

Certificated Of Conformity

1. Company : AMAC TEK CO., LTD
3rd Floor, Seyo Bldg, 161-8,
Samsung -Dong, Kangnam-Gu,
Seoul. Korea. 135-881
2. Product Name : Hansori (MP3 digital audio player)
3. Model No : HAN-230UEF
4. 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.

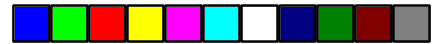
Caution : Any changes or modifications in construction of this device which are not device expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

-EN55022 + A1 : 2000 --- Information Technology Equipment - Radio disturbance

-EN55024 : 1998 --- Information Technology Equipment - Immunity

-EN55013 + A14 : 1999 --- Sound and television broadcast receivers and equipment - Radio disturbance





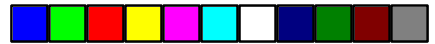
FCC Information

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

Canadian Radio Interference Regulations

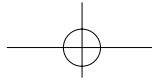
This Class B digital apparatus meets all requirements of the Canadian Interference Causing Equipment Regulations.



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Hansori



Feel the SurPrising
music Stream with Hansori!

HAN-230UEF

HAN-230UEF

amac



Contents

Prerequisite before usages

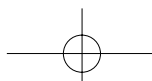
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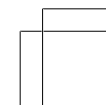
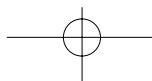
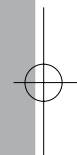
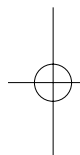
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HAN-230UEF



01 HAN-230UEF



Introduction of HAN-230UEF



◆ Perfect Digital Sound! *Hansori*

Let's enjoy the Dynamic digital MP3 sound!

HAN-230UEF allows you to download and save MP3 files through Internet and other audio devices
You can listen to the music with CD quality anytime anywhere, without cassette tape or CD.

Voice Recording

Voice recordable anytime anywhere.. lectures or meetings in school, company, classroom, etc. Jump up study efficiency!

Digital Sound

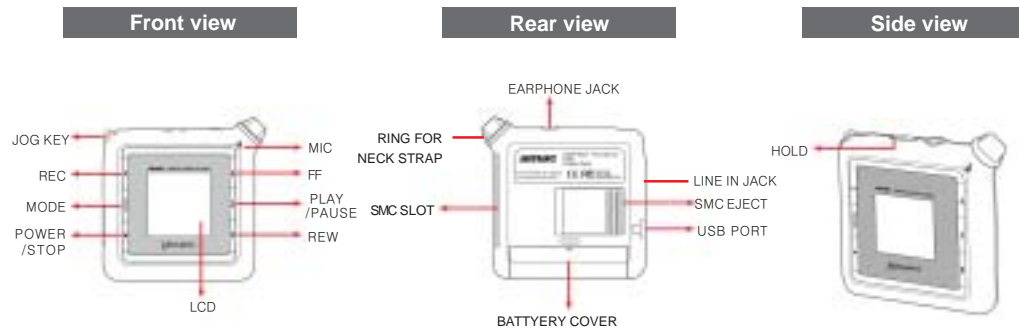
CD quality, no variation, best sound!

FM RADIO

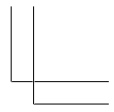
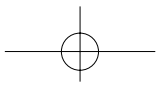
MP3 songs and FM radio as well... Best feeling!



Configuration



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Putting a battery in

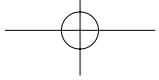
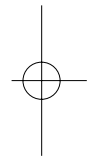
1. Open the battery cover toward the arrow.

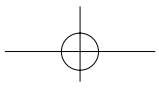


2. Secure that the battery is correctly connected to "+" and "-".

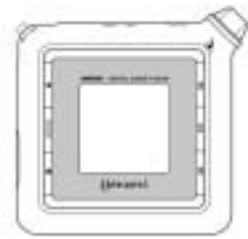


3. Close the battery cover after setting into hole.





Enclosures



HAN-230UEF



Batteries(AAA Type)



Earphone



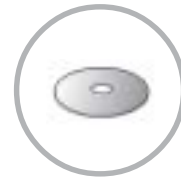
USB Cable



NECK STRAP

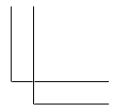
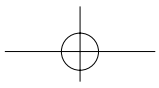


Manual



Install CD

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Listening to sample songs

※ MP3 Player has MP3 sample files stored in the factory.

1. Power On

Press STOP button (■) for some seconds. Then, power is switched on and 'POWER ON' is indicated on the LCD.



- Press PAUSE button (⏸) when a file is playing, and the file pauses.



