

Digital Audio Player

User's Manual



FCC Information

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 interface, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

Note: This equipment has been tested and found to comply with the limits for CLASS B digital device, pursuant to Part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. 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 correct the interference by one or more of the following measures:

- 1.1. Reorient or relocate the receiving antenna.
- 1.2. Increase the separation between the equipment and receiver.
- 1.3. Connect the equipment into an outlet on a circuit different from that to which receiver is connected.
- 1.4. Consult the dealer or experienced radio/TV technician for help.

WARNING

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



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Features

* MP3 & WMA Playback

MP3 is an MPEG1 Layer3 audio format.

WMA is a Microsoft Windows Media audio format.

* FM Reception

Listening to an FM program is made easy with Auto Search function.

* Featuring an Encoding Function

You can make a MP3 file out of a source using the Line In jack on the main unit. You can also convert an FM radio program into an MP3 file in real time.

* Sound

You can adjust equalizer manually.

* Voice Recording Function

You can do a Voice Recording with high quality and use it for a conference.

* Removable Storage Device

You can easily copy and paste files to the unit player using Windows Explorer.

* Upgradable

You can upgrade the built-in programs when available.

(Add or change function, etc.)

Please ask the Distributor for upgrades.

* Support Dual Earphone

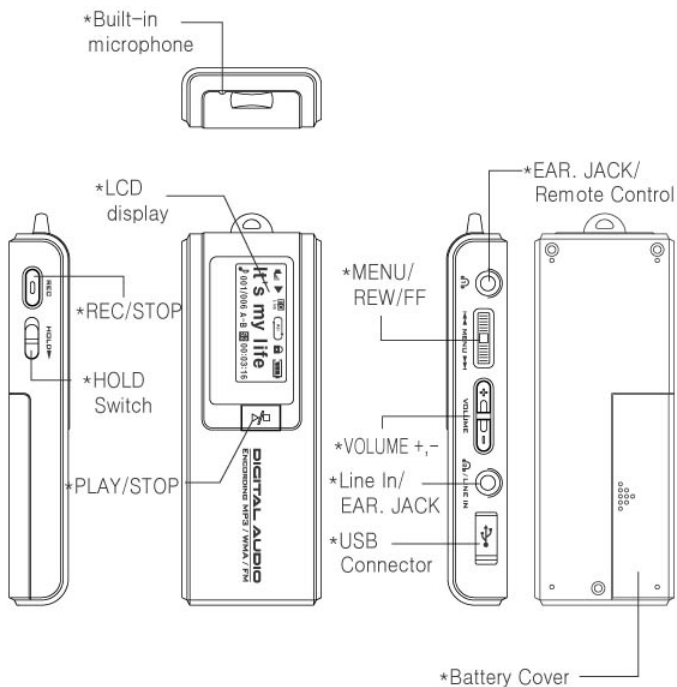
You can connect earphone to the Line In jack when not using Encoding function.

* Support 7 Color LED Backlit

You can select the backlit color among 7 colors.

