## Copyright Notices

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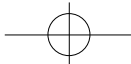
FCC Information

This equipment has been tested and found to comply with 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 radiates 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 unacceptable 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.

    1. Reorient or relocate the receiving antenna.
    2. Increase the separation between the equipment and receiver.
    3. Connect the equipment into an outlet on a circuit different
       from that to which the receiver is connected.
    4. Consult the dealer or an experienced Radio / TV technician
       for help

 CAUTION

 Changes or modifications not expressly approved by the manufacturer responsible for compliance could void the user's authority to operate the equipment.

Certificated Of Conformity

    1. Company : **AMAC TEK CO., LTD**
                  3rd Floor, Seyo Bldg, 161-8, Samsung-Dong,
                  Kangnam-Gu, Seoul Korea 135-881
    2. Model Name : HAN-500
    3. FCC Compliance Statement:
      This device complies with part 15 of 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.

    4. CE Rules : Product with the CE Marking comply with both the
      EMC Directive (89/336/EEC) and the amendments (91/263/EEC)
      issued by the Commission of the European community.
      Compliance with these directives implies conformity to the following Europan Norms:

     - EN55022:1998+A1:2000+A2:2003 --- Information Technology
                                    Equipment - Radio disturbance
     - EN55024:1998+A1:2001+A2:2003 --- Information Technology Equipment -
                                   Immunity
     - EN55013:2001 --- Sound and television broadcast
                      receivers and equipment - Radio disturbance

Content

Caution

Please be sure to read the following a because these may be the cause of trouble.
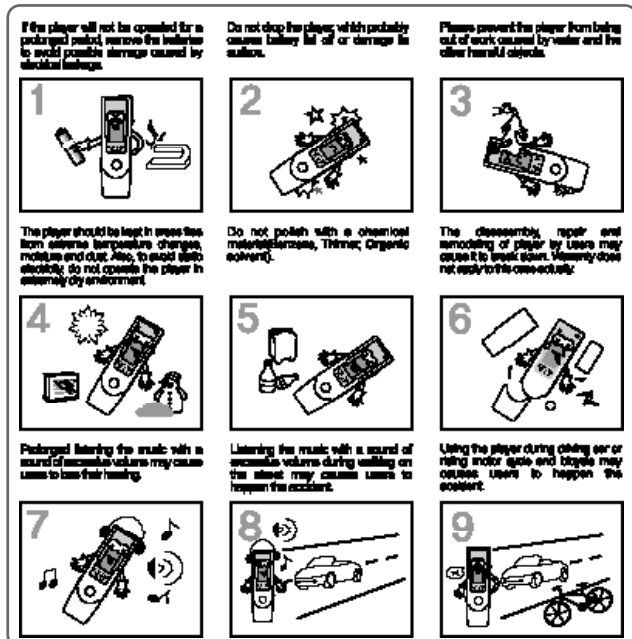
The contents in this manual may change without any notice in advance due to functional improvement of the product or change of specification.

Required System Specification

PC Hardware
- 20MB Hard Disk Space or higher
- CD-ROM Driver
- PC for USB Port supported

PC Software
- Windows98SE/ME/2000/XP
- CD-ROM Driver
- PC for USB Port supported

Features

1. Portable Disk Function with P&P(Plug and Play) type
 - Additional Hard Disk Drive is appeared on your PC.
 - It consists of directory structure and users can create the folder to save, copy, playback, and delete the desired music.

2. SD/MMC Card Support
 - The player supports SD/MMC Card slot so that it can be used for music file as a store.

3. Encoding Function

  - Users can record not only voice but FM Radio at the real time and the desired MP3 files can be made to directly connect to other audio devices such as CD Player, Cassette Tape Recorder and so on.

4. FM Radio Function

  Users can listen to FM Radio to use preset frequency function by Auto Scan and the preset frequencies are saved automatically.

5. Strong Browser

  You may browse desired information more easily by using the Navigation Key in the front.

  This player also supports file management function including deleting files and folders. In this manner, convenience is provided to users.

6. Firmware Upgrade

  Convenient firmware upgrading environment is provided to customers for constant improvement of the product function. refer to AMAC website "www.amac.com" please.

7. Support of the Words of Songs

  Through a "mediaSyns Player" program and a "mediaSync Editor" program, which are supported in this player, you may search and download words of songs by connecting to the Words of Songs File Server. Also, you may synchronize the words of sons and text data with the MP3 files such as music or language learming. Edit function to correct, delete and save files is also available.
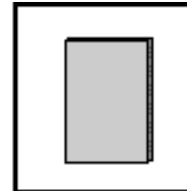
8. High Quality Sound Effect (SRS)

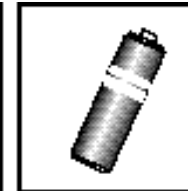 This is to enhance original sound quality to magnificent high quality sound.
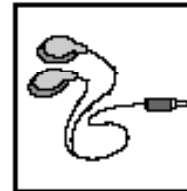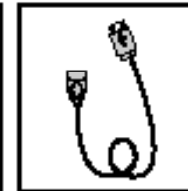
Enclosures
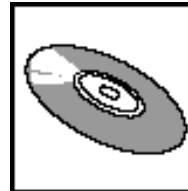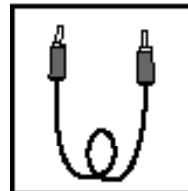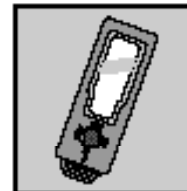

