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# **DAH-1500** **User's Manual**



**CUBE DIGITAL AUDIO PLAYER**



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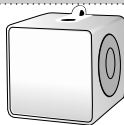
# MEMO

[illegible]

# 1



# Before Starting



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## Safety Precautions

- Avoid humidity and dust.



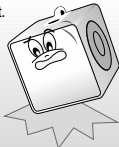
- Do not disassemble or modify the product.



- Keep unit away from heat and direct sunlight.



- Do not drop the unit.



- Using chemical or other cleansers may damage the unit's surface.



- Do not touch with wet hands.



## Safety Precautions

- Distributing music files without authorization is against copyright law.



- The manufacturer is not responsible for any damage caused to data saved in the unit if caused by user. We do not guarantee that data will not be lost during service or repair.



- Listening to loud music may cause hearing loss.



- Do not use earphones while riding a bicycle or motorcycle, or while driving a car.



- Reset the unit immediately if you detect excessive heat is being generated by the unit. Contact an service center.





## Safety Precautions

### Safety matters for AC Adaptor



● To avoid shock do not open the unit.



- Non-insulated parts in the AC adaptor may cause electric shock. Don't open the adaptor case.
- Carefully read the manual for instructions on proper use of the AC adaptor.

#### Warning!

Prevent the AC adaptor from contacting water to avoid fire or electric shock. Use enclosed adaptor in the package only to ensure the safety. (Manufacturer is not responsible for any trouble caused by using other adaptors).

#### Note!

Use correct outlet socket to connect with the power plug to avoid electric shock. The power plug shall not be exposed outside when it is successfully connected into the socket.



## Safety Precautions

### Built-in Battery

- Don't use a damaged built-in battery or AC adaptor.
- Exceeding the recommended recharging time may cause a fire.
- Fully recharge the battery before initial use or after a lengthy period of inactivity.
- When the battery no longer holds its charge despite being fully recharged; it's time to replace it.
- To avoid fire or electric shock do not allow metal parts on the DC converter to come in contact with conductive materials such as metals, water etc.
- To prevent fire and electric shock avoid contact with water.

## Special Features



### World's smallest Mp3 Player

Super compact size (24\*24\*24mm) and weighs only 18 grams!  
A fully featured MP3/audio player that fits in the palm of your hand!



### OLED Display

The latest in display technology provides superior sharpness and brilliance over standard LCDs.



### Six Preset EQ modes plus one User-set EQ mode

Features 6 preset equalization modes; Normal/ Rock/ Jazz/Pop /Classic/ Live and you can also customize equalization to suit your sound.



### File Navigation System and Unlimited Folder Capacity

The player can play MP3 files saved in multiple folders. Those files and folders can be selected and played as if in a Windows environment.



### Easy & Convenient Clock

Built in clock keeps you on time.

## Special Features



### PC Peripheral Device

By connecting the product to PC, the Windows system identifies it as a removable disk. No additional software needed.



### FM Radio

Enjoy FM radio listening as well as digital music files (MP3/WMA)!



### Built-in Lithium-ion Battery

No extra battery or recharger is required. This advanced battery system is easily recharged by connecting into the USB port on your PC.



### Resume Function in Second Unit

Settings are automatically restored when the unit is powered ON in case of sudden power down.



### Firmware Upgradeable

Firmware is easily upgradeable to new features and functions.

## Technical Specifications

Functions	Items	Specifications
FM Tuner	FM Frequency Range	87.5 MHz ~108.0MHz
	Headset Output	Max. 7mW (16 $\Omega$ ) Max Volume
	S/N Ratio	50dB
	Antenna	Headset/earphone antenna
Audio	Frequency Characteristics	20Hz ~ 20KHz
	Headset Output	Max. 15mW (16 $\Omega$ ) Max Volume
	S/N ratio	90dB
Supporting Files	File format	MP3, WMA
	Bit rate	MP3 : 8~320Kbps, WMA : 32~192Kbps
USB	Download speed	6Mbps (USB Ver 1.1)
Max. Running Time		17 hours
Operating Temperature		-5℃~70℃
Size (W × H × D)		24 X 24 X 24 (mm)
Weight		18 (g)
Battery (Built-in)		Li-ion

## Accessories

\* Accessories shown below may be different from purchased products.