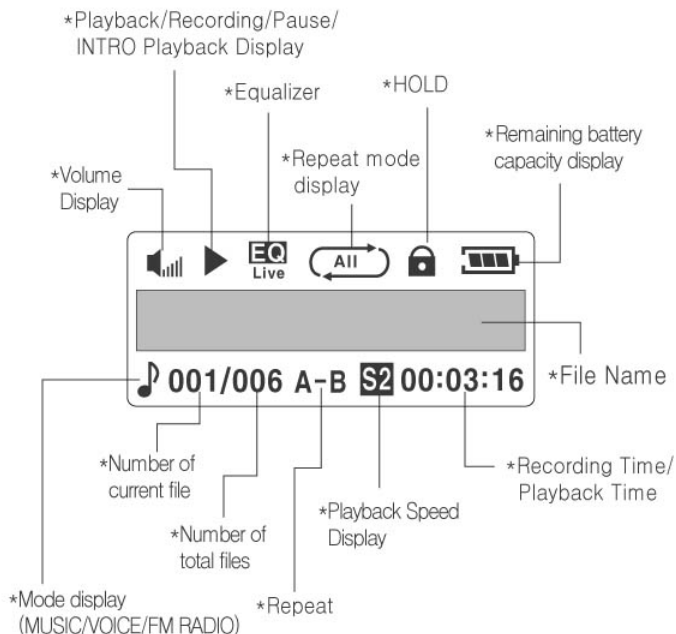


Name of each part





Name of each part





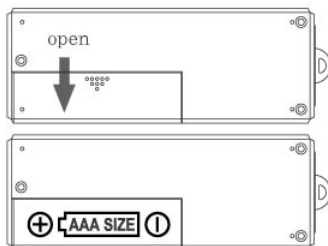
Preparation for operating

* Inserting a Battery

Inserting or changing of the battery should be done when unit is off.

Slide the cover in the direction of the arrow to open.

Insert a battery to the right poles and push-close the cover.



Fully charged



A little decreased



A large amount decreased



Replace the Battery

(Battery : AAA, LR03 or UM-4 or equivalent)

*Battery life time

Battery	at recording mode	at earphone playback
"AAA" Alkaline	for about 6 hrs	for about 8 hrs



Preparation for operating

* Power ON

Set HOLD to the OFF and press the PLAY/STOP button for 2 second.

The unit will then power on.

* Power OFF

Press the PLAY/STOP button for 2 second when the unit power on state.

The unit will then power off.

*Note :

- The unit will automatically Turn OFF when no operating for 1 minute.
- You can also turn off the power by pressing the PLAY/STOP button.

* HOLD Function

Under Hold mode, buttons will not work.

Slide the HOLD switch on the player in the direction of the arrow.

When a button is pressed, "HOLD" message will appears on the display.



Description of button in Voice Recorder

Button	Operation	When Stop	Playing	Recording	Using FM RADIO
PLAY/STOP 	SHORT	Selected file playback Exit from MENU	Stop playback	Pause	Frequency search mode
	LONG	Power OFF	Power OFF	Power OFF	Power OFF
FF/REW 	SHORT	File search MENU search YES/NO, ON/OFF select	File search		Frequency search for stored, MENU search, YES/NO, ON/OFF select,
	LONG	Fast file search	Fast forward or rewind in playing		Frequency auto search
MENU 	SHORT	Enter MENU mode, MENU setup	Change EQ mode		Enter MENU mode, MENU setup
	LONG		A<->B Repeat		Enter channel save mode, Channel save
VOLUME+/- 		Volume up/down MENU search	Volume up/down		Volume up/down
REC 		Start recording or encoding	Setup A<->B Repeat	Stop recording or encoding	Start or stop radio program
EQ (Only Remote)	SHORT		Change EQ mode		
	LONG	FM RADIO ON	Change repeat mode		MUSIC Player ON
STOP (Only Remote)		Exit from Menu mode	Stop Playback	Stop Recording	Exit from Menu mode

*Note :

- LONG: Longer than 1 second, Short : Less than 1 second.
- The EQ and STOP buttons are only located on Remote control.



Operating MP3

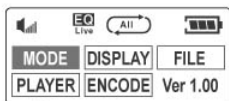
Setting up MENU

1. To switch to Menu Mode, Press the MENU button While in Music/Voice mode, and then enter the Main Menu.
2. Slide the FF or REW button briefly to select the menu you want.
3. To exit from Menu Mode, press the PLAY/STOP button or wait 5 seconds.

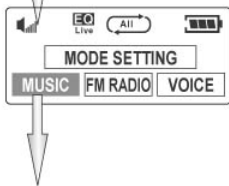
Function & Structure of MENU

- * **MODE MENU** : Press the MENU button one more time in the Main Menu, and then enter the Sub Menu.

You can select Music Player, FM Radio or Voice Recorder by using FF/REW and MENU buttons.

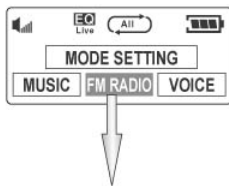


Press the MENU button.