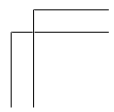
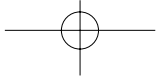
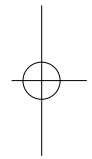
SEARCH FUNCTION
Press FF or REW button enough when a file is playing. Then, the previous or the next part in a single file will be played.

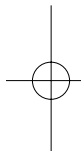
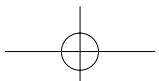
2. Listening to sample music

Press PLAY (▶) button, and you can listen to the stored sample files.



- Press (▲) button for the next file, or press (▼) button for the previous file.





3. Volume control

Move down JOG Key for volume down, or move up the key to volume up.



- You can control volume in the range of 00-30.

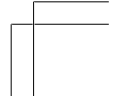
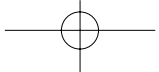
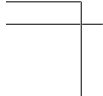
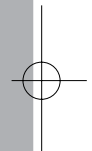


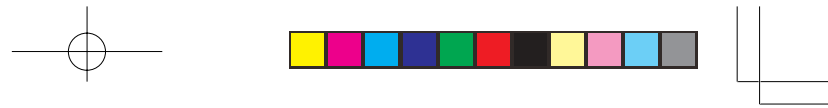
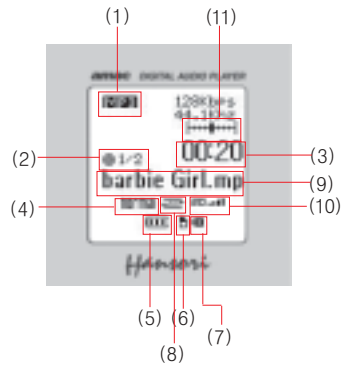
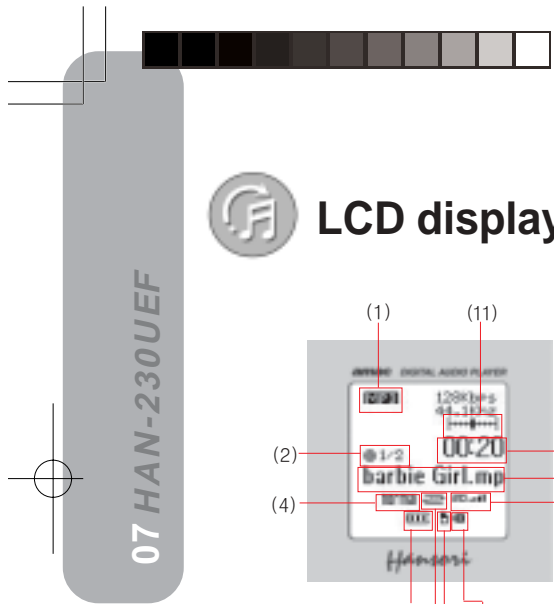
4. Stop / Power-off

Press STOP button (■), and your player stops playing. Press STOP button (■) for two or more seconds while the player does not play. Then, the power is switched off.



- If you do not press any buttons for one or more minutes while the player does not play, the power is automatically switched off..





- 1 Indicates the currently active mode. (MP3, Voice, FM Radio)
- 2 Indicates the memory of the currently played file. (internal or SMC)
- 3 Indicates the playing time of file.
- 4 Indicates the set EQ mode.



- 5 Indicates the battery life.
- 6 Indicates that SMC is built in MP3 Player.
- 7 Indicates that HOLD mode is active.
- 8 Indicates the set REPEAT mode.



- 9 Indicates the title of the currently selected file.
- 10 Indicates the volume level. (00~30)
- 11 Indicates playing speed



Installation of download program

* For program installation, the PC requirements are as follows:

- ◆ Windows98/Me/2000/XP
- ◆ USB Port-supportable PC
- ◆ CD-ROM drive
- ◆ 500MB or more available space of hard disk

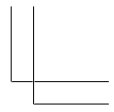
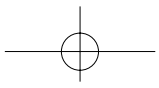
Installation of PROGRAM

You have to install of download program to your PC to download MP3 files from PC to your MP3 player.

- 1) Select a language on the first screen, and click on the [NEXT] button.
 - 2) On the last screen, key in the TTS Program Key (20 digits) attached on the Install CD. Then, click on the [OK] button.
- ※ Please be careful not to lose Program Key since it is not duplicable. It may take more than 1 minute for installing TTS program simultaneously.
- ※ *You could not use this TTS function if you input the TTS CD-KEY incorrectly. (refer to next page)*

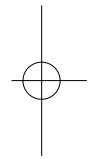


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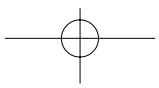
Rebooting

3) After typing in the Program Key, reboot your PC. Then, the program is successfully installed.



