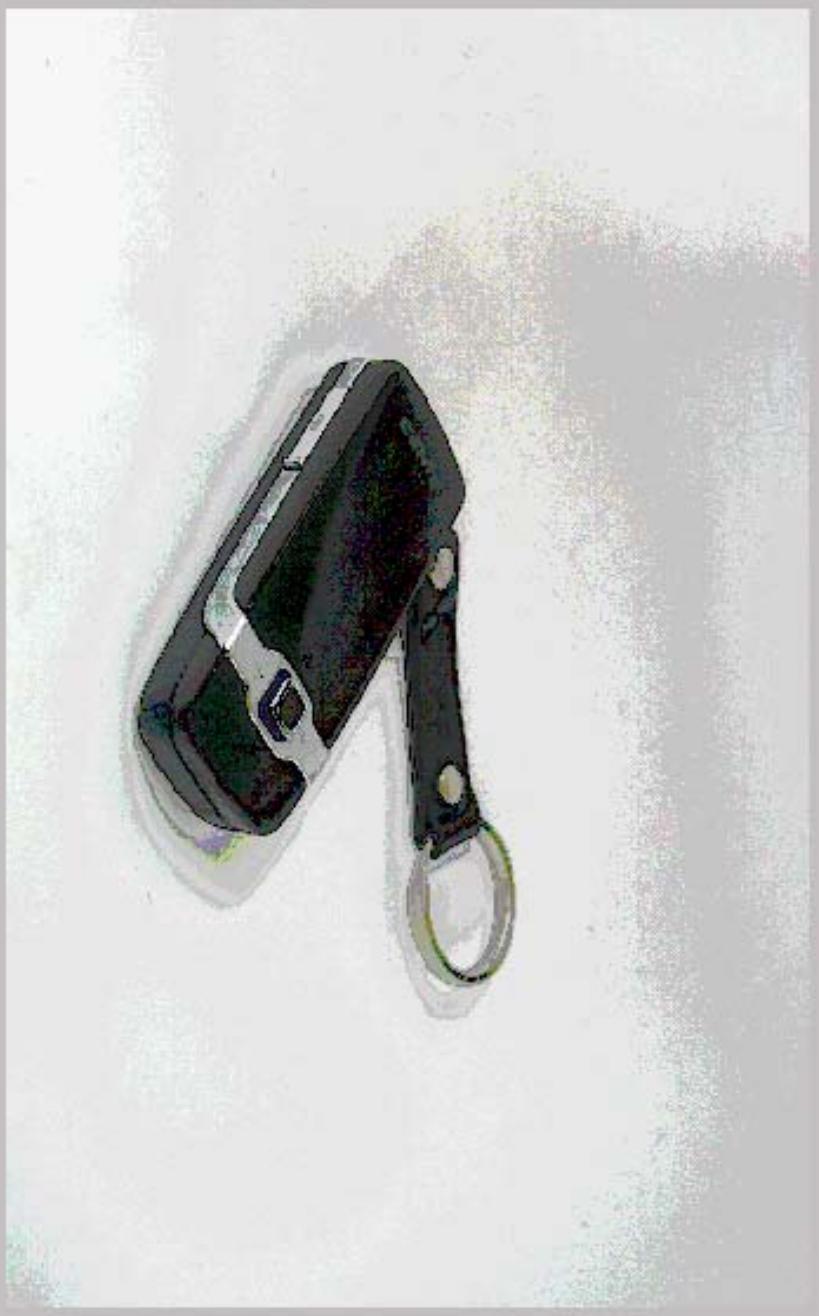


MP-510 Series User Manual



MP-510 Series User Manual

Greetings

Welcome to the digital world

Thank you for purchasing Cenix's MP-510

This user manual is provided to improve customer convenience in using the product.

Customer inquiries on Technovas and the product are fully supported if related information is available.

Continuous product improvements are available through firmware and software upgrades.

Register as a customer to receive online service, new product information,

firmware upgrades and other matters via email.

MP-510 Series User Manual

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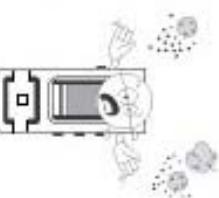
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Safety Precautions



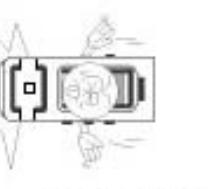
Protect the product from high humidity, dirt and dust, and direct sunlight.



Do not let the product come into contact with chemicals such as benzene or paint thinner etc.



Do not try to dismantle, repair, or modify the product.



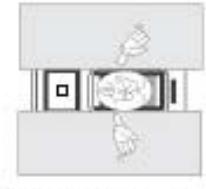
Do not apply excessive force to or place any heavy object on the product.



Do not press two buttons simultaneously, or use excessive force.



Be aware that if you fall with the player in your pocket it may cause injuries.



When using the neck strap take care that the strap does not get stuck in doors, elevators, etc.

MP-510 Series User Manual

Note for Battery and Charger



MP-510 Series User Manual

Product Characteristics

- ▼ Multi-Codec Player
Supports MP3, WMA, ASF (Music files only), WAV format digital audio files.
It also supports all bandwidths of MP3 and WMA.
- ▼ Firmware Upgrade
Supports continuous functional updates, modification, and upgrades for the player.
- ▼ Lyrics Support
Provides a Lyrics download and edit function.
*This Menu may not be supported in the country that does not support Downloading Lyric automatically on the Internet.
- ▼ Supports USB2.0 High Speed
Supports USB 2.0 interface enabling high-speed file transfer.
- ▼ 3D Sound Effect
Supports dynamic sound effects and 3D sound through SRS WOW
- ▼ Automatic folder search, Playback type function select
Playback list function enables dynamic methods for playing
- ▼ Automatic FM frequency detection
- ▼ 2 color OLED
- ▼ Supports lyrics display and ID3 Tag
- ▼ Windows Media Player Plug-in support
- ▼ GUI (Graphic User Interface) support
Supports GUI and various functions (sleep, repeat)
- ▼ Supports user EQ
- ▼ Multilingual Menu support
- ▼ Multiple language support (Unicode 2.0 Standard)

MP-510 Series User Manual

Charging with a USB Cable

Use a USB cable to connect the MP-510 to a PC and leave it connected for 90~120 minutes to completely charge the device. The LED turns on during charging and turns off again when charging is complete.