USB / Charging Cable



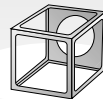
Program CD



Necklace Earphone



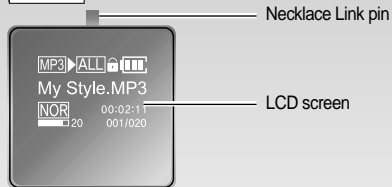
User's Manual



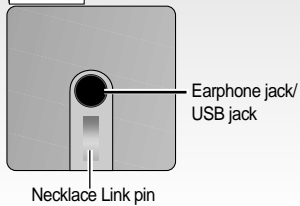
Cube Crate Protective Case

## Part Specifications

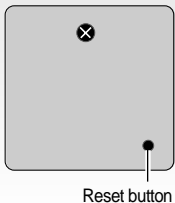
### Front



### Top

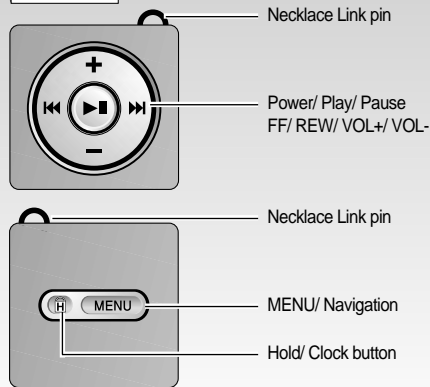


### Bottom



## Part Specifications

### Sides





## Buttons



- Power ON/OFF
- File Play/ Pause
- Move to Submenu/ Menu Set-value Save



- Searching Previous/Next File
- Move to Left/Right Menu
- Move to Navigation sub/preceding Folder



- Volume Up/Down
- Move to Upper/lower Menu
- Move to Navigation sub/preceding folder or file

**MENU**

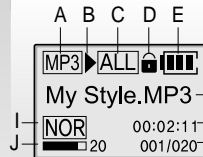
- Move into Menu/ Navigation Mode
- Move to preceding Menu



- Hold
- Clock View

## LCD Display

### Music Mode



A: Displays file format currently playing

B: Displays file status (Play/ Pause)

C: Displays play mode

D: Displays hold status

E: Displays battery status

F: Displays file title

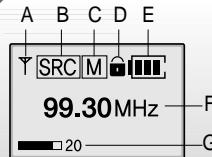
G: Displays file elapsing time

H: Displays current file No./ total file number

I: Displays EQ

J: Displays volume

### FM Mode



A: Signal strength (Antenna)

B: Displays search/ preset mode

C: Displays stereo/ mono

D: Displays hold status



E: Displays battery status

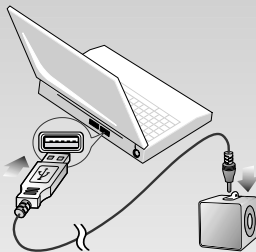
F: Displays frequency

G: Displays volume


## Recharging

1. To recharge the battery use the USB cable to connect the unit to the PC.

2. LCD screen shows the icon change from  to  when it is fully recharged.



### Note!

- It takes approx 3 hours to completely recharge a fully discharged battery.
- Recharging is not interrupted while downloading/uploading files from/to PC.
- Recharge the product using USB cable when LCD screen is not activated.
- LCD screen shows  when any error in recharge process occurs. Try to recharge few times more. If the error recurs, contact an Service Center.

## Power

1. When the unit is turned on initially the battery icon indicates various charge levels.



2. Duration of continuous play.

17 hours under the following conditions:

- ① MP3: 128Kbps, 32Khz
- ② Volume is set no higher than 15
- ③ Power Volume is not in use



※When to recharge the battery:

- ① Buttons are not functioning properly.
- ② LCD is not activated by pushing the power button.

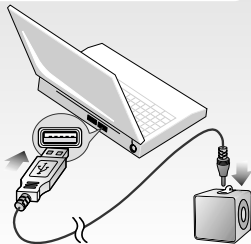
## Connecting to a PC

### Note!

- What's USB (Universal Serial Bus)? This is a new connection system between PC and peripheral devices.
- Connect the USB cable supplied with the product into a USB port in PC. Any unexpected error can be happened when connecting to the USB port in front of PC or USB hub.
- Windows version 98SE or lower will not detect the DAH-1500 as a peripheral device. To have your PC detect the player Install the Program CD supplied.