Icon

The installation makes the following icon. Check whether or not the HAN-230UEF Download Program icon exists on the windows background screen.

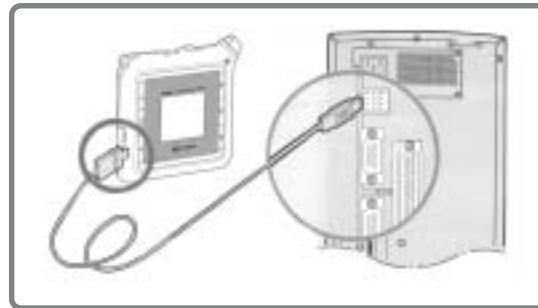




Connecting PC to MP3 Player

※ To download MP3 files from PC to HAN-230UEF, connect the provided USB cable between PC and MP3 Player.

[Connection between PC and MP3 Player]



['USB CONNECT' indication of LCD]



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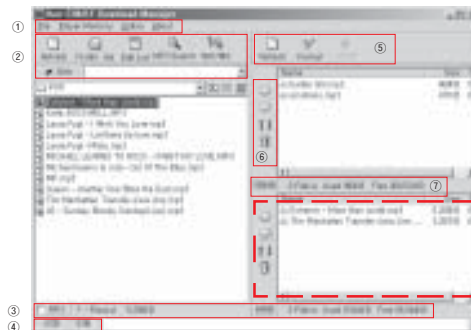


Executing Download Program

Executing Program

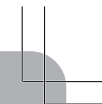
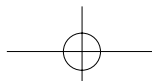
Double-click on the MP3 Player Download Program icon on Windows background screen, and the following window appears on the screen.

[Initial screen of Download program]



- ① Program menu
- ② Explorer menu
- ③ Explorer information
- ④ Player/program status information
- ⑤ Memory menu
- ⑥ Downloading & Uploading, Changing file sequence, Deletion of files
- ⑦ Memory information

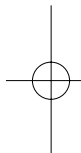
[The right below window on the above picture (displayed face on the dotted line) will be displayed when SMC CARD is inserted. The basic window doesn't display. The SMC CARD is sold separately]



Formatting memories

※ To store MP3 files-

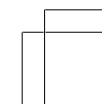
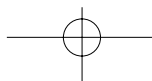
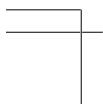
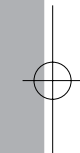
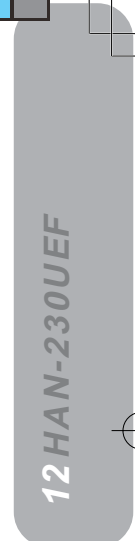
- You had better format the memories when you could not store the files or download slowly.



① Click on the Format icon at the upper right corner, and the following window appears on the screen.

② Select internal (Built-In) or external (SMC) memory that you want to format, and the format starts running.

③ After formatting, press the CLOSE button.





Searching for stored MP3 files

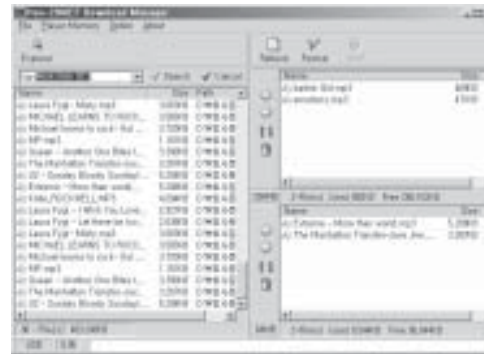
This function is searching for stored MP3 MP3 files in PC

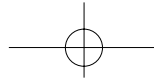
[Click on MP3 Search Icon]



* If the searching does not detect any MP3 files, it means there is no MP3 file in the given driver of PC. Select another driver, and search for those again.

[MP3 File Search inside PC]






Downloading / Uploading MP3 files


Downloading

You can download MP3 files from your PC to this MP3 player.

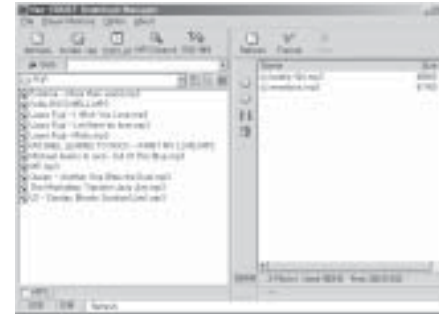
- ※ You can download MP3 files from PC to MP3 PLAYER. Select one or more files in the left side of window, and press  Button.

Uploading

On the contrary, you can upload MP3 files from MP3 PLAYER to PC.