Make sure to disconnect the device from the PC after charging.



Charging with a USB Adaptor

Connect the MP-510 to the adaptor and leave it for 90~120 minutes to charge the device completely. Please disconnect after charging.

※ Caution

The Adaptor output must be 5V, 500mA~2A. Fire, explosion, or leakage may be caused if output differs from the specified values.



Re-chargeable Battery Maintenance

- ▶ The product has a built-in re-chargeable battery. Keep the product indoors.
- ▶ Dismantling the product and damaging the re-chargeable battery, or placing it near a heater may cause an explosion. Allowing any metal to make contact across the battery terminals may cause a short circuit and explosion.
- ▶ Charge the device before putting the product away for a long time. Recharge the device fully before re-use.
- ▶ Re-chargeable batteries are consumable items, and their usable life shortens with time.
- ▶ Keep the product away from children and animals since there is a danger of explosion if mishandled.

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Product Package

List of items included
MP-510 Device



Earphones



Installation CD



User Manual



USB Cable



Neck Strap



Line-cable



Optional Items
Charging Adaptor



Optional Items
Mini USB Connecting Jack



Optional Items
Arm Band



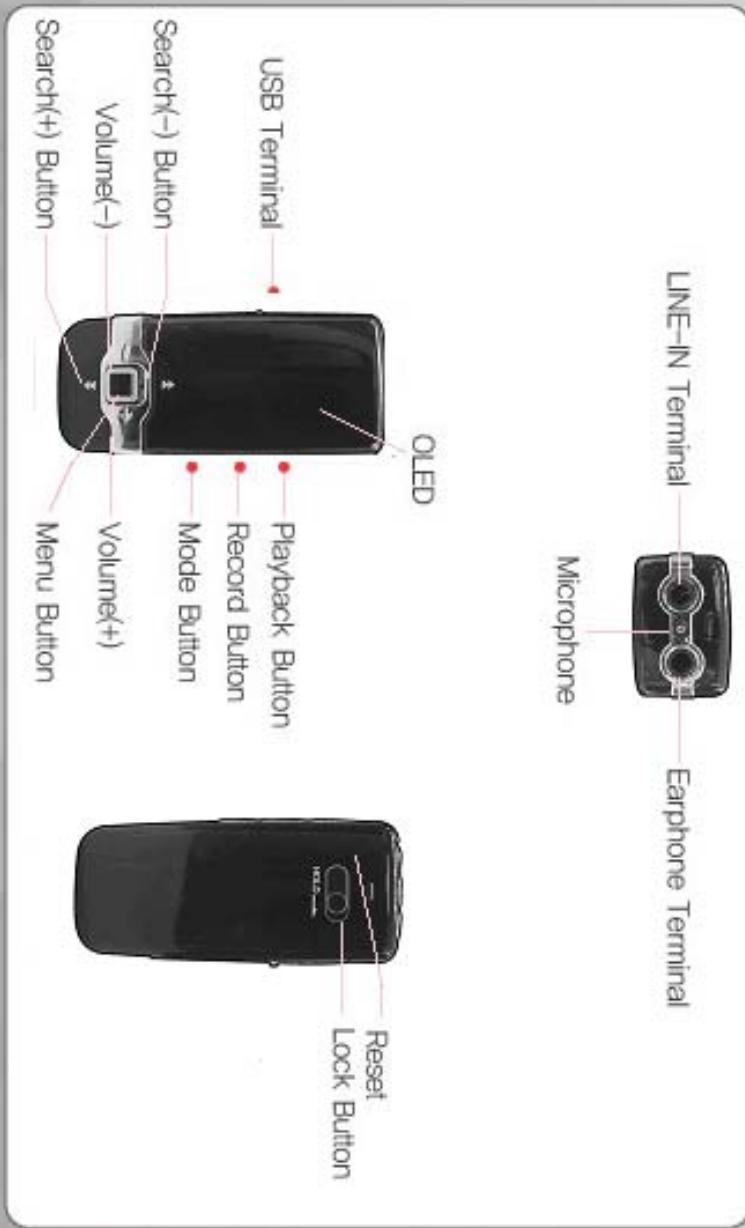
Carrying Case



MP-510 Series User Manual

Device Configuration

1) MP-510 Device Configuration



MP-510 Series User Manual

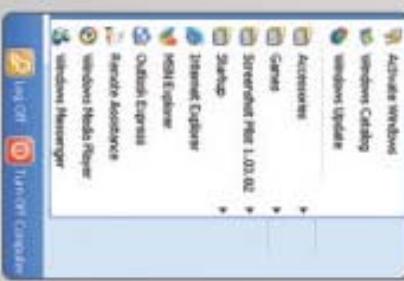
Connecting to a Computer (PC)

Note

Installation of software is required for Windows 98 before using the product with the USB drive. Update Windows when the USB drive does not operate in Windows 98/ME/2000/XP systems.