INSTALLATION CD   USER'S MANUAL   BATTERY

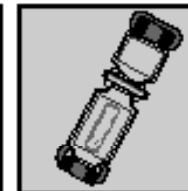NECK STRAP   EARPHONE   USB CABLE
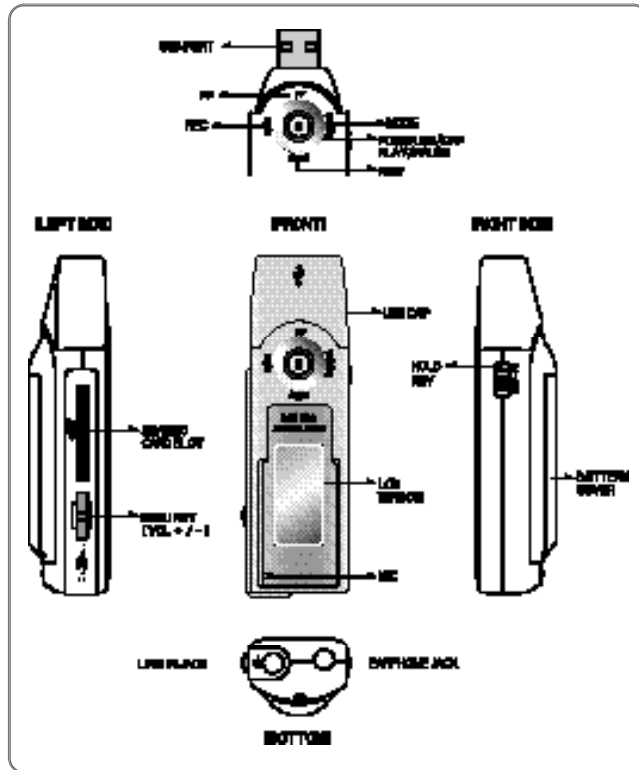
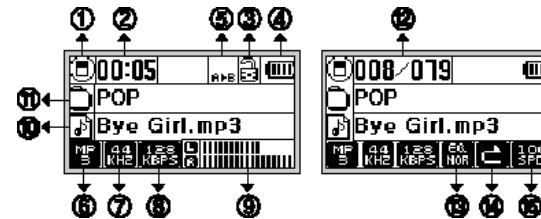AUDIO CABLE   CARRYING CASE(Option)   SPORT ARM BAND(Option)

Play Overview

LCD Display

Current file's location information
Playback time of the current track
HOLD ON/OFF setting
Remaining battery capacity
Range repeat
Compression file format of the current track(MP2/MP3/WMA)
Sampling Frequency of the current track
Bitrate of the current track
Level spectrum of played back sound
 File name of the current track
 Folder name of the current track
Current file's track number (8th track song/music of a total of 79 files)
EQ (Equalizer) setting (Normal, Rock, Jazz, Classic, Pop, User EQ,
SRS ON)
REPEAT (Repeat mode) setting (A playback, a repeated playback,
playback within directory, repeated playback within directory, all
songs playback, repeated playback of the all songs)
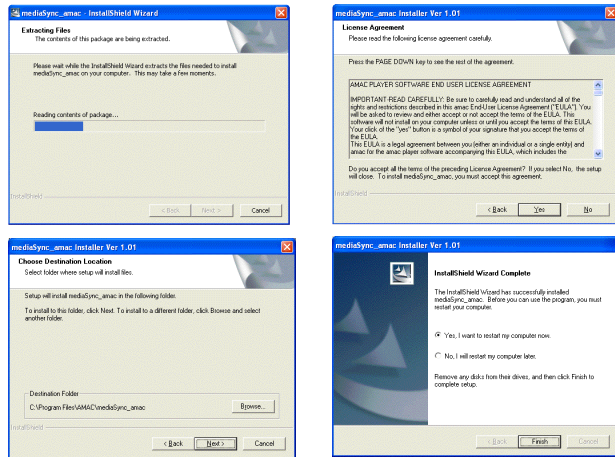SPEED (Playback speed) setting (50~200%)

To setup Program

Insert the installation CD, and the following pictures are appeared.
(If it is not run automatically, please click on "mediaSync_amac.exe" file in
CD-ROM for the manual installation.)

    You need to reboot your PC after installation.

When the installation is completed, the "mediaSync Player" icon and the
"mediaSync Editor" icon are created on the screen of your PC.
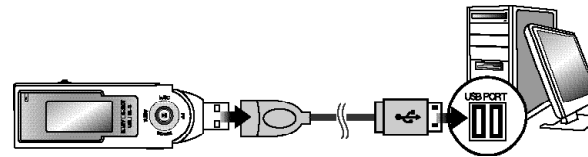
To connect to PC

There are two methods to connect with PC as follows:

1. Direct Connection
   Open the cap of the player and connect USB port to your PC.

2. Connection through the USB Cable
  Use the USB cable provided if the USB port is positioned at the uncomfort-
able place.

When the player is connected to PC, two removable disk drives are
appeared in [My Computer].
The first removable disk drive is for the internal Flash Memory in
the player, and the second one is for SD Card. This can be used only
when SD Card is inserted. If the player is connected to PC, [USB
Connect] is displayed on the LCD.

USB Connect!!   Don't Remove USB

<Notice>

To open the USB Cap, lean it downward direction and pull it
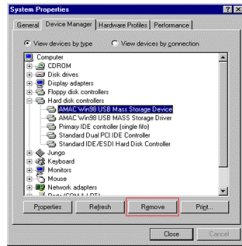as below pictures.

Down

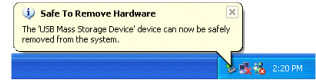   Pull

To disconnect from PC

To disconnect player from PC, the following should be carried out depending on the Windows Operating System (OS).

To disconnect from Windows 98SE / ME

Please click on [START] Button of Windows and select [CONTROL PANEL]　[SYSTEM]　[DEVICE MANAGEMENT] Disconnect USB Cable from PC after removing [AMAC Win98SE/ME USB Mass Storage Driver].

Then, remove the player from PC after click [OK] Button.

To disconnect from Windows 2000/XP

Please double click the icon "Safely Remove Hardware" at the bottom of right side as bellow.

Select USB Device and push on [STOP] Button.
Disconnect the player after click on [OK] Buttton.

<Caution>

1. If you remove player from your PC without executing "Safe Hardware Removing," it may cause the player to be out of order.
2. When you remove player from your PC while moving data, the data in the player will be damaged.
   If the player is malfunctioned due to improper disconnection, please format the memory to return to normal condition. (Please refer to page 31 [FORMAT] Setting.)

To File Download/Upload

With regard to File Download, when you executed the Windows Explorer, after connecting this product with your PC,
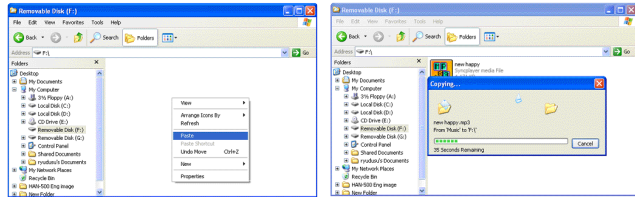
Select a file saved on the hard disk of your PC and choose "Copy" by pressing the right button on your mouse.
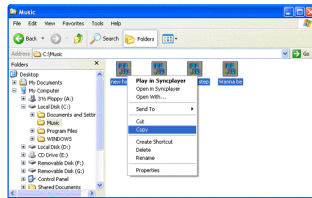
After moving to the desired location within the mobile disk, select "Paste" by pressing the right button on the mouse.

Users can create the desired folders for user's convenience.