Press the MENU button.

Slide the
FF/REW button

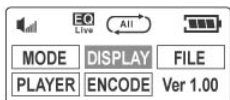


Press the MENU button.

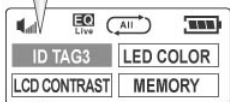


Operating MP3

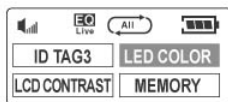
* **DISPLAY MENU** : You can setting up ID TAG3, LED COLOR and LCD CONTRAST. Also, you can see the total memory size and remained memory size.



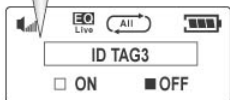
Press the MENU button.



Slide the
FF/REW button

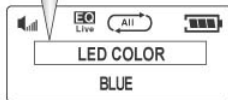


Press the MENU button.



Select the "ON" by using the FF or REW button and press the MENU button.

Press the MENU button.



Select the color by using the FF or REW button and press the MENU button.

ID TAG3 Setting up ID TAG3

ID TAG3 ON : Display song name

ID TAG3 OFF : Display Filename

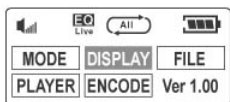
LED COLOR Setting up LED COLOR

Change the LED color as below order.

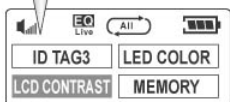
RED->GREEN->YELLOW->BLUE->MAGENTA->
CYAN->WHITE->OFF



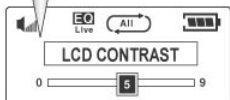
Operating MP3



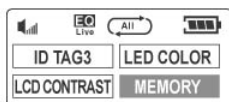
Press the MENU button.



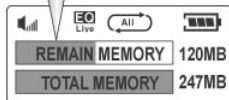
Press the MENU button.



Slide the
MENU button



Press the MENU button.



LCD CONTRAST Setting up LCD CONTRAST

Set the LCD contrast you want by using FF or REW button.

The setting range of the contrast, which adjusts the brightness of the screen, is 0 to 9.

MEMORY Verify the total and remain memory size

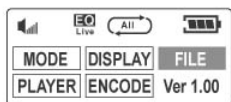
TOTAL MEMORY : Built-in memory size

REMAIN MEMORY : Just now available memory size

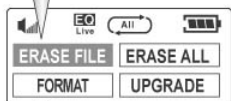


Operating MP3

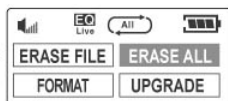
* FILE MENU : You can select file delete, format and font & firmware upgrade function.



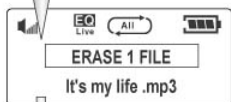
Press the MENU button.



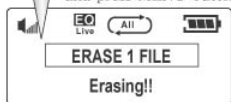
Slide the
MENU button



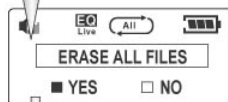
Press the MENU button.



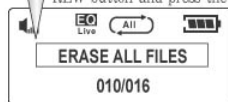
Select the file you want delete
and press MENU button



Press the MENU button.



Select the "YES" by using the FF or
REW button and press the MENU button

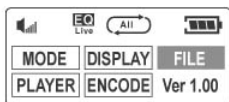


ERASE FILE Delete one file

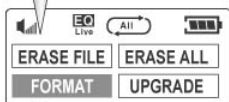
ERASE ALL Delete all files



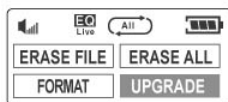
Operating MP3



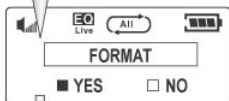
Press the MENU button.



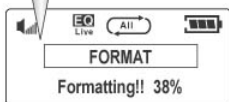
Slide the
MENU button



Press the MENU button.



Select the "YES" by using FF or REW button and press the MENU button.



FORMAT Formatting

All files will be deleted when formatting the built-in memory.