### USB cable connection

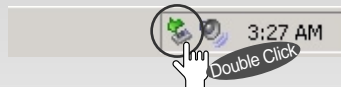
Connect one end of the cable into a USB port on the back of your PC and the other end to the earphone jack of the DAH-1500.



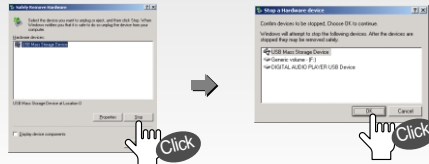
## Disconnecting

### ■ Windows ME, 2000 and XP Operating Systems

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



- 2 Click on "Stop" and "OK" after selecting "USB High Capacity Storage Device"





## Power ON/OFF

### Turn Power ON



Press and hold the play/pause button to turn the power on.

#### Note!

- When the battery needs recharging the LCD will display the 'Battery Low' icon.
- Recharge the battery when LCD is not activated.

### Turning Power OFF



Press and hold the play/pause button to turn the unit off.

#### Note!

- When no button manipulation in pause condition is done after the set period of time for "Auto Power Off," it automatically turns off the power.
- In case with no earphone connected after a certain period time, it automatically turns the power off.
- When you try to play a file after the restarting of the product, it completely recovers all previous setting. All track numbers, equalizer and other settings are recovered. (Resume function in second unit)

## Playing Music

### Playing file



Press the play/pause button once to play a selected file.

### Stop



Press the play/pause button once more to stop play.

### Volume control



- Press "+" or "-" to increase or decrease the volume incrementally.
- Press and hold "+" or "-" to increase or decrease the volume continuously.

## Playing Music

### File Selection

While playing music file



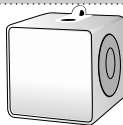
Press the file selection buttons once to skip to the next or previous file and the file will play.

When music is paused



Press the file selection buttons to skip to the next /previous file without playing the file.

## 3 Common Functions

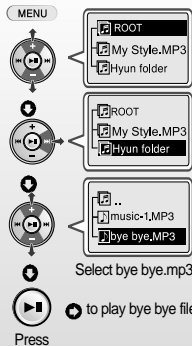


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## File Navigation



Example) play file "bye bye" :

Press and hold the "Menu" button to access the player's main menus.



Choose Hyun Folder and press the "Fast Forward" button.


### Note!

- Press the "Rewind" button to move to upper-level folders.
- Press **MENU** to exit Navigation mode.
-  Folder icon
-  File icon

## Hold



### Hold Mode Functions



Press and hold the hold button  to pause all functions. Press the button once again to resume normal functioning.




### Note!

- All buttons and functions are deactivated in Hold Mode.
-  is changed to  when it is in Hold.

## Time

### Time verification Auto Power OFF



Press  once to view the current time. Press the button again to exit.



#### Note!

Set the time by pressing the "Menu" button until you reach "Etc Set". Then select the "Set Time" option. (See page 52 for more details)

## Auto Power OFF

### Auto Power OFF



- When the earphone has not been connected for a certain period of time (1 minute), LCD displays "Earphone jack unplugged!" and it turns the power off.

#### Note!

If you reconnect the earphone, the power will not turn off.

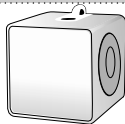




# MEMO

4

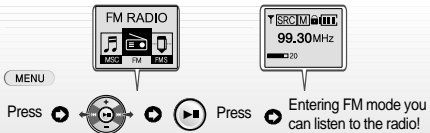
# FM Radio



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## FM Radio Function

### Listening to the FM Radio



#### Note!

- The earphone also acts as the radio antenna.
- Local frequency ranges vary globally.

### Mono/Stereo



## Tuning the Radio

### Tuning in Radio Frequency

#### Searching for Radio Channels



in FM search mode to increase/decrease frequencies by 0.05MHz.

Press

#### Searching for Radio Channels



in FM search mode to continuously increase/decrease frequencies.

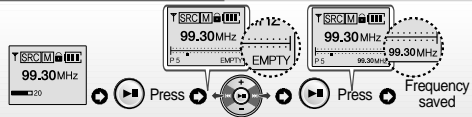
Press and hold

#### Note!

- The frequency with the strongest signal is selected.