Windows Update

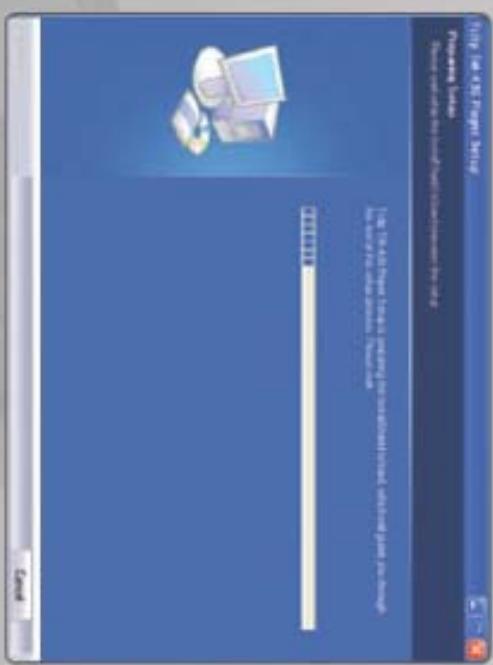
Click on the [Start]→[Windows Update] to update Windows to the latest version.



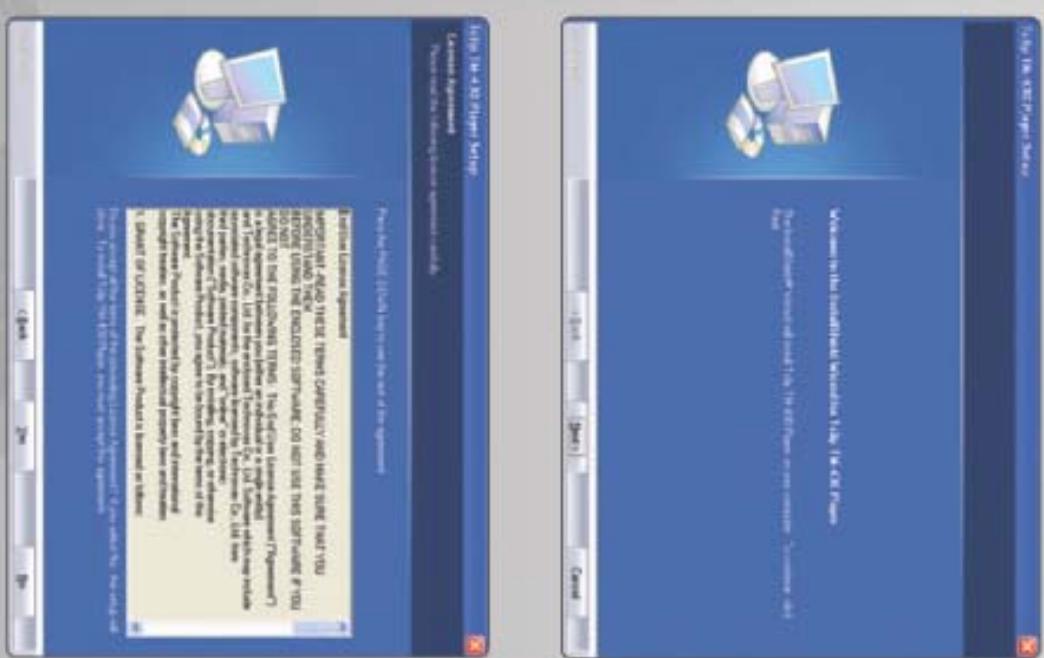
MP-510 Series User Manual

Installing MP-510 Software

Screen, as shown in the picture, appears when the downloading of latest installation software has been completed.



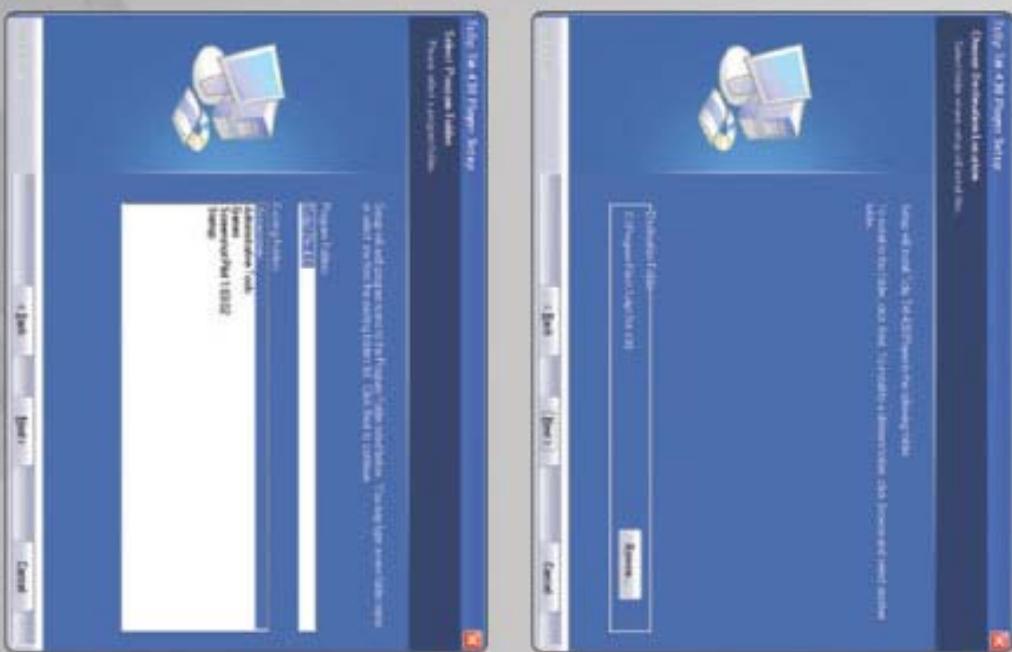
MP-510 Series User Manual



Clicking on the Next button brings up the user terms as shown below.