(i.e : Music, Pictures, Business, and so on)
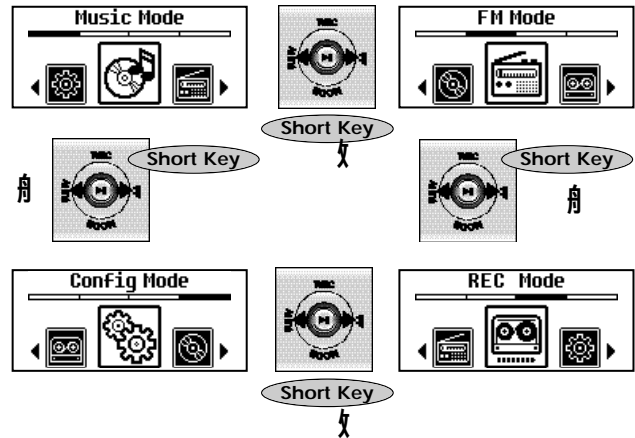
Uploading is on the contrary of downloading.

To change to MODE

To change to MODE

When you push the Navigation Key(||) to the '"MODE" direction long, you may select by pressing in the direction of "FF" or "REW"

after entering into the MODE Conversion as in the following figure. After selecting MODE, if you push the Navigation Key(||), it will be converted to the concerned MODE.
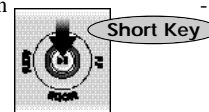

- Music Mode : To play MP3 and WMA files
- FM Mode : To FM Radio and Recording Mode
- REC Mode : To Line-in Recoding and Voice Recording Mode
- Config Mode : To set various things and manage files for user's convenience
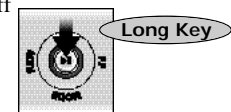
To Play Music files (MP3 & WMA)

Power On/Off

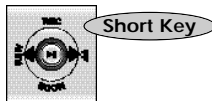- Power On   - Power Off

- Auto Power Off : If stop state is maintained for the time set in the
[POWER OFF TIME] in the [Config Mode],
power is off automatically.
The factory set is for 2 minutes. (See page 34
[POWER OFF TIME].)

To Play / Pause

- Play / Pause

Song/Music Selection and Search

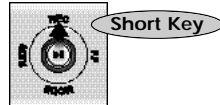- Song/Music selection and finding while stopped and played back.

- Fast search within the Song/Music while played back.

Range Repeat Setting/Release

Repeat below action push the Navigation Key(‖) to "REC" direc-
tion.

- Starting Point Setting of the Range   End Point Setting of the
Range Repeat   Release to Range

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Key Lock / Release

- This is to prevent the player from the malfunction of buttons in the
complicated place.
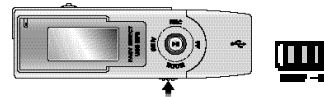
Sound Volume Controlling (Volume Level : 0~40)

User EQ Setting

Push the Navigation Key(‖) to the direction of "REC" long
while a song/music is played back.
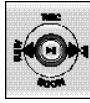
Movement between frequency bands: Push the Navigation Key
(‖) to the direction of "FF" or "REW''.

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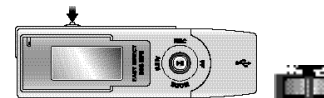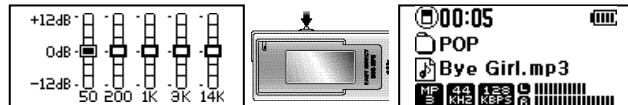dB Value setting : Push the Navigation Key(‖) to the direc-
tion of "+" or "-". (-12dB ~ 12dB)

Return : Press the Menu Key. (If there is no movement for 5 sec,
it will be returned automatically.)

```
00:05          (iiii)
POP
Bye Girl.mp3
MP 44 128
3 KH2 KBPS
```

The User EQ may only be set, while a song/music is played back
in the [Music Mode].

How to use SD (Secure Digital) Card

Usage of SD Card

The SD Card may be used for memory capacity extension.
- You may enjoy music by saving music files (MP3 or WMA) in
the SD Card.
- When the internal memory capacity lacks while recording,
recording continues, since it is converted to SD Card automati-
cally. (FM Recording, Voice Recording, Line-In Recording)
The SD Card may be used as a simple data moving medium.
- It is convenient to use the SD Card when you intend to move
data to another PC.

How to use SD Card

When you insert the SD Card, you need to insert the back side of
the SD Card to be shown as in the following figure.
(Please be careful that the SD Card may be damaged, as well as
it does not work, if you insert it in an opposite way.)
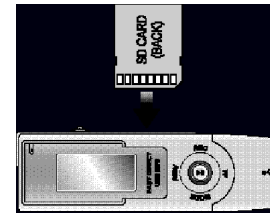
When the SD Card is inserted or deleted to the player, the follow-
ing screen is displayed in the LCD.

[SD Card inserted]　　　　[SD Card deleted]

Conversion of Memory by using SD Card (Internal Memory
SD Card)

When you push the Navigation Key(‖) to "FF" or "REW" direc-
tion in the [Music Mode], it is converted to the SD Card or the
Internal Memory following the last file in the Root of the Internal
Memory or the SD Card.

EQ/REPEAT/SPEED Setting

How to set function

- EQ/REPEAT/SPEED Selection

  Whenever you briefly push Navigation Key(||) to the direction
  of "MODE" from the [Music Mode], it will be converted in the fol-
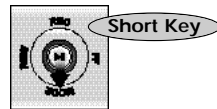 lowing order: EQ   REPEAT   SPEED (The icon for the func-
  tion under setting flickers.)

  Short Key

- If you want to decide detailed values, turn the Menu key to the "+/-"

  direction as follows:

  EQ/REPEAT/SPEED setting is only possible in the [Music
  Mode].
  When there is no manipulation for 3 seconds in this process, the
  player is automatically returned to the previous state.

  EQ: Various types of Equalizers are provided suitable to user's
      tastes when playing a file.
      NOR(Normal), ROC(Rock), JAZ(Jazz), CLA(Classic), POP(Pop),
      USE(User EQ), SRS ON.
      This SRS decides whether to apply SRS WOW and TruBass in
      the [Config Mode]. (As to detailed SRS, see Page 35 [SRS:
      WOW] Setting and [SRS:TRUBASS] Setting.)