## Saving FM Frequencies

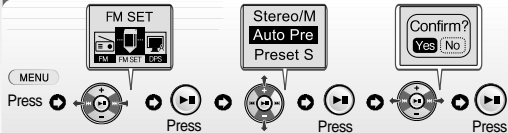
### Manual Channel Save



#### Note!

- Channels can be saved in Preset No. 1 through to 20.
- Press **MENU** in auto frequency search to stop saving station frequencies.

### Auto Channel Save



#### Note!

- Press **MENU** in auto frequency search to stop searching for stations.

## Saving FM Frequencies

### Preset Stop Level

When searching frequencies by pressing the button to FF/REW direction the frequency stop points are variable according to preset stop levels (4 to 12)



#### Note!

- When the level is set close to 4 higher stop frequency is expected.
- When the level is set close to 12 lower stop frequency is expected.

## Preset Mode

### Entering Preset Mode



#### Note!

- You can access the station frequencies you save by entering Preset Mode.

### Preset Search

In FM Preset Mode



in FM Preset Mode to increase/decrease the Preset Number.

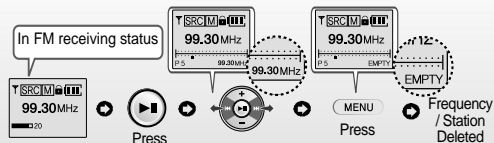
#### Note!

- Preset search is not available if there are no channels saved.

## Deleting Frequencies

### Deleting Saved Frequencies

For example) delete the frequency [99.3MHz]:



#### Note!

- Press and hold the MENU button to exit "Delete" Mode.

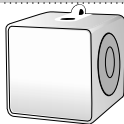


# MEMO

# 5



# Menus

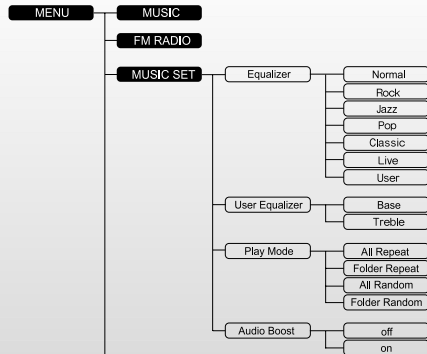


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# Menu List

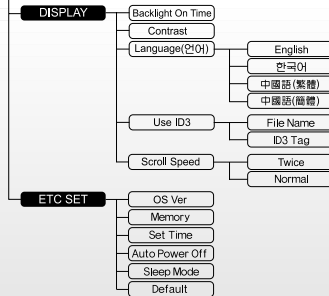
## Menu List




Menus available in the product are as follows



# Menu List

## Menu List



Main menu	Sub menu	Set menu
There are five main menus. Each menu contains sub menus.	There are sub menus, Set menu under each main menu.	
		

# Menu Buttons

## Menu Button Functions

### 1. View Menu

Press 

### 2. Searching Menu



### 3. Entering Sub Menus, Set menu



### 4. Modifying & Saving Set Value




# Menu Buttons

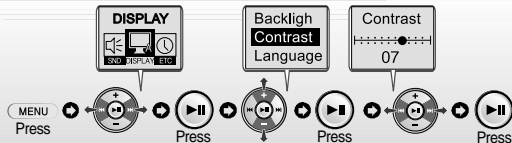
## Menu Button Functions

### 5. Returning to preceding Menus (Main or Sub)



Press and hold  to exit Menu Mode.

### Example) Set brightness to 7 in 'Contrast'



## Menu (Mode Change)

### Music

Select "Music" from the main menu.



### FM Radio

Select FM Radio from the main menu.

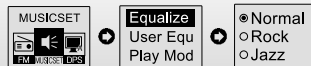


## Music Set

Select "Music Set" from the main menu.

### Equalizer

Select "Equalizer" to select an equalization mode suited to the genre of music you want to play (i.e. Normal, Rock, Jazz, Pop, Classic, Live, User Set).



### User Equalizer

Customize the equalization by selecting Music Set>User Equ>Base/Treble. You can set the base and treble ranges between -7 and +7.

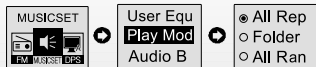




## Music Set

### Play Mode

In 'Play Mode' you can select how you want to play your files (i.e. Repeat all files, Repeat files in the folder, Random play in sequence, Random play in the folder).