Click on the Yes button if the user terms are acceptable.

MP-510 Series User Manual



Designate the folder to install the program.
Click on Next.

Input the desired program name in
the program list. Click on Next.

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Please wait while the program installs.

Click on Finish when installation is complete.

※ Caution

The computer has to be re-started
after installation. (For Windows 98/ME)

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Connecting to a PC

Minimum PC Requirements

- Pentium 133MHz or above
- 30MB HDD space or more

- Windows 98/ME/2000/XP
- CD-ROM Drive

- USB port

Using USB



Open the MP-510's protective USB cover and connect the cable.

MP-510 Series User Manual

Using MP-510
(Descriptions are based on Windows XP)



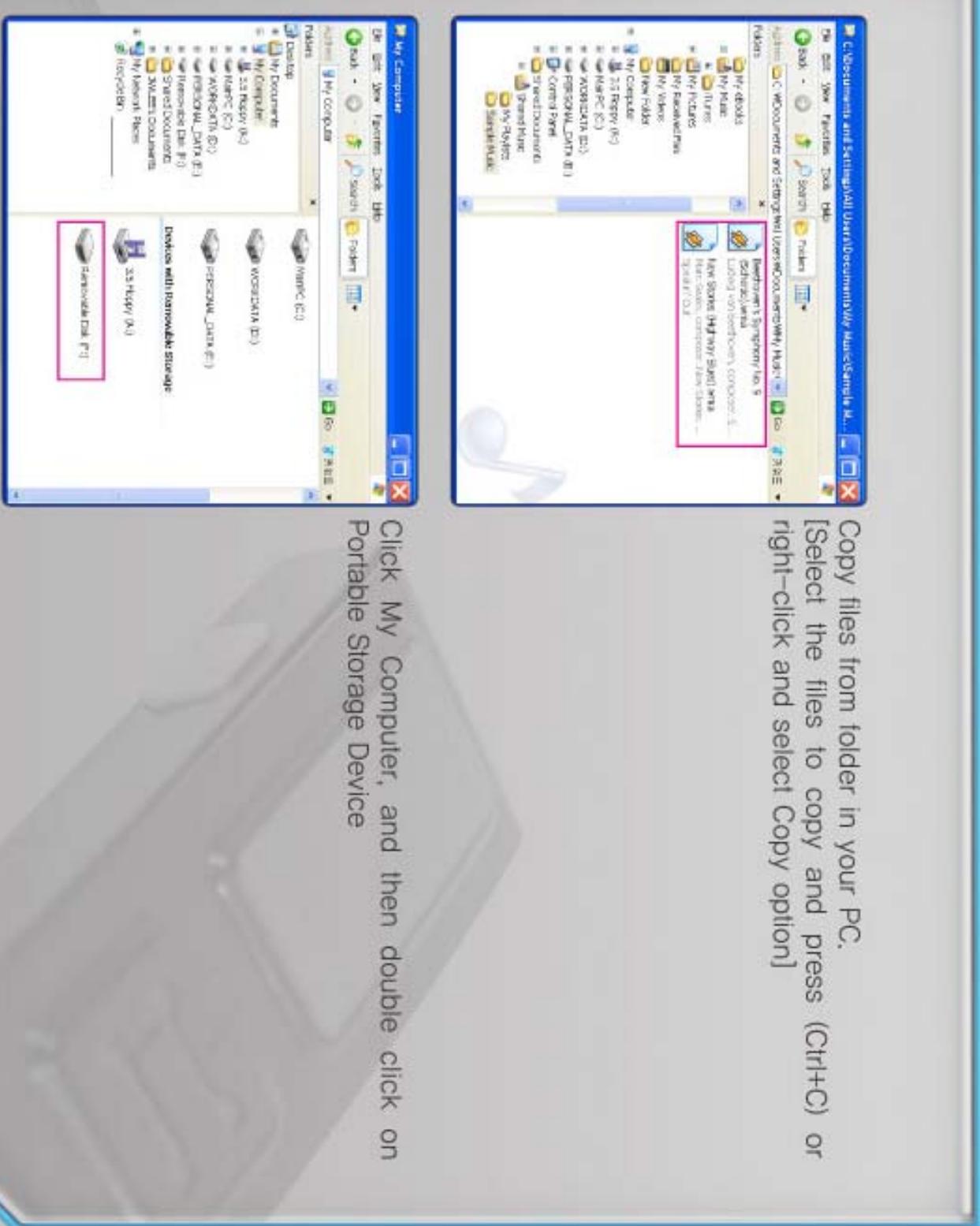
Connecting MP-510 to a computer would automatically detect it as a portable storage device and it may be used like a hard-disk drive. As shown in the above picture, a new window appears when the computer automatically detects the device. The folder in above picture is the space provided for you to store resources.

MP-510 Series User Manual



Click Start → All Programs → Accessories → Windows Explorer

MP-510 Series User Manual



Copy files from folder in your PC.

[Select the files to copy and press (Ctrl+C) or right-click and select Copy option]

Click My Computer, and then double click on Portable Storage Device

MP-510 Series User Manual



Verify that files stored in your PC have been safely copied to the portable device.



Create folder within the portable storage disk
Right-click on the mouse and then select New
Folder option

Change to a desired file name ->

Double click on the created file to open folder

Press (Ctrl +V) or right-click to select Paste option.

MP-510 Series User Manual

Removing the MP-510 Safely

For Windows ME/2000/XP Users

Select and click on "Remove USB Drive" in the System Tray. A message appears on the screen informing the user that it has been safely removed. Then remove the MP-510



For Windows 98 Users

Close all MP-510 related windows.