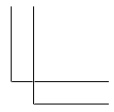
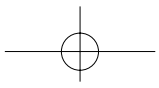
- ※ Select one or more files in the right side of window, and press  button.

[Download /upload]



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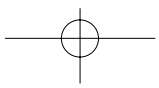
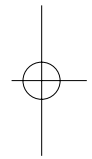
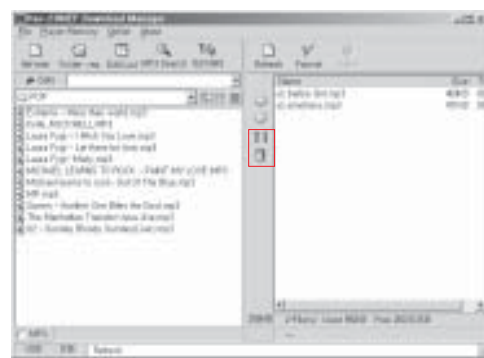


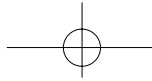
Changing a sequence and deleting stored files

※ Connect USB cable between PC and MP3 player, and execute the download program.

After selecting a file, you can change a sequence of files by pressing **⏮** **⏪** buttons.

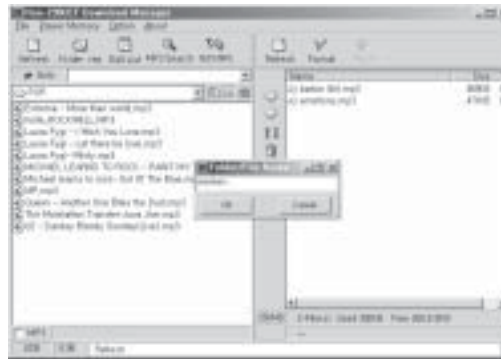
To delete a file, select the file and click on the **🗑** button.





Changing a file name (Rename)

If you want to change the file name, the mouse should point to the file which will be changed on the memory window in the download program and click the **[Name Change]** by press the right button of mouse. And then you type the changed name and hit **[ENTER]** Key.






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TTS(Text To Speech) function

Converting Text to a MP3 file

Press  button in program active mode, then the mode changes into TTS mode and display the text edit window. Copy an English text and paste it on the TEXT window, and click on  button. Then MP3 player reads and speaks the text. If press download button , the file will be changed into the form of MP3 file and get downloaded to the MP3 player.

※ If you want to change to 'EXPLORER' mode, press 'EXPLORER' button.

※ TTS function can be supported in English currently.



What is TTS (Text to Speech)?
You can convert a text file from an internet site or general text into a MP3 file and can store the file to the player for language study purpose.



Setting MODE

There are four executable modes of **MP3 mode**, **VOICE mode**, **LINE mode** and **FM mode**. The files of internal/external memory can be deleted, and MPEG is changeable by the player function.

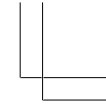
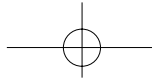


[Mode button front side of LCD]

- ① When power is turned on, the MP3 Player is in the MP3 mode.
- ② Press the mode button for mode change.
(Mode shall be proceed **[MP3 → VOICE → LINE → FM → MP3]** in sequence).

MP3 MODE

In MP3 MODE, you can control the sound(EQ) for your preference, and can use functions of REPEAT, SECTION REPEAT AND PLAYING SPEED CONTROL for language study etc.
(For general operations, refer to «Listen to sample songs» on the page No. 5).



JOG Key function

MP3 Player has a function of JOG Key for user convenience.

In MP3 play mode, the JOG Key proceeds to **[Volume → PLAYING SPEED → EQ → REPEAT → Volume]** in sequence by pressing it. Then, you can easily control these functions specifically by moving JOG Key up and down.

※ JOG Key is available in Voice Mode and Line Mode as well

Playing speed control

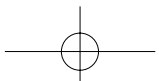
Press JOG Key in MP3 Mode once, and the playing speed control bar starts blinking. At this time, move the JOG Key downward and upward. Then, the playing speed changes -20 % to +20% with 9 steps.

[100%]



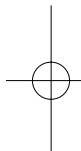
[95%]



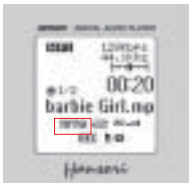


Sound control(EQ)

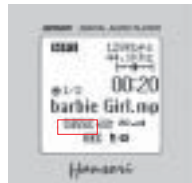
Press JOG Key twice in the MP3 Mode , and the EQ MODE on LCD starts blinking. At this time, move the JOG Key downward and upward. Then, the EQ will be changed.