**ALL** All Repeat : all music files are repeatedly played in sequence.

**FLD** Folder Repeat : music files in current folder are repeatedly played in sequence.

**ALR** All Random : all files are randomly played.

**FLR** Folder Random : files in current folder are randomly played.

## Music Set

### Audio Boost

With Audio Boost you can enjoy enhanced sound with increased power output.



Off : Files play at normal volume and power output.

On : Files play at higher volume with higher power output.

※Note! .....

Since Audio Boost uses more power it consumes battery life quicker than normal mode.

## Display

Choose 'Display' from the main menu

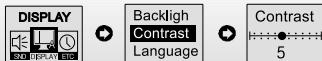
### Backlight On Time

It enables you set backlighting periods of LCD among 5, 15, 30 seconds and always ON.



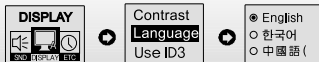
### Contrast

This function let you set the brightness of LCD from 1 to 10 levels.



### Language

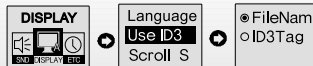
You can select preferable language of English, Korean or Chinese.



## Display

### Use ID3

The function enables you set music file information (File name, ID3 info) displayed on LCD. 'USE ID3' allows you to enter additional information about your saved files.



File Name : Displays file names

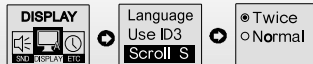
ID3 Tag : Displays ID3 tags instead of file names

※Note! .....

Files with no ID3 tag info displays file names only.

### Scroll Speed

This function sets text scrolling speed on LCD display. Choose between Fast ('Twice') and 'Normal'.



Twice : File names scroll at higher speed on LCD.

Normal : File name streams on LCD at normal speed.

## Etc Set

Select 'Etc Set' from the main menu

### OS Ver

The function shows unit firmware information ('OS').



### Memory

Displays Total memory, Used memory, and Free memory.



### Set Time

Select 'Set Time' to set the time, day, date, month and year.



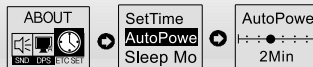
※ Note!

Press the button to view the set time in Play and FM Radio Modes.

## Etc Set

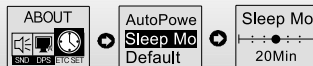
### Auto Power Off

Using this feature while the unit is paused or stopped allows you to set the unit to turn off automatically after a set time (30 seconds/ 1minute/ 2minutes/ 5minutes/ 10minutes or disabled) while playing as long you don't touch the controls otherwise.



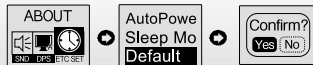
### Sleep Mode

You can set the power to automatically turn off after a set period of time (10/ 20/ 30/ 60 minutes or disabled).



### Default

Selecting the default initializes all preset settings.



Yes: All preset information is initialized.

No: Cancels initialization.

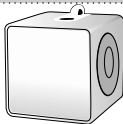


# MEMO

## 6



# Program



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## Installing the Program CD

### System Requirements

Minimum requirements for PC system are as follows

- Microsoft OS (Windows 98SE, ME, 2000 or XP)
- CD-ROM Drive
- Pentium 200Mhz or more
- RAM 32MB or more (64MB for Windows ME or later version)
- 128MB or more hard disk space  
(Additional hard disk may be needed for saving music files)
- USB port available
- Mac. 9.X-X

### Installing the Program CD

#### Note!

■ The Program CD allows you to upload or download files without installing other additional software.

■ For Windows 98SE Users: install the software first before using the player (otherwise, PC will not detect the player as a peripheral).

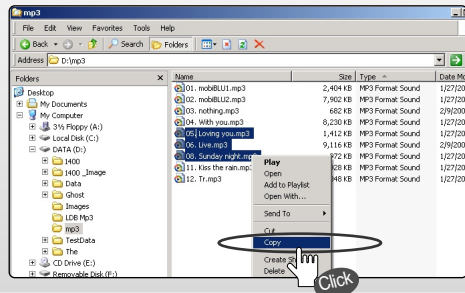
## Downloading/ Uploading Files

### Downloading or uploading files

#### Note!

■ The unit downloads or uploads all types of data files ( \*.jpg, \*.xls, \*.hwp, ...). It functions as a removable disk as well as an MP3 player.