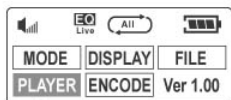
UPGRADE Firmware upgrade & Font download

Download the latest Firmware and display font from distributor's homepage
(refer to "Firmware upgrade & Font download")



Operating MP3

* **PLAYER MENU** : You can select **INTRO PLAY**, Playback Speed Control, **REPEAT** and **EQUALIZER**.



Press the MENU button.



Slide the
MENU button



Press the MENU button.



Select the "YES" by using FF or REW button and press the MENU button.

Press the MENU button.



Select the "playback speed you want by using the FF or REW button.

INTRO PLAY INTRO Playback

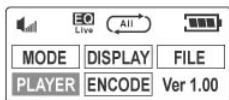
Each file is playback for 10 second.

PLAY SPEED Setting up Playback Speed

The setting range of the playback speed, which adjusts the speed of the playback, is 5 steps.



Operating MP3



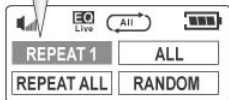
Press the MENU button.



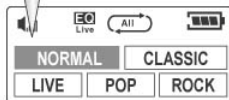
Slide the
MENU button



Press the MENU button.



Press the MENU button.



REPEAT Setting up Track Repeating

Select the Repeating mode you want by using the FF or REW button.

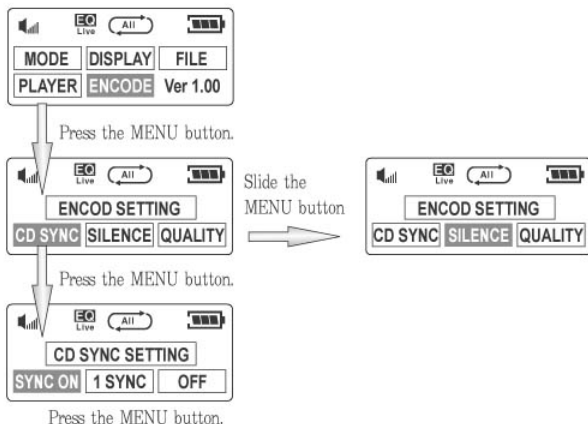
EQUALIZER Setting up EQ

Select the EQ mode you want by using the FF or REW button.



Operating MP3

* **ENCODE MENU** : You can setting up CD SYNC, Encoding quality and SYNC sensitivity.



CD SYNC Setting up CD SYNC

Select the CD SYNC you want by using the FF or REW button.

- * **SYNC ON** : Automatically creates a file for each track.
- * **SYNC 1** : Automatically creates a file for only one track.
- * **OFF** : All songs recorded in ENC mode are saved in a single file.

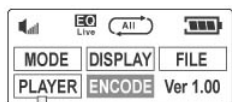
* What is CD Sync?

CD Sync senses the input sound during MP3 encoding. If there is no sound, encoding stops automatically. Otherwise, encoding keeps going. You can save MP3 files separately.

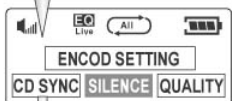
Example) If you encode a CD including 10 music files with MP3, 10 MP3 files are created automatically when set the CD Sync to ON.



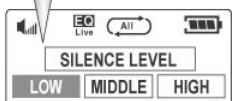
Operating MP3



Press the MENU button.

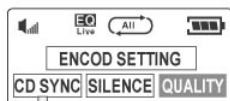


Press the MENU button.

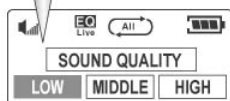


Press the MENU button.

Slide the
MENU button



Press the MENU button.



Press the MENU button.

SILENCE Setting up SYNC Sensitivity

- * LOW : When use high noise or volume audio source
- * MIDDLE : When use normally
- * HIGH : When use low noise audio source

QUALITY Setting up Sound Quality

- * LOW : Sampling freq. - 32Khz, Bitrate - 96Kbps
- * MIDDLE : Sampling freq. - 44.1Khz, Bitrate - 128Kbps
- * HIGH : Sampling freq. - 44.1Khz, Bitrate - 196Kbps



Operating MP3

Listening to Music

First, insert the battery and connect the earphones to the player

1. Turn on the power by pressing the PLAY/STOP button.
2. Select the music file you want by using the FF or REW button.
3. When you press the PLAY/STOP button, the music file is played.
4. When you press the PLAY/STOP button while playing the music stops.