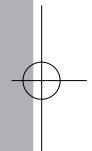
[Normal]



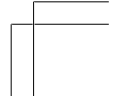
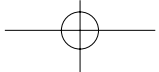
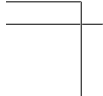
[Classic]

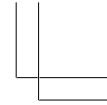
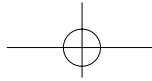


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Normal → Classic → Jazz → Rock → M-Bass → Normal





Repeat

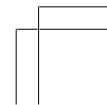
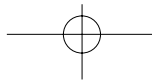
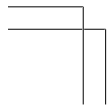
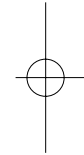
Press JOG Key 3 times in the MP3 Mode , then the REPEAT starts blinking. At this time, move the JOG Key downward and upward. Then, the state changes into Normal → 1 (One song) → All (All songs) → Random (No sequence) → Intro (Prelude: playing songs prelude for all songs every 15 seconds) in sequence.

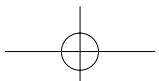
※ Random: playing the MP3 files in irregular sequence. You may listen to the same files repeatedly.

[REPEAT ALL]



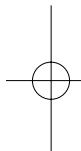
[REPEAT 1]





Selected section repeat (A~B)

This function is available for listening between start point and end point that you want to repeat.
Press REC button (●) at the points of start and end that you want to repeat. Then, the selected section is repeated to play. To release the selected section, press the REC button (●) again.



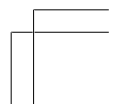
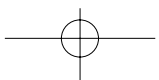
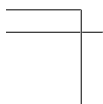
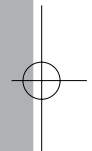
[Start point A]

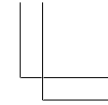
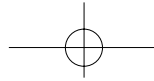


[End point B]



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Resume function

Resume function

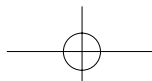
This function remember the last played position when the Power down or stop the playing, and play from the remembered position when play again.

Setting/Cancel the Resume function

Press the STOP(■) button to set the Resume function when changing mode or power down in while playing the file. Press the STOP(■) button again to cancel the Resume function.

Hold function

- With this function, you can prevent HAN-230UEF against malfunction in the disordered place.
- While this button is placed in the ON position, you can not control any buttons.



VOICE MODE

* This function can record to lecture, conference and any voices to your MP3 Player.

Voice recording

Press the MODE button once, and then the MP3 MODE will be changed to VOICE MODE.

- Press REC button (●) to start recording.
- Press STOP button (■) to stop recording.

[Start recording]



[End recording]



Listening to recorded voice

[Voice mode selection by pressing the MODE button]

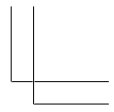
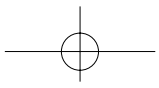


[Press PLAY(▶) button and listen]



- You can listen to voice by uploading the file to your PC as well.

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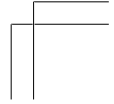
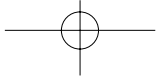
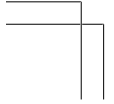
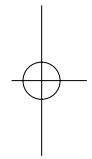
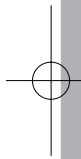


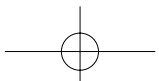
LINE(ENCODING) MODE

Recording from other audio devices

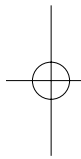
You can record to MP3 files from other audio devices such as CDP, cassette deck without PC.

1. Connect to attached audio cable to LINE-IN.
2. Connect to LINE-OUT of other audio devices (EX: CDP). Please connect to earphone terminal if there is no LINE-OUT terminal.

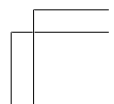
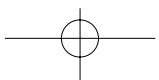
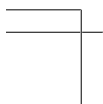
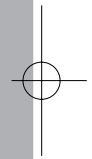




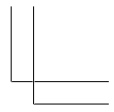
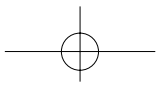
3. Turn on the MP3 player, and press the MODE button three times to LINE mode.
4. Press the REC button to start recording after playing the source music from other audio devices.
5. Press the stop button to STOP(■) the recording.
6. You can listen to the recorded file in the LINE mode.



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FM MODE (Listening to FM Radio)

- * Press the MODE button twice, and then the MP3 MODE will be changed to FM MODE.
- * Setting/Cancel MUTE function: Press the PLAY(▶||) button to set/cancel the MUTE function.