Data is still in transfer if the blinks on the LCD screen. Remove the MP-510 when data transfer is complete and the no longer blinks.



MP-510 Series User Manual

Formatting the MP-510

Use the following method to delete all the contents of the MP-510

※ Caution

Back-up important data before formatting. Data cannot be recovered after formatting.



Press [Start(S)] to run Format.



Note – Selecting NTFS for the file system will not operate format accurately.
The type of setting is not required in Windows 98.

MP-510 Series User Manual

Using the MP-510

Please bear the following information in mind in order to use the 'MP-510' efficiently.

1. Place non music files in the Data folder.
=> MP-510 searches through all files except for files in the Data folder during booting.
Therefore a large number of files would slow down the booting process.
2. Numbering the songs (entering numbers in front of the song file) enables the user to listen to the songs in order.
=> It is convenient to playback and manage files if song files are numbered 01, 02, 03, etc. in front of the song file.

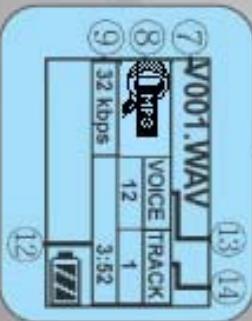


OLED Screen By Each Mode

MUSIC Stop Mode



VOICE Playback Mode



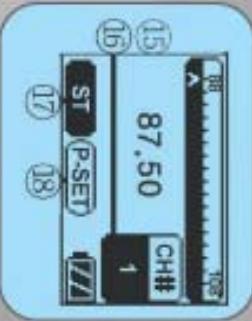
MUSIC Playback Mode



VOICE Stop Mode



FM SEEK Mode



FM PRESET Mode



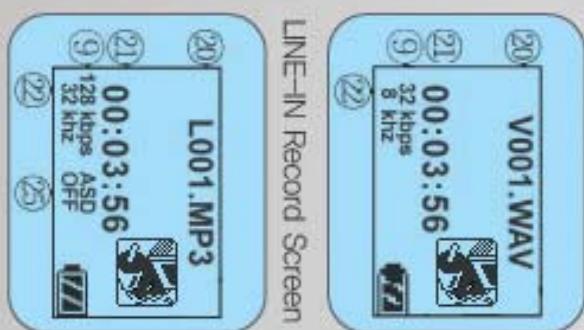
MP-510 Series User Manual

No	Description	No	Description
1	Folder	2	Mp3/WMA/WAV/OGG
3	Mode/Playback method	4	Repeat method
5	Button lock	6	Battery method
7	Floating song	8	Mp3/WMA/WAV/OGG
9	Beat Rate	10	EQ/VSRS/WOW
11	Repeat section	12	Playing time
13	Mode/Playback method	14	Owner track
15	Current frequency	16	Store channel
17	MONO/STEREO	18	SEEK/PRESET
19	Frequency display	20	Record file
21	Recording time	22	Sample rate
23	Recording icon	24	Pausing recording time
25	ASD	26	LINE-IN icon

VOICE Record Screen

FM Record Screen

LINE-IN Record Standby Screen



MP-510 Series User Manual

Button Description

The 'MP-510' has Stop, Playback, Recording, and FM modes etc.
The button functions in each mode are described below.

Music Stop mode

Button	Function	Press once	Press & hold
Playback button	Playback		Power off
Menu button	Open/close folder		Menu screen
Search(>>) button		Next folder(when available), Next song(when not available)	
Search(<<) button		Previous folder(when available), Previous song(when not available)	
Volume(+) button		Previous song	
Volume(-) button		Next song	
Mode button <small>(Mode key/On)</small>	Mode screen	Mode screen	
Mode button <small>(Mode key/Off)</small>	Mode screen	Mode screen	
Record button	Mark folder/file		

Music Playback mode

Button	Function	Press once	Press & hold
Playback button	Stop		Power off
Menu button	Menu screen		
Search(>>) button	Next song		Quick search
Search(<<) button	Previous song		Quick search
Volume(+) button	Increase volume		
Volume(-) button	Decrease volume		
Mode button <small>(Mode key/On)</small>	Set/Unset Section Repeat	Mode screen	
Mode button <small>(Mode key/Off)</small>	Mode screen	Mode screen	
Record button	EQ/SRS function		

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Voice Stop mode

Function	Press once	Press & hold
Button		
Playback button	Playback	Power off
Menu button	Open/close folder	Menu screen
Search(>>) button	Next folder(when available), Next song(when not available)	
Search(<<) button	Previous folder(when available), Previous song(when not available)	
Volume(+) button	Previous song	
Volume(-) button	Next song	
Mode button <small>(Mode key on)</small>	Mode screen	Mode screen
Mode button <small>(Mode key off)</small>	Mode screen	Mode screen
Record button	No function	Start recording

Voice Playback mode

Function	Press once	Press & hold
Button		
Playback button	Stop	Power off
Menu button	Menu screen	
Search(>>) button	Next song	Quick search
Search(<<) button	Previous song	Quick search
Volume(+) button	Increase volume	
Volume(-) button	Decrease volume	
Mode button <small>(Mode key on)</small>	Sel/Unsel Section Repeat	Mode screen
Mode button <small>(Mode key off)</small>	Mode screen	Mode screen
Record button	No function	Start recording

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FM Seek mode (Displays SEEK below FM)

Function	Press once	Press & hold
Button		
Playback button	Preset mode	Power off
Menu button	Increase stored channel	Menu screen
Search(>>) button	Change frequency	Search next freq.
Search(<<) button	Change frequency	Search next freq.
Volume(+) button	Increase volume	
Volume(-) button	Decrease volume	
Mode button	Mode screen	Mode screen
Record button	Save channel	Start recording