* Select the EQ

While playing music files, press the MENU button briefly. When pressed the button, EQ mode will be changed as below order.

NORMAL → CLASSIC → LIVE → POP → ROCK

* Setting up Repeat Mode

While playing music files, press the MENU button over 2 second. When pressed the button, repeat mode will be changed MENU button as below order.

 → **All** →  → **RD**

-  : To repeat one track
- All** : To play all the tracks in order one time
-  : To repeat all tracks
- RD** : To play tracks at random



Operating MP3

* Setting up Loop Repeating

1. Starting Point

While playing music files, press the REC button briefly at the beginning of the loop you want to set. A-B icon will be blinking.

2. Ending Point

Press the REC button briefly again to set the end of the loop.

A<->B icon appears in the display.

The loop is played repeatedly.

*Note :

- Press the REC button briefly to cancel the loop.
- Loop Repeat is automatically released if you slide search button.



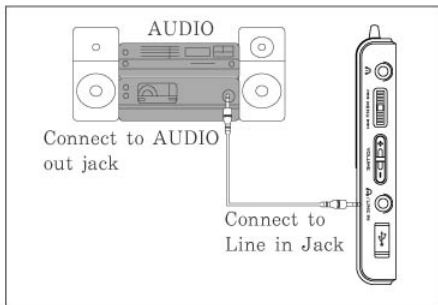
Operating MP3

MP3 ENCODING

1. Connect the Audio Output port on the external audio source (or the Line Out Port) to the LINE IN jack on the device with the Line cable.
2. Setting up the Quality, CD SYNC and SYNC Sensitivity in Encode Menu.
3. Press the REC button.
4. To pause during Encoding, press the PLAY/STOP button.
5. Press the button once again to recommence recording.
6. Press the REC button while recording to stop the encoding, and a new encoding file will be created.

* Notice :

- Do not disconnect the Line cable during Encoding
- If the battery is not charged enough, encoding will not be done
- Adjust the volume of the external audio source to a suitable level and encode it
- If the volume level is extremely high, the sound quality may not be good





FM RADIO

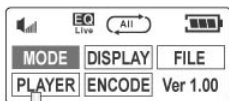
While the player is stopped, select FM mode by using the MENU button.

Function & Structure of MENU

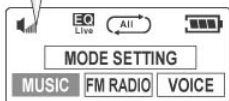
* **MODE MENU** : Select MUSIC, FM RADIO, VOICE Mode

Select the Mode you want by using FF or REW button.

And then press the MENU button, you want mode will be selected.



Press the MENU button.



Slide the
MENU button



Press the MENU button

SEARCH Automatic Storage of a Frequency

Frequencies within the range of 88MHz to 108MHz are automatically selected and stored.

* Note : You can store up to 10 frequencies.

DELETE Delete a Stored Frequency

You can delete a stored frequency 1 to 10.



FM RADIO

Listening to FM Radio

* Listening to FM Radio

1. Slide the FF or REW button briefly to find the frequency you want.
2. To move to the next or previous channel, slide the FF or REW button for 3 second.
3. Press the PLAY/STOP button briefly while in FM Mode.
And then will be displayed ch 1 frequency and the stored frequencies are successively searched by using FF or REW button.

* Manual Storage of a Frequency (Number of channels : Ch1~Ch10)

1. Select the frequency you want by using FF or REW button.
2. Press the MENU button for 3 second, and then will be displayed  1 on the screen.
3. Select the channel number you want by using FF or REW button and press the MENU button once again to store the frequency.