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REPEAT : Setting to Repeat mode at file play.
- One Normal( ): After a song/music is played back, operation
                 stops.
- One Repeat( ): Plays back a song/music repeatedly.
- One Folder( ): When all the songs/music in the concerned
                 folder have been played back, operation stops.
- One Folder Repeat( ): Plays back all the songs/music in the
                        concerned folder.
- All Normal( ): Operation stops after all the songs/musics
                 have been played back in the memory.
- All Repeat( ): Plays back all the songs/music in the memory
                 repeatedly.
  SPEED : This is useful for language learning because the play
          speed may be controlled when a file plays.
          (50~200%, Normal : Based on 100%)

How to use Browser

Entering into Browser and Exit from Browser

When you press the Menu Key briefly in the [Music Mode], it is
converted to a browser function.

Short Key   **Short Key**

Searching in the Browser Function

- Searching in the Same Depth

18

POP
Bye Girl.mp3
BeGine.mp3
voice

POP
Bye Girl.mp3
BeGine.mp3
voice

- Moving to Lower Directory

ROOT
POP
BeGine.mp3
Bye Girl.mp3

Short Key

POP
Bye Girl.mp3
BeGine.mp3
voice
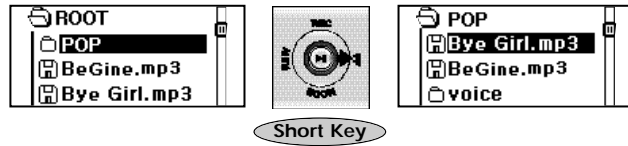
- Moving to Upper Directory

POP
Bye Girl.mp3
BeGine.mp3
voice

Short Key

ROOT
POP
BeGine.mp3
Bye Girl.mp3
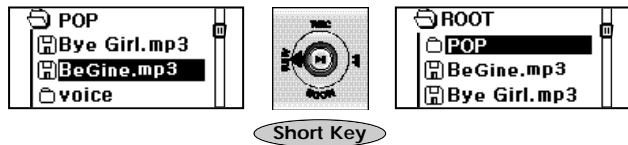
Play Back in the Browser Function

POP
Bye Girl.mp3
BeGine.mp3
voice

Short Key

008/079
POP
Bye Girl.mp3
MP3 44 KHz 128 KBPS EQ NOR 100 SPD
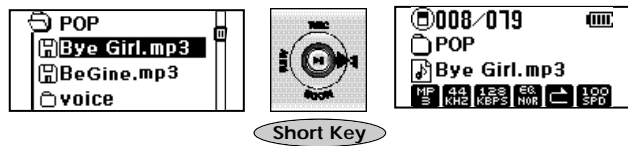
Delete File/Folder in the Browser Function

- After selecting the file to be deleted and run to the detail Setting
  window (Pop-Up Window).

POP
Bye Girl.mp3
BeGine.mp3
voice

POP
Bye Girl.mp3
BeGine.mp3
voice

Short Key

FILE DELETE
YES   NO

- Select [Delete].

FILE DELETE
YES   NO

Short Key

FILE DELETE
YES   NO

- Go to [Delete].

FILE DELETE
YES   NO
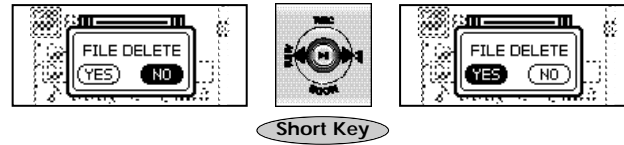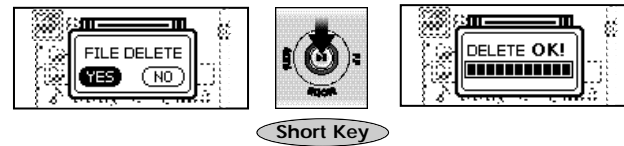
Short Key

DELETE OK!

When you choose folder, the folder will be deleted.
If the folder is not empty, the folder will be not deleted.

ROOT
POP
BeGine.mp3
Body Girl.mp3

Short Key

DIR DELETE
YES   NO
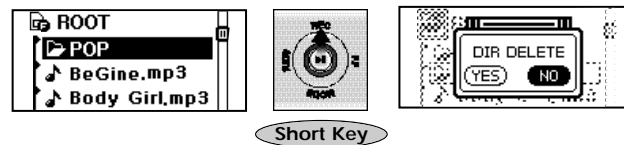
To listen to FM Radio

FM Radio Mode

- Go to MODE Choice. (See Page 11 [To change to MODE].)
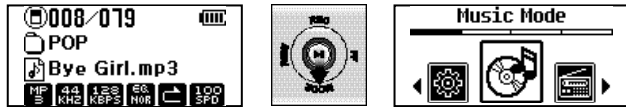
Long Key

- Convert to [FM Mode].
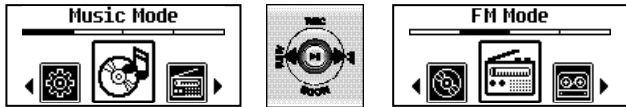
Short Key

- Go to [FM Mode].
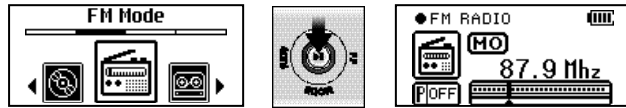
Short Key

PRESET/Non-PRESET mode Setting

The PRESET mode is a mode in which the frequency saved in CH may be moved in the unit of CH, when a random frequency has been saved in the CH. The Non-PRESET mode is the mode in which the random frequency may be moved in the unit of frequency.

The PRESET/Non-PRESET mode is converted whenever the Menu Key is pressed briefly.
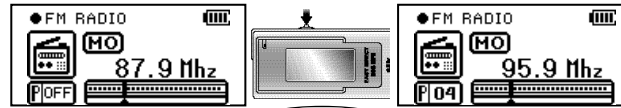
Short Key

Frequency Search

• Searching the frequency unit in the Non-PRESET mode.
  - Searching frequency step unit: Move each step in the unit of 0.1MHz.
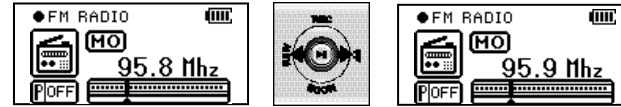
Short Key

  - Searching effective frequency unit: Search continuously until the effective frequency is searched.

Long Key

• Searching channel (CH) unit in the PRESET mode.

Short Key

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Manual Save of Frequency

Convert to the PRESET mode.

Short Key
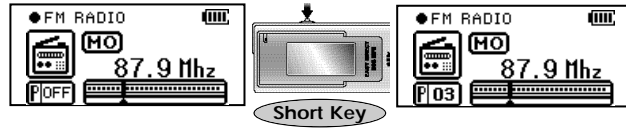
Enter into PRESET save mode.