FM Preset mode (Displays P-SET below FM)

Function	Press once	Press & hold
Button		
Playback button	Seek mode	Power off
Menu button		Menu screen
Search(>>) button	Increase stored channel	
Search(<<) button	Decrease stored channel	
Volume(+) button	Increase volume	
Volume(-) button	Decrease volume	
Mode button	Mode screen	Mode screen
Record button	Auto Preset Function	Start recording

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LINE-IN mode

Function	Press once	Press & hold
Button		
Playback button	No function	Power off
Menu button	Menu screen	
Search(>>) button		
Search(<<) button	No function	
Volume(+) button	Increase volume	
Volume(-) button	Decrease volume	
Mode button	Mode screen	
Record button	No function	Start recording

During Recording

Function	Press once	Press & hold
Button		
Playback button	No function	Power off
Menu button		
Search(>>) button		
Search(<<) button	No function	
Volume(+) button		
Volume(-) button		
Mode button		
Record button	No function	Stop

MP-510 Series User Manual

Basic Function

Power on

Press the MP-510's playback button.

Power off

Press the playback button for 3 seconds.

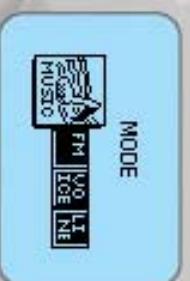


Alter mode (Music/Voice/FM/LINE-IN)

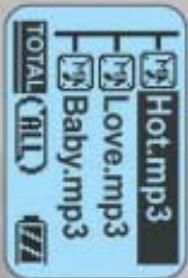
Press and hold the MP-510's mode button.

Move the cursor to the desired mode in the mode screen and press the Menu/Mode button to alter modes.

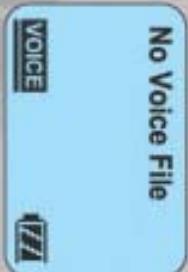
MODE



Music mode



No Voice File



87.50

CH#

1

03:08:45

320Kbps

44KHz

FM

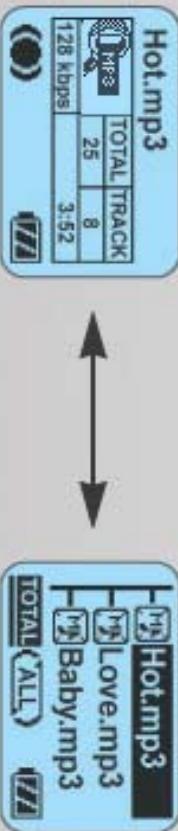
SEEK

FM

MP-510 Series User Manual

Navigation During Playback

Function to search for other songs during playback. Press the menu button during playback to bring up the navigation list. Then, select desired song and press the menu button to play the selected song. To cancel the navigation mode, press the playback button to return to the playback screen.



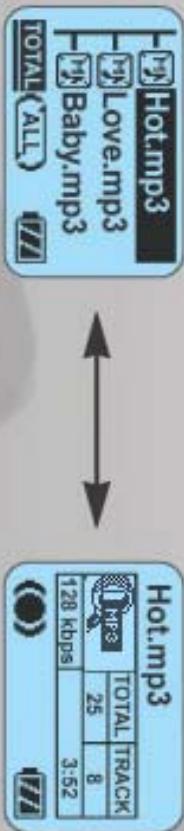
Listen to Music

Search by folder

When searching for music files, press the search button to search by folder.

Note – Moves to the next/previous music file when the folder is not available.

Playback/Stop – Press the MP-510's playback button.



Open/close folder – Press the center menu button with the cursor on the desired folder.



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Search Current Music

Press and hold the search button to search within the current music.
Holding the button longer increases the searching speed.

Change the Playing Music

Pressing the search button operates as described in the following table.

	Pressing time	Function
Search(>>) button	Before 5 seconds of playing	Plays previous song
	After 5 seconds of playing	Plays current song
Search(<<) button	Anytime	Plays next song

Section Repeat

*Select On from the Mode-Key menu to use the Section Repeat function.

Press the mode button, (marked **A**)

Press the mode button, (marked **AB**)

Press the mode button to stop Section (from A to B) Repeat.

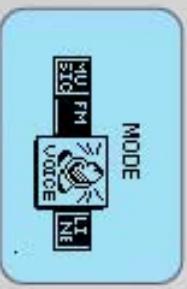


*The Section Repeat function repeats for at least 2 seconds duration.

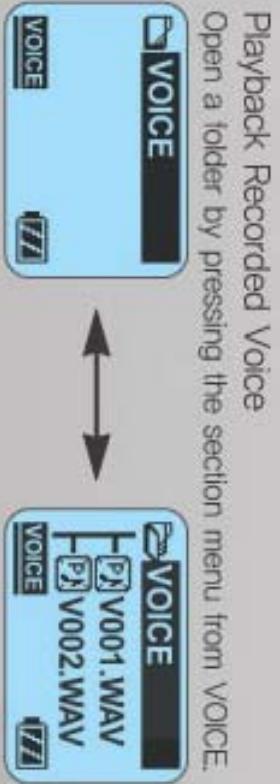
MP-510 Series User Manual

Switch To VOICE Mode

Press and hold the mode button to bring up the mode change screen.
Select VOICE from the screen.



Press and hold the record button in VOICE mode.
*Press the record button again to stop recording.



Select the desired file using the volume button and press the playback button.

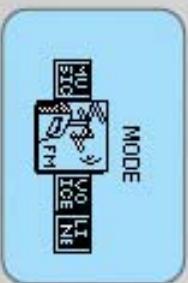


Note

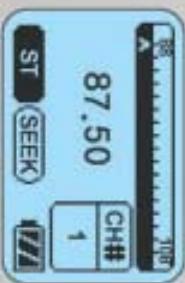
The Playback method select function and SRS functions are not available in VOICE mode.