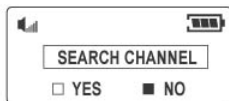
* Automatic Storage of a Frequency

1. Press the MENU button while in FM mode and select SEARCH by using FF or REW button.
Press the MENU button again.
2. Select YES by using FF or REW button and press the MENU button.
3. Frequencies within the range of 88.0 MHz to 108.0 MHz are automatically selected and stored.



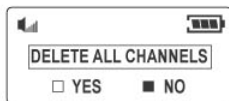
FM RADIO

4. Frequencies are automatically stored, starting from ch 1.



* Delete a Stored Frequency

1. Press the MENU button while in FM mode and select DELETE by using FF or REW button.
Press the MENU button again.
2. Select YES by using FF or REW button and press the MENU button.
3. If delete a stored frequency, will be displayed 88.0 MHz on the screen.



* FM Encoding

1. Press the REC button during in FM Mode that will be started encoding.
2. To stop the encoding, press the REC button again.
And then a file is created and move to VOICE mode.

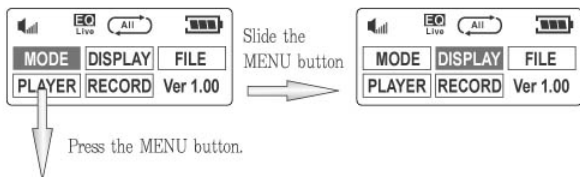


Operating Recorder

You can select Voice Mode by using FF/REW and MENU buttons while in MUSIC mode or FM RADIO.
(refer to "Setting up MENU")

Function & Structure of MENU

* MAIN MENU



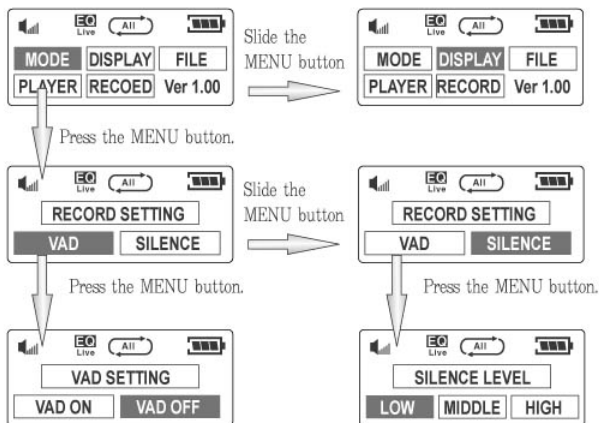
* SUB MENU





Operating Recorder

* RECODE MENU : Setting up VAD and VAD sensitivity



VAD Setting up VAD

SILENCE Setting up VAD sensitivity

- * **LOW** : When use high noise or volume audio source
- * **MIDDLE** : When use normally
- * **HIGH** : When use low noise audio source



Operating Recorder

* Recording Voice

1. Press the REC button to begin voice recording while in Voice Mode.
2. To stop the recording, press the REC button again and a new voice file will be created.

* Note :

- If the memory is full, the Voice Recording is stopped automatically.
- The Voice Recording is also enabled in Music Mode.
- To record voice, be sure nothing is connected to the LINE IN jack.
- Voice recording does not work in FM Mode or When the Line cable is connected.

* Listening to Voice

First, insert the battery and connect the earphones to the player

1. Turn on the power by pressing the PLAY/STOP button.
2. Select the voice file you want by using the FF or REW button.
3. When you press the PLAY/STOP button, the music file is played.
4. When you press the PLAY/STOP button while playing the music stops.

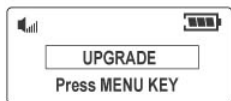


Firmware Upgrade & Font Download

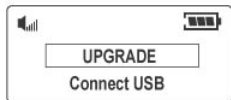
Firmware Upgrade & Font Download

First, you will have to install the Upgrade program on your PC. Download the latest Firmware from distributor's homepage. Install the latest Firmware program on your PC.

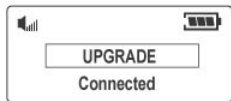
1. Press the MENU button while in MUSIC or VOICE Mode and select ENCODE or RECORD by using FF or REW button. Press the MENU button again and select **UPGRADE** by using FF or REW button. Press the MENU button once again.