When you enter into the PRESET save mode. CH number fickers at this time.

Short Key
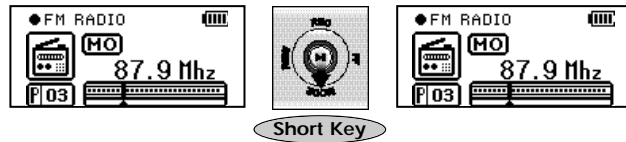
Select CH to save Frequency.(In doing so, CH number flickers.)

Short Key
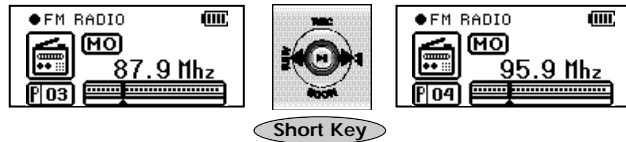
Frequency Conversion. (In doing so, freguency number flickers.)

Short Key
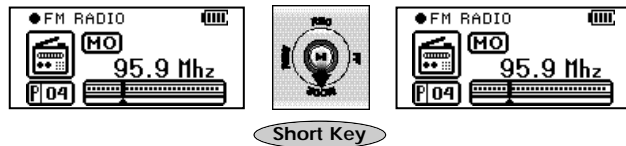
Select frequency to save. (In doing so, freguency number flickers)

Short Key

Frequency Save.

Short Key
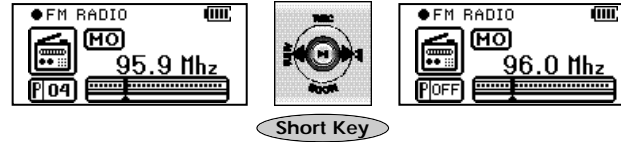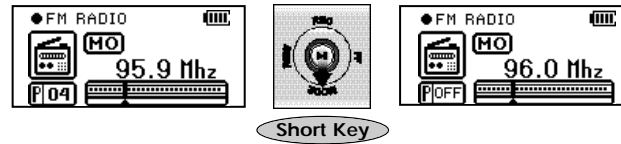
Automatic Frequency Save (Auto-Scan).

Long Key
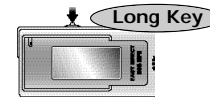
Cancellation of Automatic Preset Save: When you push the Navigation Key(||) briefly, when conducting automatic save, the existing CH information is all deleted, while only CH that has been automatically saved so far is saved.

Since an earphone functions as an antenna, you should plug in your earphone when using FM.

FM Recording

This product may record the broadcasting that you are listening, while you listen to FM.

Start/Stop to FM Recording

[FM Stare]   **Short Key**   [Recording]   **Short Key**   [Recording Stop]

Pause to FM Recording.

(In doing so, time display " -- : -- : --" flickers.)

[Recording]   **Short Key**   [Recording Pause]   **Short Key**   [Recording]

The recorded file is automatically created/saved in the "RADIO" folder.

When recording, the recording is carried out through application of the already set [REC SETTING].

You may play the recorded file after converting it to the [Music Mode].

See [REC SETTING] in the [Config Mode] Setting for Recorded File Format.

Voice Recording

If you enter the [REC Mode], you need to set the [Line REC]/[Voice REC] to [Voice REC].

Select to [Voice REC].

Short Key   **Short Key**

Start/Stop to Voice Recording.

[Init State]   **Short Key**   [Recording]   **Short Key**   [Recording Stop]

Pause to Voice Recording.

(In doing so, time display " -- : -- : --" flickers.)

[Recording]   **Short Key**   [Recording Pause]   **Short Key**   [Recording Stop]

Listening to the Recorded File.

- In doing so, you may playback the immediately previously recorded file, because the MODE turns to the [Music Mode] temporarily.

Short Key
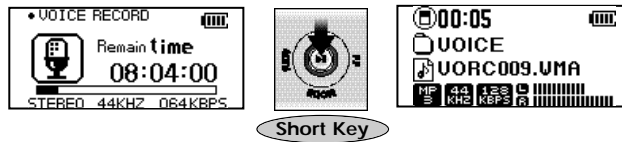
Returning to the previous [REC Mode] again.

Short Key
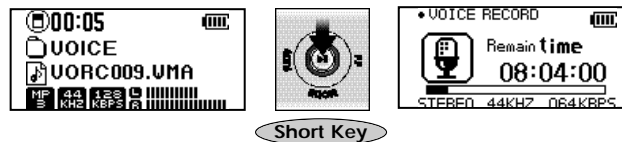
The recorded file is automatically created/saved in the "VOICE" folder.

When the battery was completely discharged or the memory space is not sufficient, the current recording is saved in a file, while a warning message appears.

When you carrying out recording, the already set Recording Format is applied; therefore, you always need to set the Recording Format before recording. (See Page 30 [REC SETTING].)

Line-In Recording

If you enter the [REC Mode], you need to set the [Line REC]/[Voice REC] to [Line REC].

Voice REC | Line REC | READY RECORD Remain time 08:04:00 STEREO 44KHZ 064KBPS

Short Key   Short Key

Connecting to Other Audio Device

Connect the Line-In cable to the output port (earphone port of external equipment) and the Line-In port of this product.
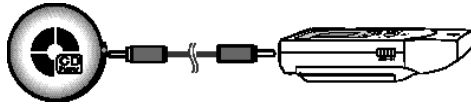
Line-In Recording

Start/Stop to Line-In Recording.

[Init State]   Short Key   [Recording]   Short Key   [Recording Stop]

Pause to Line-In Recording.
(In doing so, time display " -- : -- : --" flickers.)

[Recording]   Short Key   [Recording Pause]   Short Key   [Recording]

Listening to Recorded file.

- In doing so, you may playback the immediately previously recorded file because the MODE turns to the [Music Mode] temporarily.

Short Key
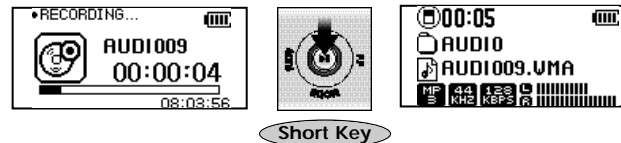
Return to previous [REC Mode] again.

Short Key
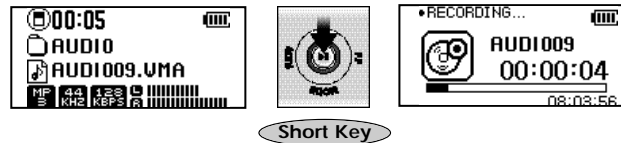
You may check if recording is performed, while listening to the output of outside equipment through earphone during the recording.
The recorded file is automatically created/saved in the "AUDIO" folder.
When the battery was completely discharged or the memory space is not sufficient, the current recording is saved in a file, while a warning message appears.
When you carrying out recording, the already set Recording Format is applied; therefore, you always need to set the Recording Format before recording. (See Page 30 [REC SETTING].)