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Switch To FM Mode



Press and hold the mode button to switch modes and listen to radio.



(SEEK) is displayed at the bottom of the LCD panel in SEEK mode.

Search Frequency

Pressing the search button moves frequencies by intervals of 100Hz.

Pressing and holding the search button automatically searches for the next available frequency.

* MONO/STEREO displayed at the bottom of the screen is determined automatically according to the signal received.

Storing a Frequency to a Channel



Pressing the menu button moves to the next channel.

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Search Stored Channel

Use the search button to search through the next/previous channels.

Automatic Channel Setting

The Automatic Channel Setting function automatically searches for 16 available frequencies and stores them as channels.



Switch to P-SET mode (Displays **P-SET** at the bottom).

- Select the channel to store the frequency and press the Record button to store.
- * Automatically becomes P-SET mode after the storing procedure is completed.

Switch to P-SET mode



Pressing the playback button from SEEK mode switches modes to P-SET mode.

- * The user can listen to the radio by searching through the stored channels in P-SET mode.

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Pressing the Record button automatically searches and stores 16 channels.
※Use the earphones when searching through FM.

Recording FM



Press and hold the record button in FM mode.
* Volume control is disabled during recording.

Playback an FM recorded file



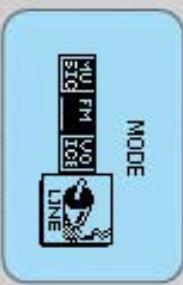
Press and hold the mode button to switch modes to VOICE mode.



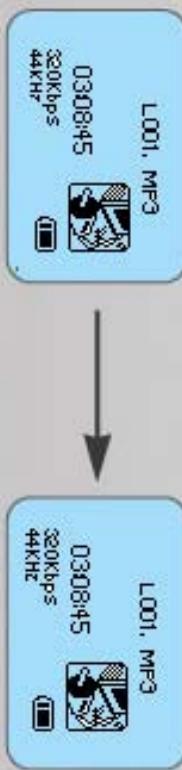
Select the desired file within the FM folder for playback.

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Switch To LINE-IN Mode



Press and hold the mode button to switch to LINE-IN mode.



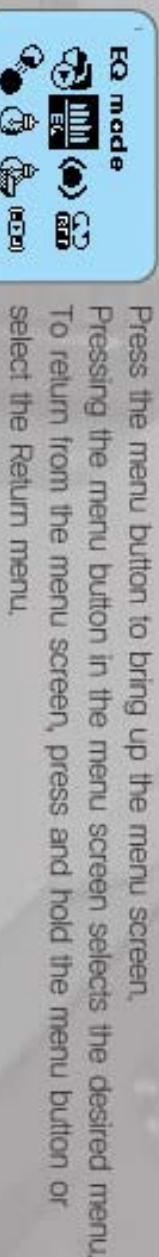
Recording Standby Screen



LINE-IN Recording Screen

Press and hold the record button in LINE-IN mode.
The recorded file is saved under the LINE-IN folder in MUSIC mode.

Menu Setting



Note

It automatically returns to the previous mode when no action is taken for 10 seconds while in the menu screen.
A different menu list is displayed for different modes (MUSIC/VOICE/FM/LINE-IN).

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Menu Function Summary

Menu	Function
playback method select	Select file list for playback
Equalizer	Equalizer setting
SRS Labs WOW	SRS WOW setting
Repeat function	Repeat function setting for music
Sharpness	OLED screen sharpness control
Light setting	OLED 'on' time setting
Button light setting	Button LED 'on' time setting
Record setting	Recording quality/sensitivity/ASD control
Scroll speed	Control the speed of text movement on screen
Power save function	Automatic turning off time when not playing
Mode-Key	Mode Button, Select A/B
Sleep function	Automatic turning off after certain period
Delete file/folder	Delete selected file/folder
Lyric support	Lyrics output setting for songs with lyrics
Music information	ID3 tag and/or meta data display
Language setting	Menu and instruction language
Registration info	Displays current status for product
Return	Exit menu screen

Playback Method Select



Function to select playback list.

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- * The number inside the box represents the number of files to playback.

Caution

A "No Playback folder/file" message is displayed in M-Fold or M-File modes if the marked file/folder is not available.

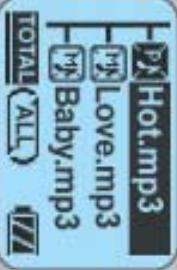
(Does not playback)

Deleting or adding a file/folder removes markings.

Play Mode	Description	Display												
	Hot.mp3													
M-Fold	Playback all the music files in the TM-430	<table border="1"> <tr> <td>TOTAL</td> <td>13</td> <td></td> </tr> <tr> <td>M-Fold</td> <td>10</td> <td></td> </tr> <tr> <td colspan="3">Playback selected folder only.</td> </tr> <tr> <td>(C)</td> <td>(M)</td> <td>(U)</td> </tr> </table>	TOTAL	13		M-Fold	10		Playback selected folder only.			(C)	(M)	(U)
TOTAL	13													
M-Fold	10													
Playback selected folder only.														
(C)	(M)	(U)												
M-FILE	Hot.mp3	<table border="1"> <tr> <td>M-FILE</td> <td>5</td> <td></td> </tr> <tr> <td colspan="3">Playback selected files only.</td> </tr> <tr> <td>(C)</td> <td>(M)</td> <td>(U)</td> </tr> </table>	M-FILE	5		Playback selected files only.			(C)	(M)	(U)			
M-FILE	5													
Playback selected files only.														
(C)	(M)	(U)												

Marking a File/Folder

Move the cursor (highlight) to the desired file/folder and press the record button to mark the file or folder.