2. Press the MENU button once again and then will be displayed "Connect USB" on the screen.

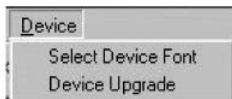


3. Connect to the USB port on your PC using the USB cable or adaptor.
4. "Connected" message is displayed on the screen and run the "Manager PLUS" on your PC.





Firmware Upgrade & Font 다운로드



5. After completing the file transmission, you must disconnect the USB cable and power off by using PLAY/STOP button.

<New Font Download >

Device -> Select Device Font

<New Firmware Upgrade>

Device -> Device Upgrade

Using the removable storage

1. Turn on the unit and connect to PC
2. Open Windows Explorer on PC
3. Select the file to save and drag-and-drop it into the removable disk icon.

*Notice :

The "Don't Remove USB" message will appear during file download or upload. Disconnecting the USB cable while "Don't Remove USB" is displayed may cause malfunction of the unit.



Manager PLUE installation manual

* Installation of Manager PLUS

Before connecting to PC, make sure to install Manager Plus on your PC.

• System Requirement

Pentium 133MHz or greater

Windows 98 SE/ME/2000/XP

20MB of available hard disk space

CD-ROM drive

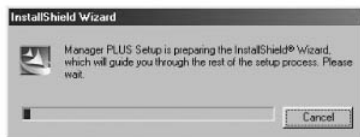
USB port(1.1) supported

*Note :

- Windows ME, 2000 and XP can recognize the driver without installing the provided program. However, you must install the program in order to format and upgrade.
- If the Manager program has not been installed in windows 98, then it will not communicate with your removable disk.
- You must install the USB driver file first.

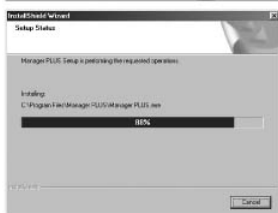
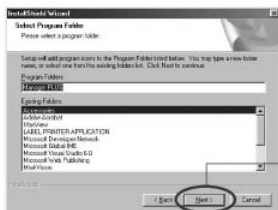
• Installing software

Insert the Installation CD into CD-ROM drive. The picture shown below appears. The installation window should then appear.





Manager PLUE installation manual



*Please, wait till
the installation is
completed.

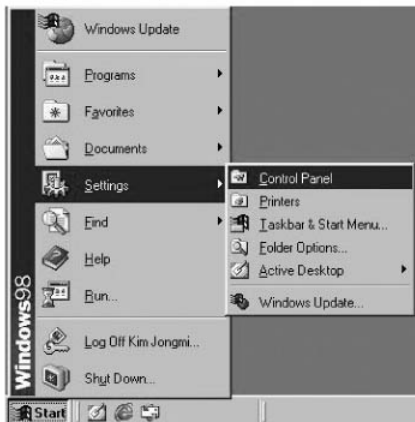


Manager PLUE installation manual



*Installation is finished,
and the short-cut icon
appears on the desktop.

- To remove Sky Manager
Click Start → Settings → Control Panel →
Program Add/Deletion.

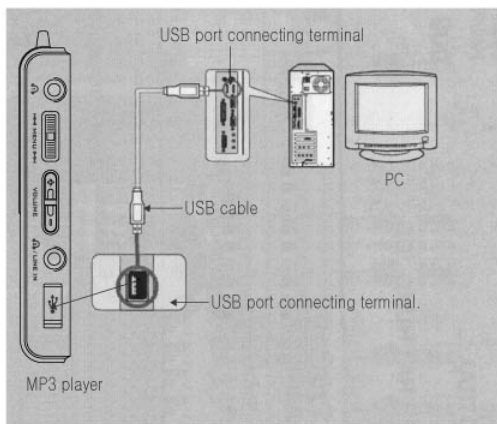




Manager PLUE installation manual

* Connecting to PC with USB cable

Plug one end of the USB cable into the USB port on the PC.
The unit will automatically turn on.