. [Config Mode] Setting   . [Config Mode] Setting

Entering into the [Config Mode]
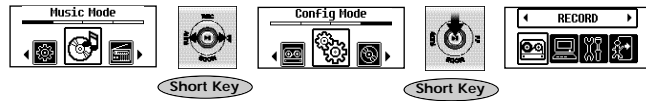
Configuration

The [Config Mode] is configured as follows:

[RECORD] Setting
- [REC SETTING]

[FORMAT] Setting
- FLASH MEMORY QUICK FORMATTING
- FLASH MEMORY NORMAL FORMATTING
- SD/MMC CARD FORMATTING

[CONTROL] Setting
- [FM BAND] Setting
- [EL TIME] Setting
- [POWER OFF TIME] Setting
- [SRS : WOW] Setting
- [SRS : TRUBASS] Setting
- [MEDIA SYNC] Setting

[EXIT] from [Config Mode]
- Firmware Version Information display
- Remain Memory Capacity display

How to Manipulate Key

How to manipulate the Key to set the [Config Mode] is as follows:

1) Movement between the Main Menu.

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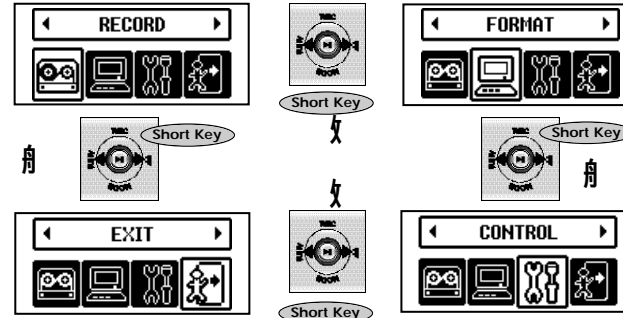
2) Selection.   3) Movement between the Sub Items.

[RECORD] Setting

Select the [RECORD] Setting ( ) icon.
(See page 30 [Movement between the Main Menu].)

- Choice a Sampling Frequency, Bitrate.

[Sampling Freq]	[Bitrate]	[Sampling Freq]	[Bitrate]
44 KHz	32 Kbps	44 KHz	80 Kbps
32 KHz	48 Kbps	44 KHz	96Kbps
44 KHz	64 Kbps	44 KHz	128Kbps

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[FORMAT] Setting

Select the "FORMAT" ( ) icon.
(See page 30 [Movement between the Main Menu].)

Short Key

There are " FORMAT NORMAL" and "FORMAT QUICK" in the Internal Memory and there is 'CARD FORMAT' in the SD/MMC card.

Select item to be formatting.

Short Key   **Short Key**

Decide the status of the Format.

Conduct the Format.
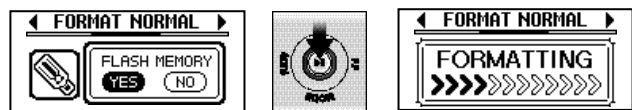
Short Key

The Formatting is complete.
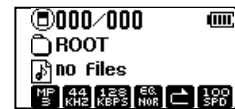
If The SD/MMC CARD is not inserted, the "CARD FORMAT" is not activated; therefore, the SD/MMC Card Format cannot be executed.

Normal Formatting [Low Formatting]

The Normal Format is the function deleting the entire data in the Memory and initializing the Memory by configuring the Track and Sector of Memory. When formatting the Internal Memory, this function is supported.

Cases when Normal Formatting is required:

1. When the file downloading speed is far slower than before.
2. When the file of folder information display breaks or some trouble exists in the sound played.
3. When the deleted file or folder information is still displayed.

Quick Formatting

The Memory initializing formatting is conducted, and both Internal Memory and SD Card support this function.

[CONTROL] Setting

Select the [CONTROL] ( ) icon.
(See page 30[Movement between the Main Menu].)

- FM BAND Setting
- EL TIME Setting
- POWER OFF TIME Setting
- SRS WOW Setting
- SRS TRUBASS Setting
- MEDIA SYNC Setting

[FM BAND] Setting

Users may set the FM Band randomly in order to listen to FM broadcasting anywhere in the world in good quality, and three FM Bands are provided. (US BAND, JAPAN BAND and EUROPE BAND)
(The factory set is US BAND.)

    Choice a [FM BAND] in the [CONTROL].

Short Key
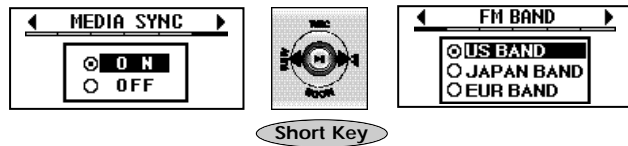
Choice a BAND to Setting.

[EL TIME] Setting

This is the function to set the time for the EL Backlight on (Factory set is 4 seconds.)

    Choice a [EL TIME].

Short Key
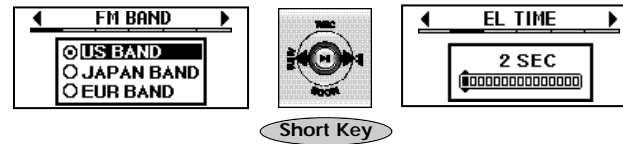
Choice a time to setting (0~ 60 seconds).
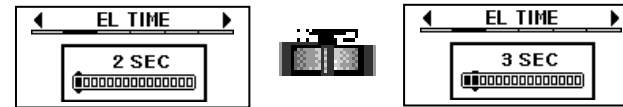
[POWER OFF TIME] Setting

This product's power is off automatically when a certain time elapses without any movement in the stop state. In this manner, the power consumption is minimized. (Factory set time is 60 seconds.)

    Choice a [POWER OFF TIME] in the [CONTROL].

Short Key
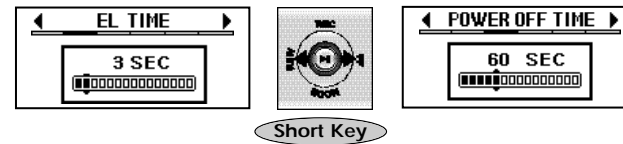
Choice a time to setting (15~ 300 seconds).
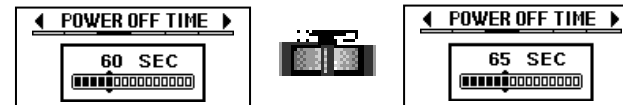
What is SRS?