Automatically storing frequencies (PRESET)

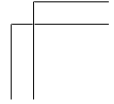
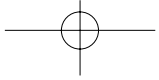
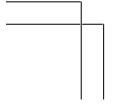
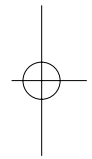
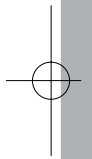
- Pressing JOG Key for two or more seconds, HAN-230UEF automatically searches for and detects FM frequencies audible in the range of 87MHz~108MHz; and stores them up to 15 channels. (PRESET1~PRESET15)
- Pressing JOG Key one by one, you can select the next frequency among the automatically memorized frequencies.

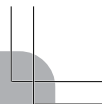
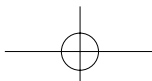


[Memorizing frequency automatically]



[Changing the memorized frequencies]

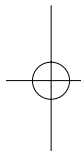




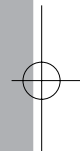
Storing frequencies by manual

In some places, the JOG Key does not detect the automatically memorized frequencies.

In this case, use FF (▲) or REW (▼) button to designate audible frequencies, and press the PLAY (▶) button enough. Then, you can change the preset frequency of the currently selected channel only.



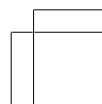
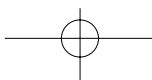
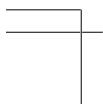
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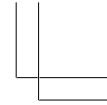
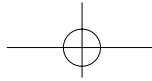


Automatically storing frequencies

Press the FF or REW button for a while, FM mode automatically searches for next/previous memorized frequencies.

-In the places that frequencies are not automatically stored, 87.0MHz is designated to all the 15 channels of PRESET. Pressing jog key one by one, you can set another frequency to your preset memory.





Recording FM broadcasting

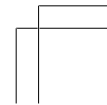
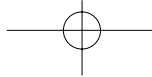
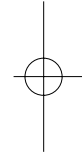
HAN-230UEF has a function of recording the FM broadcasting to which you are listening, so you can record and play back the radio broadcasting to/from a file.

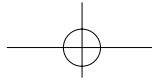


[Press REC(●) button while listening to the radio, and HAN-230UEF starts recording.]



[Press STOP(■) button while recording the radio broadcasting, and HAN-230UEF stops recording.]





Deleting stored memory

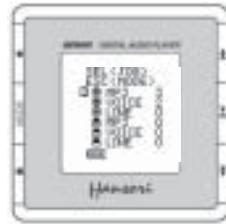
* Press MODE button for two or more seconds, and HAN-230UEF changes into INFO MODE applied only to MP3 mode or voice mode.

When memory space is not enough to store files, delete the files stored in the memory. You can get more space for storing. (You can delete both MP3 and TTS files)

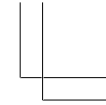
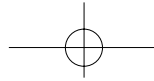
-You can not recover the deleted files.

1. In INFO Mode, move volume key up and down to select memory and file type. Then, press JOG Key.

2. When the file name appears on the screen, move Volume key up and down to select the file that you want to delete. Then, press JOG Key.



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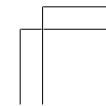
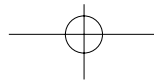
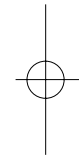


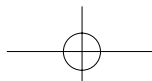
- If you release INFO MODE by pressing MODE button, HAN-230UEF changes into MP3 MODE.
- If you release the mode abnormally in the INFO MODE, the stored files could be damaged.
- Only in MP3 mode, release the mode.

3. Press JOG Key, and 'DELETED' appears on the screen. Then, the file is deleted.



- ◆ To delete another file additionally, select the file that you want to delete by using JOG Key. Then, delete the file.
- ◆ Be careful. You cannot recover the deleted file.
- ◆ To turn back to the previous stage, press MODE button one by one.





Setting the MPEG mode

Press mode button for two or more seconds.

Select to MPEG mode with JOG Key, and press JOG Key to display MPEG mode setting. You can set to both MPEG and Bitrate in this mode.

[MPEG mode]



[MPEG1 mode]

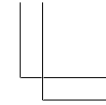
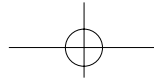


[MPEG2 mode]



Select to Bitrate with JOG Key in the MPEG mode, you can control any mode with JOG Key.

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MPEG

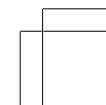
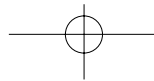
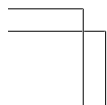
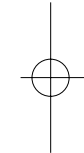
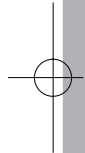
Press JOG Key to select the MPEG mode. You can control the JOG Key up and down to select MPEG1, MPEG2 mode.
(Bitrate will be changed together with MPEG mode.)

Bitrate

Press JOG Key to select bitrate(128Kbps), and set the Bitrate mode with JOG Key.