Connect the opposite end of the USB cable to the USB cable port on the left side of the unit.

USB driver is installed with a message saying that it is searching for a new device. You may not see the display screen during installation.

Go to the device manager to check that installation has been successfully completed.

When USB driver is not installed automatically, refer to next description.

(Follow these steps if the USB driver is not in place)



Manager PLUS

Check the device manager.

*Windows 98, ME :

Control panel → System → Device Manager

*Windows 2000 :

Control panel → System → Hardware → Device Manager

*Windows XP :

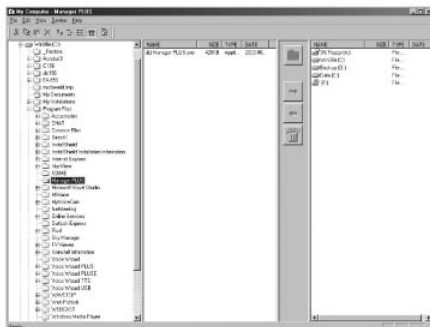
Control panel → System → Hardware → Device Manager

Check if there is a device listed with an exclamation point or a question mark (displayed as unknown device or USB device)
Click on the device listed with an exclamation point or a question mark

And then delete and re-connect.

*Note :

- The installation method may vary depending on the type of PC or operating system.
- Contact your PC dealer or service center for installation information.
- If errors occur continuously when you install the USB driver, reconnect the USB cable after rebooting your system.





Cautions

* Cautions in Operating

1. Do not place the product at the following condition and/or places :
 - Where it is full of high temperature above 60 degrees.
 - At a dusty place.
 - Near the heaters or any type of heat sources.
 - In a car with windows closed, especially in summer.
 - At a heavy damp place like a bathroom
2. Any excessive force on the LCD display could cause damages to it and to over all LCD functions.
3. A magnetic card such as a credit card or subway communication ticket may not be working any longer once it is placed on or close to the speaker.
4. The seller holds no liability for any damages caused by misuse of the product and any claims from the third party.
5. The seller holds no liability for any lost messages which are caused by repair or any other troubles.

* Cautions in Using Battery

1. Do not have a short circuit, disassemble, heat or put battery in the fire. and do harm to your eyes, also could cause fever and the rupture a doctor.
2. Do not use different kind of battery.
3. Take the battery off when you don't use for a long time.

* Cautions for Safety

1. Take battery off when there are malfunction caused by smoke and heat.
2. Do not use in the place where electronic product's operation is prohibited like inside of airplane.
3. Do not use in driving and walking, since any accident could be happened.



Specification

* For improvement of product, specifications & design can be changed without previous notice

ITEM		SPECIFICATION	
Model Number		IMP-4128	IMP-4256
Max. Recording Time		17 Hours	34 Hours
Memory		128 MB	256 MB
FM Radio	Frequency Range	88MHz ~ 108 MHz	
	Audio Output	(L)10mW + (R) 10mW (16 Ohm) Max. Volume	
	S/N Ratio	55 dB	
	Antena	Earphone Antena	
Audio Format	Format	MPEG 1/2/2.5 Layer 3, WMA, ASF	
	Bit Rate	8 Kbps ~ 320 Kbps	
	Tag Info	ID3 V1, ID3 V2 2.0, ID3 V2 3.0, ID3 V2 4.0	
LCD		Full Graphic with 7 Color LED Backlight	
Max. Output Power		(L)10mW + (R) 10mW (16 Ohm) Max. Volume	
Input		Built in MIC & Mono Jack	
Output		Built in Speaker & Stereo Jack	
Dimensions		33(W) x 88.3(H) x 14(D)mm	
Weight		30g (without battery)	
Memory Medium		Built in Flash Memory	
Power Source		1.5V, "AAA"alkaline	
Battery Life Time		Recording : 6hrs/ Playback : 8hrs	
Condition to use		0°C~40°C	
Optional Accessory		User's Manual, Earphone, 1AAA battery,USB Cable, Installation CD, Necklace strap, USB adaptor(Option),Remote Control(Option)	