This is the function to make the basic sound quality of a file more abundant and magnificent.

WOW

This function enables you to feel deep taste of music with added bass and dynamic scope.

TRUBASS

This function is to provide an effect of a bigger speaker through improvement of bass and low frequency.

[SRS : WOW] Setting

Choice a [SRS:WOW] in the [CONTROL].

Short Key
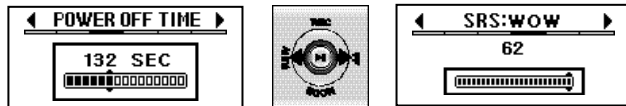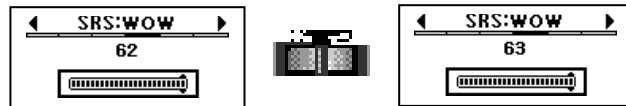
Choice a level (0~ 63).

The factory set is '63".

[SRS:TRUBASS] Setting

Choice a [SRS:TRUBASS] in the [CONTROL].

Short Key
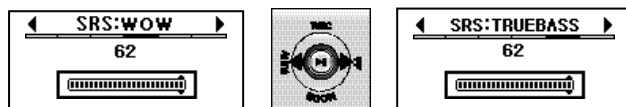
Choice a level (0~ 63).
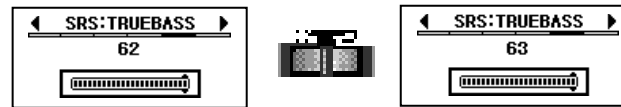
The factory set is "63".

[MEDIA SYNC] Setting

The [MEDIA SYNC] is a setting to decide whether or not the words of a song should be displayed, when the words of a music file have been edited. (The factory set is "OFF".)

Choice a [MEDIA SYNC] in the [CONTROL].

Short Key
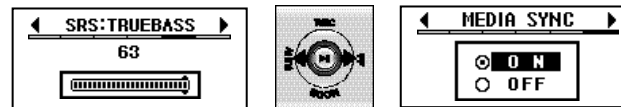
Choice an "ON"/"OFF".
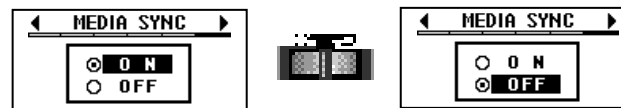
[EXIT] from [Config Mode]

Select the [EXIT] ( ) icon.
(See page 30 [Movement between the Main Menu].)
Display to Firmware information, remain battery capacity, and exit from [Config Mode].

This product provides two utility programs.

mediaSync Player

- Possible to be used as the MP3 Player program for general PC
  See the "Help" in the program as to "How to Use" in detail.

mediaSync Editor

- Editing and correcting of the words of songs possible, and the
  words of songs information can be saved on the MP3 file.
  Please see the "Help" in the program as to "How to Use" in detail.

Firmware Upgrade

Start the Program by double clicking the "mediaSync Player" created
on the screen of your PC.

1. Firmware Downloading
- If you want the up to date Firmware, please download the zipped
  Firmware that has been publicly notified on AMAC website
  www.amac21.com.
- Unzip the Firmware downloaded from our homepage.

2. Firmware Upgrading
   Firmware Upgrading through the "mediaSync Player" program.
  -Connect the HAN-500 Player to your PC with push to "REC" direction.
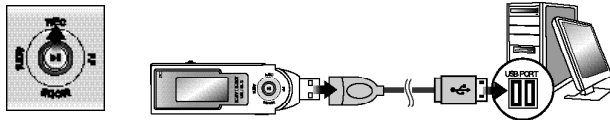
- Execute the "mediaSync Player" program.

Figure [3-1]   Figure [3-2]

- Select the [Firmware Upgrade] in the Menu as in [Figure 3-1] , or
  click the [Config] Button in [Figure 3-2] .
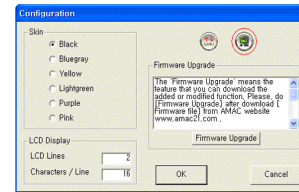
Figure [3-3]

- Click the[Firmware Upgrade] Button in [Figure 3-3].
   Manually install the Driver when the [Firmware Upgrade]
   Button was not activated. (See Page 40[Manually install the
   Driver].)
   When the connection with PC was not properly done, mobile
   saving device may be attached. In this case, please conduct the
   procedure again from No. 1.

- After setting up the path of the Firmware file (HAN-500.rom)
   that has been unzipped from the window of "Open firmware
   upgrade file" as in [Figure 3-4] , the upgrading is carried out as in

[Figure 3-5] , if you click the "Open" Button.

When the Firmware Upgrading ends, the Progress Bar disappears automatically.

Figure [3-4]
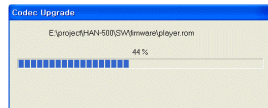
Figure [3-5]

- When the Upgrading is complete, disconnect the HAN-500 Player from your PC, after clicking "OK" Button.

Firmware Upgrading through Copy

- Connect the HAN-500 Player to your PC.
- Copy the unzipped Firmware file (HAN-500.rom) in the internal memory Root of the HAN-500 Player.
  (When you copy the Firmware file in a random folder, not in the Root, you cannot conduct Firmware upgrading.)
-When the copy is complete, remove the HAN-500 Player from your PC.
  (When you remove the HAN-500 Player from your PC, you should always follow the normal procedures. See Page 9 [To disconnect fromPC].)
-When you turn on the HAN-500 Player, it will automatically search Firmware file. If the Firmware file exists, the Firmware upgrading will be progressed automatically. If the Firmware file exists, the Firmware upgrading will be progressed automatically.
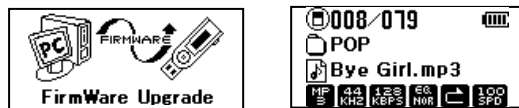
Figure [3-6]

Driver Reinstallation

Delete the existing Driver for driver reinstallation

When USB driver is not properly installed after the player is connected to PC, please follow as below.

Information related to USB Driver installation (For only Window 98SE / ME users) When the message on PC shows that the Driver can not be opened after the player is connected to PC. Please follow as below.

If the player is properly connected to PC, click on [START] of Windows, and select [CONTROL PANEL]   [SYSTEM] [DEVICE MANAGER] in sequence.

Double click on [Universal Serial Bus Controller], and check whether or not the [AMAC Win98SE/ME USB Mass Storage Driver] exists.