This MP3 player is set the MPEG1, Bitrate 128Kbps in the factory.
Bitrate is higher hold memory space bigger.
VOICE mode is set the MPEG2 and Bitrate 32kbps.

MPEG1 mode support to 14 steps Bitrate among the 32kbps~320kbps. When encoding by MPEG2 mode, 14 steps Bitrate among the 8kbps to 160kbps.





Others and Cautions

Addition of SMC

You can have more memory space by adding a SMC (Smart Media Card).

Power off MP3 Player before using a SMC.



[Mount on the SMC that you have additionally purchased, in the same direction as illustrated in the figure.]

■ Cautions for SMC use ■

1. Format the external memory before using the SMC. (Refer to the page No. 12.)
2. Don't pull out the SMC during play. Otherwise, data can be damaged and the player may have malfunctions.
3. The metal surface of the front side of SMC is contacted to the internal circuit of MP3 player. Be careful that the surface is not damaged.



[Insert SMC into MP3 player and power on. SMC appears on the LCD screen.]

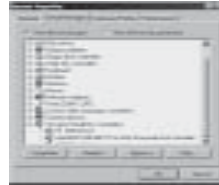
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Supplements and solutions against problems

Q1. Questions for USB driver

Download program does not link to the MP3 player, and it generates a message of "Cannot open the driver. Did you install the USB driver?"

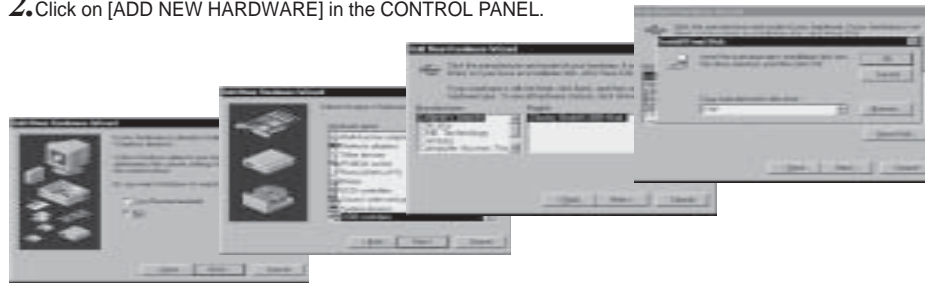


1. While this product is properly connected with PC, Click on [START] of Windows and select **CONTROL PANEL → SYSTEM → DEVICE MANAGEMENT** in sequence. Then, double-click on [Universal USB Controller] and check of whether or not the AMAC USB Driver exists.
2. Select and Delete AMAC USB driver or the USB driver of other devices if they have a question mark or an exclamation mark or "Unknown Device" exists.
3. Leave alone the USB cable connected to the USB port of PC, and pull out the USB cable from the MP3 Player. Then, reboot the PC.
4. Connect the cable to the MP3 player after rebooting, and the USB driver is automatically detected (Win98/ME). As for WIn2000 or XP, you have to install the USB driver by hand - refer to "Installations by hand" on the page No. 36-38.

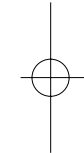
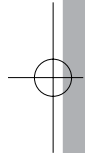
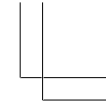
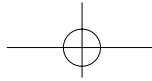


Installation of USB driver by hand (Win98/ME)

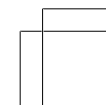
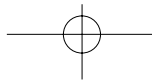
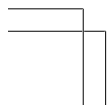
1. Put the Program Installation CD into the CD-ROM drive.
2. Click on [ADD NEW HARDWARE] in the CONTROL PANEL.

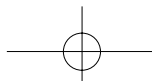


3. Click on [NO (N), Select in the hardware list.]
4. Click on [USB Controller] among hardware types.
5. Click on [Disk].
6. Select the drive that the Installation CD is currently placed, and then click on [SEARCH].



- 7.** Select drive and path that the CD is currently placed.
- amac install CD → amac.inf → then, click on [OK] button.
- 8.** Select AMAC USB Driver and click on [Next].
- 9.** Click on [Next].
- 10.** Click on [Exit] to complete the installation.