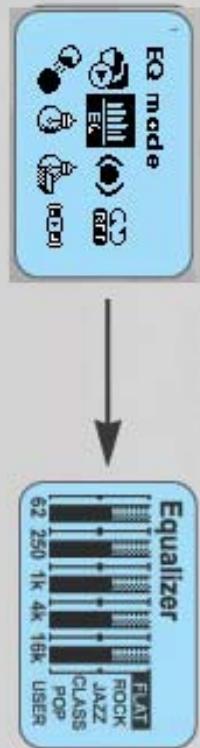


Unmarked

Marked

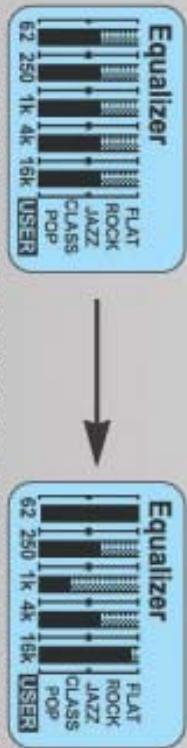
MP-510 Series User Manual

Use EQ to control and customize sound.



User EQ Setting

The user can control the output level for each frequency bandwidth to customize sound according to taste. The MP-510 User EQ divides sound into 5 frequency bandwidths and enables the user to control the level from +10dB ~ -10dB.



Use the menu and search/volume buttons to control setting.

WOW Labs SRS Setting

The following menu is available in the menu screen if SRS, TruBs, and WOW is set (displayed at the bottom of the LCD) Adjust the SRS, TruBs, and SPK values to customize the sound.

SRS – Creates a 3D sound effect.

TruBs – Supports low frequency sounds to create deeper sounds.

WOW – Enables both the SRS and TruBs functions to create greater sound quality.

SPK – Adjusts the sound effect depending on the speaker type used.

Value By Speaker	Note
40	Small earphones
60	Normal earphones
100	Small speaker
100 Above	Speaker

Note
SRS is registered to SRS Labs, Inc.

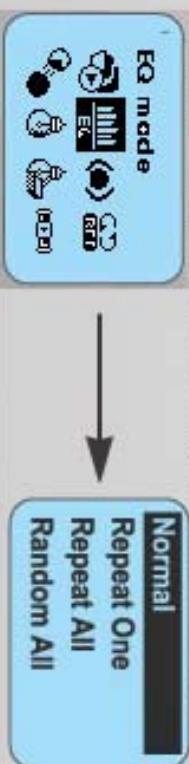
WOW is registered under license by SRS Labs, Inc.

EQ does not operate when SRS is active and EQ setting is not possible.
SRS setting is possible only in music mode when the SRS function is active.

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Repeat Function

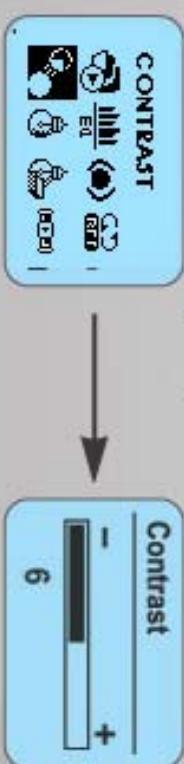
The Repeat function has the following types: Repeat single song/repeat all/random/random repeat/disable repeat.



	Description
Repeat single song	Continuously repeat the current song
Repeat All	Continuously repeat all the songs in the current in order.
Random	Randomly select and playback songs from the current track.
Random repeat	Shuffle and repeat all songs in the current track.
Disable repeat	Playback all songs (in listed order) of the current track once only.

Sharpness

Set OLED screen sharpness.



light setting
Set LCD light "On" time.



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Button light setting

Set LED to blink after OLED turns off.



*On: LED blinks every 3 seconds after OLED turns off.
Off: OLED turns off only.

Record setting
Set recording quality (bit-rate)



Note
ASD is available for LINE-IN only

WAV(kbps) MP3(kbps)

	WAV(kbps)	MP3(kbps)
VOICE	32, 44, 64, 88	
FM	32, 44, 64, 88	96, 112, 128
LINE-IN		96, 112, 128, 160

Scroll speed
Scroll speed control adjusts the speed of text movement on screen.



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Product Specification

Model	MP-510 Series (128/256/512/1024MB)
Internal Memory	128MB/256MB/512MB/1GB
Supporting Type	MPEG 1/2/2.5 Layer 3(8~320kbps, VBR), WMA(5~192kbps), ASF(Music files only), OGG(~320kbps), WAV
Battery	Re-chargeable
USB	USB2.0
Continuous playing time	Approx. 16hours(Volume 15,MP3 128Kbps)
OLED	96 x 64 (4Line) / OLED
Size	65 x 27.7 x 16.7 mm
Weight	35g
Signal Noise ratio	90dB
Earphone output	10mW + 10mW (16Ω)
FM freq. bandwidth	87.5~108.0MHz (Korea)
Recording	VOICE / FM / LINE-IN recording support
Language	Multilingual support (Unicode 2.0 standard)
Supporting OS	Windows 98SE / ME / 2000 / XP / MAC

* Installation program for MAC is not provided.

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

NOTE: THE MANUFACTURER IS NOT RESPONSIBLE FOR ANY RADIO OR TV INTERFERENCE CAUSED BY UNAUTHORIZED MODIFICATIONS TO THIS EQUIPMENT. SUCH MODIFICATIONS COULD VOID THE USER'S AUTHORITY TO OPERATE THE EQUIPMENT.

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