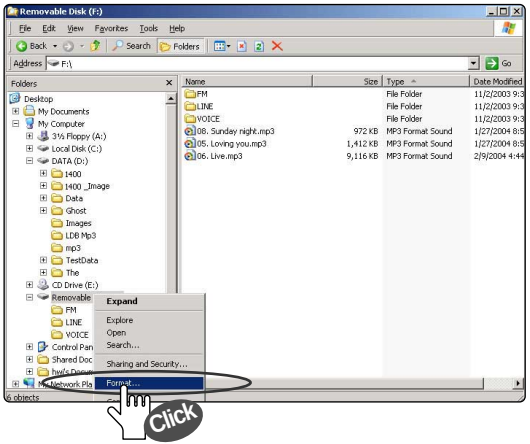
Note!

- You can upload the files from the product to the PC by following the same procedures but in reverse way.
- Drag & Drop makes you easy to download or upload the files.

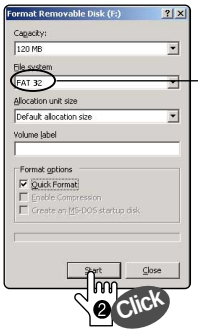
Note!

● The removed files through the format can not be recovered!

1. Choose “format” in the removable disk folder using the right mouse button.



2. Click on ‘Start’ button when a format window pops up.



Check if file system is set for FAT32

Be very careful at formatting!

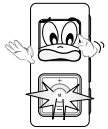
3. Format has been completed!

MEMO

Support

This may not be a trouble! 81
FCC RF INTERFERENCE STATEMENT 83
Warranty Card

1. If you cannot turn the Power on?



- Check battery capacity. Recharge the battery with a USB cable.
- Check if the device is in HOLD.

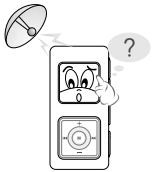
2. If the button is not functioning?

- Check if the device is in HOLD.

3. If you cannot properly hear the sound sources, and there is much noise interference?

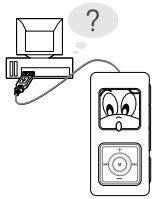
- Check if any foreign material is applied on the earphone tip, If yes, remove it.
- Completely push the earphone tip into the device.
- Check if the file is damaged.
- Check the volume.

4. Too much noise interference with interrupted FM receiving?



- Check if the earphone is completely inserted into the jack. It functions as an antenna.
- Use the device away from peripheral electric devices

5. If there is trouble with file downloading?



- Check the connection of the USB cable.
- Check the availability of the memory capacity.

6. LCD is not activated?

- Check the battery. Recharge it with a USB cable if needed.

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 technician for help.
- Only a shielded interface cable should be used.

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

CAUTION

Changes or modifications not expressly approved by the manufacturer could void the warranty.

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.

Warranty Card

Product Name:

Model:

1 year from the date of purchase

Date of Purchase: (m) (d) (y)

Name of Customer Telephone Number:

Address:

Name of Agent: Telephone Number:

Address:

HW Hyun Won Inc.

●You need to present this Warranty Card with the date of purchase written thereon when required in order to receive satisfactory services. Please keep this card in a secure place.

1. The warranty service for the product shall be provided based on the information contained in this Warranty Card.
2. The warranty service is available effective from the date of purchase, so please put the date of purchase on this Warranty Card. (If the date of purchase is not identified in the card, the effective warranty period will start from the date 6 months from the date of manufacture.)
3. This Warranty Card can not be reissued

The design and size of the product are subject to change without prior notice in order to improve product quality.