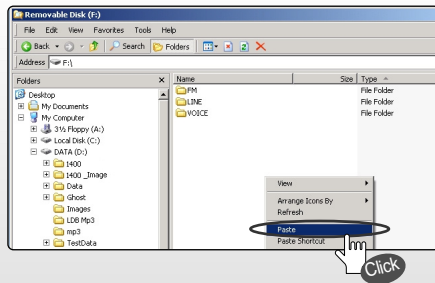
1. To download files connect USB cable, select your file and right click on "Copy".



## Downloading/ Uploading Files

### Downloading or uploading files

2. Click on "Paste" in 'Removable Disk' window using right mouse button.



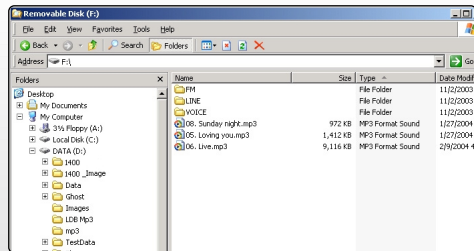
#### Note!

- Your PC will identify your cube as a removable disk under 'My Computer'.
- Do not remove the USB cable while transferring files. Doing so may cause fatal error in the PC or player.

## Downloading/ Uploading Files

### Downloading or uploading files

3. Downloading selected files to your player is complete.



#### Note!

- Reverse steps 1 to 3 to upload files from the unit to your PC.
- You can also drag & drop to download/upload files.

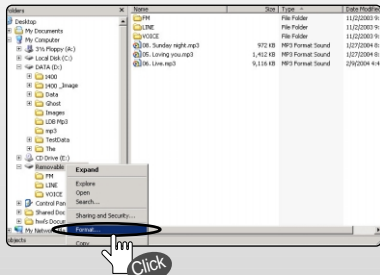
# Format

## Format

### Note!

- Deleted files cannot be recovered after the device has been formatted!

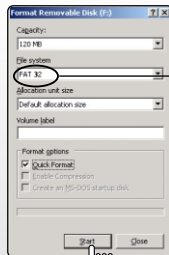
1. Select "Format" by right clicking on the 'removable disk' folder in PC Windows.



# Format

## Format

2. Click on "Start" when the format window pops up.



Check if file system is set for FAT32

Be very careful at format!



3. Formatting completed.



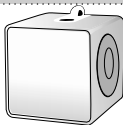


MEMO

7



# Support



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## Troubleshooting

### Troubleshooting

#### 1. Unit will not turn ON?



- Check the battery capacity.
- Recharge the battery with USB cable.
- Check to see if the unit is on HOLD.

#### 2. Buttons are not working?



- Check to see if the unit is in Hold Mode.

## Troubleshooting

### Troubleshooting

#### 3. Files are heard with a lot of interference?



- Ensure that earphones are inserted securely into the unit.
- Check your volume setting.
- Electronics in the immediate environment may be interfering with unit functioning.

#### 4. Too much noise with interrupted FM receiving?

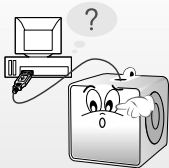


- Ensure that earphones are inserted securely into the unit.
- Electronics in the immediate environment may be interfering with unit functioning.

# Troubleshooting

## Troubleshooting

### 5. Problems downloading files?



- Check USB cable connection.
- Check available memory capacity.

### 6. LCD is not activated?



- Check LCD brightness setting (Menu> Display> Contrast).
- Check the battery. Recharge it with a USB cable if needed.

## FCC RF INTERFERENCE STATEMENT

### Note

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures.

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio, TV technician for help.
- Only a shielded interface cable should be used.

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

### CAUTION

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

THIS DEVICE COMPLIES WITH PART 15 OF THE FCC RULES. OPERATION IS SUBJECT TO THE FOLLOWING TWO CONDITIONS: (1) THIS DEVICE MAY NOT CAUSE HARMFUL INTERFERENCE, AND (2) THIS DEVICE MUST ACCEPT ANY INTERFERENCE RECEIVED INCLUDING INTERFERENCE THAT MAY CAUSE UNDESIRABLE OPERATION.

# Warranty Card

Product Name: .....

Model: .....

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

Name of Customer .....

Telephone Number: .....

Address: .....

Name of Agent: .....

Telephone Number: .....

Address: .....

1 year from the  
date of purchase



Hyun Won Inc.

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

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

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