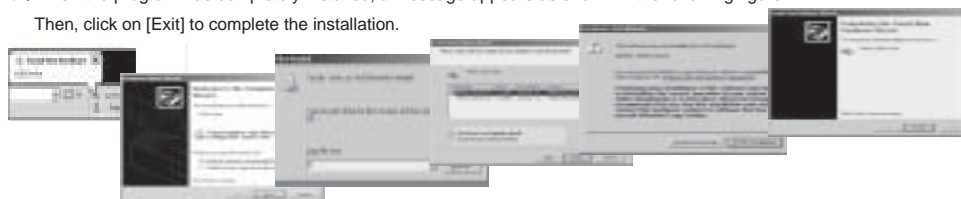




Installation of USB driver by hand(Win2000/XP)

1. When you have successfully installed the Download Program and connected the cable, the following figure appears on the Windows Menu Bar.
2. Click on the 'X' of the message [New hardware found], and the following figure appears on the screen.
3. Click on [Next].
4. Select "Include the following location in search" and click on [Find]. Designate the folder that "AMAC Install CD" or "amac.inf" file exists, and then click on [Open] and [Next] in sequence.
5. Select amac.inf in the list and click on [Next].
6. An error message can occur and you can click on [Continue] button during installation, but it does not influence the OS.
7. When the program has completely installed, a message appears as shown in the following figure. Then, click on [Exit] to complete the installation.

As for Win2000, most of the restarting explained on the page 35 generates the 3rd. figure from the left. Designate the path of Install CD-Rom and click on [Next]. Then, the installation of USB driver start running.



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Cautions

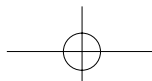
1. Putting a battery correctly after check up the positive and negative. (It may causes out of order.)
2. Do not impact the product, such as drop. Otherwise, the product may be damaged.
3. Be careful that water shall not flow into the product.
If the product is wet, dry it with a un-wet cloth. Then, contact AMAC Co., Ltd.
(3rd Floor, Seyo Bldg., 161-8, Samsung-Dong, Kangnam-Gu, Seoul, Korea.
☎822-574-8012, Working hours 09:00 ~ 18:00)
4. Do not expose in many hours on a direct ray of lights or closed place or heat appliance.
(A caution of transformation and a change of color by high temperature and a caution of keeping in a car on outdoors parking lot)
5. Avoid keeping MP3 Player in place with high moisture, strong magnetic properties, and strong heating.
6. Do not disassemble a product unnecessarily except a AMAC Information Network serviceman.
7. It should be polished with a soft piece of cloth. Do not polish with a chemical material(Benzene, Thinner, organic solvent,).
8. When you do not use the product for a long time, remove the battery.
It will cause a product damage with a battery leakage.
9. Avoid keeping MP3 player in place with direct ray of light, airtight space, besides heater etc.



Specifications of product

Model No.	HAN-230UEF
Memory	Internal Memory: 64/128/256/512MB External Memory: 16/32/64/128MB
Batteries	1.5V X AAA type 1EA
Playing Time	12 Hours
Size / Weight	60 X 60 X 15mm / 43g(Battery excluded)
Interface	USB Port
Downloading Speed	10Mbps
Voice recording Time	8 Hours (128MB/32Kbps)



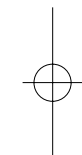


Compensation for customeris loss

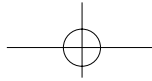
Type and compensation for customeris loss

* The refund will be available only a purchased place.

Type of customeris loss		Compensations	
		Within compensation period	After expiration of compensation period
When performance and function require important repair due to problems occurred during normal use within 10 days from the purchase		Exchange or refund	None
When performance and function require important repair due to problems occurred during normal use within one month from the purchase		Exchange product	
Possible to repair	Same abnormality up to three times	Exchange or refund	Repair with charge
	Same abnormality up to four times		
Impossible to repair	Impossible to repair even though there are repairing components		Exchange after depreciation of the fixed sum for repayment
	Impossible to repair without repairing components	Exchange of product after accepting the amount corresponding to the repair with charge	Applied to AMACis regulations
Breakdown due to customeris mistake	Impossible to repair	Repair with charge	Repair with charge
	Possible to repair		



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Product warranty certification

1. This product is produced with strict quality control and inspections of AMAC.
2. AMAC performs warranty for the following products according to the regulations of compensation for customer's loss.
3. Contact the product purchase agencies for abnormalities of product.
(When you cannot contact any agent, contact AMAC is A/S center (822-574-8012))
4. AMAC answers as to whether or not to compensate the product and notices within 7 days as of the date reported, and performs compensation for loss with 14 days as of the date reported.
5. Products of Hansori are guaranteed during one year.

* Visit AMAC's home page (www.amac21.com) and register yourself as customer.

Product name	<input type="text"/>	Model ID.	<input type="text"/>
Purchased date	<input type="text"/>	Manufactured date	<input type="text"/>
Agent	<input type="text"/>	Amount sold	<input type="text"/>

- All kinds of service apply to the registered data, associated with A/S and MP3.
- Charge-free service applies only to abnormalities within one year (warranty period) as of the product-purchased date.