Select and delete [AMAC Win98SE/ME USB Mass Storage Driver], the USB Driver of other devices if they are marked with a question mark (?) or an exclamation mark (!), or [Unknown Device].

Pull out only the USB cable from the player, but leave alone the USB cable connected to the USB port on PC. Then, reboot the PC.

Connect the USB cable to the player after rebooting, and the USB driver is automatically detected.

Please make sure to visit AMAC website www.amac21.com for your detailed infotmation.

Manually install the Driver

When same problem happens, please install CD to set up USB Driver manually as follows:

1. Warning message is appeared as Figure [4-1] when USB Driver isn't set up in Windows 98SE / ME.

Figure [4-1] An Error in recognizing USB Driver

2. Then, click on [OK] Button, and follow as below procedures:

Figure [4-2] Installing USB Driver by manual
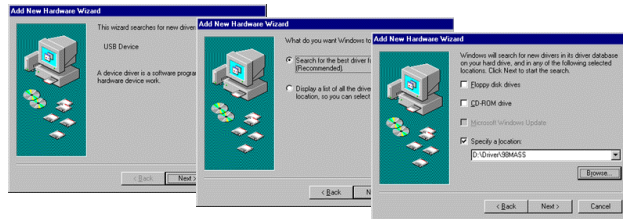
Figure [4-3] Setting up place to install USB Driver
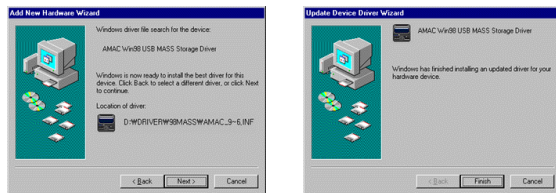
Figure [4-4] Completing to install USB Driver by manual

Check List in Case of Trouble

When there is some trouble in the HAN-500 Player, please check the following first:

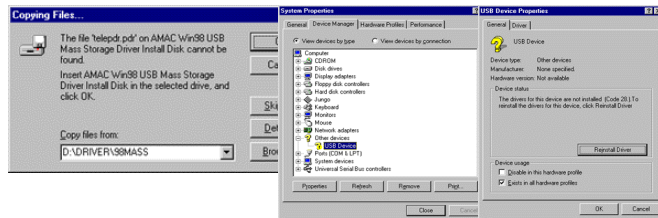|	
No Power On	• Please check whether it is out of battery or not. • Is the "HOLD" switch on?(If it is on, switch it off)
No Sound or Noise Heard	• Check if your earphone is plugged in well, or if there is alien material in the terminal. • Noise or interrupted sound phenomenon can be happened in case of playing damaged data. Please check another file.
FM Reception Bad or Noise Heard	• Check if earphone is plugged in well or not. • Check if there are electric devices around the player. If so, move them far away and then operate this product.
File Downloading Not Working or Driver not Recognized.	• Check the connection between PC and the player. • Check if the driver has been properly recognized. (If the driver is not recognized, reinstall the driver using the following " Driver Reinstallation")
Nothing Works, since Firmware Upgrading was Suspended, due to Some Problem.	• Try to upgrade the Firmware referring to " Firmware Upgrading (See Page 37)." If you try to upgrade firmware when PC is power-off or during removing player from PC, the Firmware Upgrading was not being executed properly.
The file/folder name does not appear and the words of the concerned song are not displayed.	• If the Font file has been damaged, such phenomena may take place. In this case, you need to download the Font file again after format. (See Page 45 [Font Download].)

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< In the following cases, conduct the Normal Formatting.>

1. When the download speed became remarkably slow, compared with when you purchased this product.
2. When music is played back, sound is broken or the file and folder names are broken.
3. When you conducted formatting, the Formatting was not done.

< Countermeasures when the Following Warning Popup Messages are Displayed>
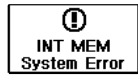
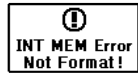| ⊕ INT MEM System Error | A problem was caused in the Internal Memory. Conduct the Internal memory. Normal Formatting. (See Page 31 [FORMAT] Setting.) |

| ⊕ INT MEM Error Not Format ! | This warning popup message may appear, when battery has been discharged in the course of Formatting, or when the USB plus was unplugged, while downloading a file. You need to conduct the Internal memory Normal Formatting. (See Page 31 [FORMAT] Setting.) |

| ⊕ Recording Error INT MEM Full ! | This is the case that recording cannot continue, due to no Internal Memory capacity. You need to delete unnecessary files in this product. |

| ⊕ Recording Error EXT MEM Full ! | This is the case that recording cannot continue, due to no SD/MMC Card capacity. You need to delete unnecessary files in this product. |

| ⊕ EXT MEM System Error | A problem took place in the SD/MMC Card. Conduct the SD/MMC Card Quick Formatting. (See Page 31 [FORMAT] Setting.) |

| ⊕ EXT MEMError Not Format ! | Case 1: When you use the SD/MMC card for the first time after purchasing it.
Case 2: When you inserted the SD/MMC card used in another device which supports another file format.
Case 3: When this product has been off, due to battery discharge in the course of the SD/MMC Card Formatting.
Case 4: When the USB plug was unplugged while you were downloading a file to SD/MMC Card. Conduct the INT. Normal Formatting. (See Page 31 [FORMAT] Setting.) |

| ⊕ EXT MEM Error Insert Again ! | Case 1: When you insert the SD/MMC Card slowly. (Insert the card again in a normal speed.)
Case 2: When recognition has been failed, due to wear and tear of the SD/MMC Card Slot of this product. (In this case, do not disassemble this product, but request an after sales service.) |

Font Download

The Font in the product may be damaged, due to inadequate movement while using this product. In this case, you may download the Font in the following manner.

Download the Font File (AMAC.FNT) to your PC from the
AMAC website www.amac21.com.
After connecting this product to your PC, download the downloaded "AMAC.FNT" file to this product.
(In doing so, if you change the file name, it is not recognized as a
Font file in this product.)
In doing so, this product searches automatically, if "AMAC.FNT"
file is in the product, and recognizes as the Font file and saves it.
(After the Font file is saved, it is automatically deleted.)

Specification

Model No.	HAN-500
Memory	Internal Memory : 128/256/512MB/1GB
	SD/MMC Card : 128/256/512/1GB
Battery	1.5V AAA type 1EA
Playing Time	10 Hours
Size	30X100X44mm
Interface	USB Port
Downloading Speed	6.8Mbps
Voice Recording Time	8 Hours (128MB, 32Kbps)

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MEMO

MEMO   **MEMO**

M E M O

M E M O