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03.

What is M-PAL?

MUSIC FRIEND

Toodis Co., Ltd. is specialized in digital voice recorders. MPal is a multiple feature portable digital audio set with new functions more advanced than those of the existing MP3 players.

Realizing a super compact design and best sound quality, MPal is the world best multimedia player with integrated functions of MP3 player, voice recorder, FM radio, and portable hard drive.

Super slim design

With a total design concept with fashionable user interfaces, MPal becomes the user any time any place, easy to carry for its super compact dimension and convenient to use.

MULTIPLAYER

M-PAL records and playbacks a diverse range of sound file formats, producing rich refined sound quality on generic audio equipment with diverse sound quality setup functions.

VOICE RECORDING

M-PAL is based on the best know-how of our company that takes lead in the voice recorder product. M-PAL enables you to record the mobile phone call and regular phone call with various qualities, M-PAL will present you the longest and best functionalities.

FM RADIO

With M-PAL, you can listen to FM radio any time any place and you can repeatedly playback recordings as it offers DIRECT ENCORDERING.

Firmware Upgrade

This enables MPAL to maintain the best functions through frequent upgrading of its firmware.

TOGETHER

M-PAL's embedded speaker lets you share music or other recordings with your pals as its name implies.

04

Accessories

Your M-PAL pack consists of the body, user manual, program CD, earphone, remote switch, line (cable) and optional case.

Basic M-PAL components

Body, user manual, program CD, earphone, remote switch, cable and battery

Optional M-PAL components

Remote switch, line (cable)

05

Features

Features

Flash memory

M-PAL maintains recordings even when the power is cut off.

AUTO POWER OFF

M-PAL conserves battery power as its power is automatically cut off when in prolonged standby mode.

VOR (Voice Operated Recording System)

M-PAL conserves memory as it starts recording only when sound is detected.

Extended recording

M-PAL can record up to 3,480 minutes (128M-LQ) or 6960 minutes (128M+LQ) with expanded internal memory.

EL BACK LIGHTING

You may easily read M-PAL displays as it has EL back lighting.

Folder generation

M-PAL enables you to generate and edit folders as it has large capacity hard disc.

Automatic Adjustment of Play Speed

M-PAL playback speed can be adjusted to five different slow speeds as well as the normal speed.

Diverse user-adjusted equalizing functions

M-PAL offers two EQ modes in addition to normal, rock, pop, jazz, and classic mode.

Remote control

You can easily control M-Pal with the remote control switch.

Reserved Recording

You may schedule recording start time up to one hour.

(1 minute ~ 1 hour in minute increments: Recording starts at the scheduled time)

*Extended recording is available with the adaptor.

Repeat playback of selected recording sections

You may playback your desired section repeatedly.

06

Repeated playback of MP3 files

The default MP3 setup is for unlimited repetition in seven different repeat modes.

Monitoring

You may listen to recordings with the earphone while being recorded.

Mutual recording with external devices

Mutual recording is available with external devices using the audio cable.

Sound level display

Sound level is displayed during recording or playback.

Pause

You may suspend the recording or playback temporarily.
(M-PAL automatically turns into Pause after 15 idle minutes.)

Menu setup

You may set up various functions with the Menu setup functions.

Hold

It prevents wrong key operations during recording or playback.

Recording Mode setup

You may select recording sound quality by selecting LQ, HQ, SQ, or SHQ.

Scan

You may listen to the beginning part of multiple files.

Voice E-mailing

You may send voice e-mail using the voice manager program.

Easy and speedy file edit

You may divide, merge, move or add files using the voice manager program.

Large capacity storage disc recognition

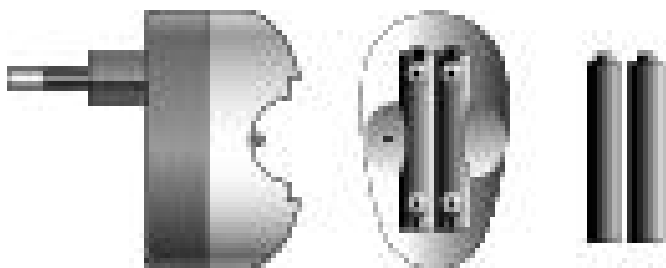
You may use this disc as a movable disc.

07 Before Using

Using battery charger

*Using battery charger (Option)

1. Insert the battery into the charger matching the poles.



2. Insert the charger into a power connector receptacle.

When fully charged, the charge lamp turns from red to green.

***Note:**

It takes approximately 1.5 hour to charge the battery when fully discharged.

The charger may be used on 220V only.

***Warning:**

Keep the battery and the charger away from children.

Do not disassemble the charger.

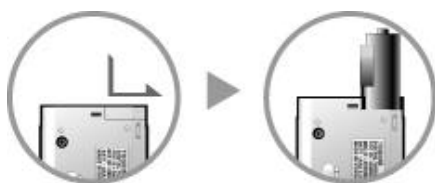
Refrain from over charging to avoid a possible fire. Remove the charger from the power source whenever the battery is fully discharged.

Ensure to use the approved batteries only.

Inserting the battery

***Inserting the battery**

1. Push the battery cover by the arrow direction.



2. Insert the battery with + and – pole properly matching.

3. Close the battery cover.

08

***Note:**

Replace batteries with the power off.

Ensure to match the poles (+, -).

Detach the batteries from the set when it is not used for a prolonged time.

***Battery display icons**



Sufficient, half consumed, consumed, nearly discharged, replace

***Battery life**

	Battery Type	Recording	Listening Mode	Playback	MP3 Playback	FM Reception
AAA ALKALINE	Rechargeable (800mA)	7hour	Speaker	12.5 hour	6.5 hour	
			Earphone	14.5 hour	7.5 hour	11.5 hour
	Dry battery (800mA). hour	7hour	Speaker	12.5 hour	6.5 hour	
			Earphone	14.5 hour	7.5 hour	11.5 hour

*Set the volume at 13 when testing battery life.

Insert time later.

Note:

-“LOW BATT” is displayed on the LCD window when the battery is low. It is fully depleted in 10 seconds.

-Battery life may vary depending on sound volume.

-You should better set up AUTO POWER OFF to conserve battery.

-You can further prevent battery from being wasted by wrong key operations if HOLD is set On.

Warning:

-Immediately cleanse electrolyte from your skin or clothes with clean water. You should see a medical doctor if your skin shows abnormal symptoms.

-Immediately cleanse electrolyte from your eyes with clean water. Do not rub with your hands. Ensure to see a medical doctor.

09 Before Using

Starting (Enter) your M-PAL

*Power On/Off

1. Release HOLD button. (HOLD OFF)
2. Press REC/STOP (*&) button for over 3 seconds to turn the power on.
3. Press REC/STOP (*&) button for over 3 seconds again to turn the power off.

*Note:

- Power turns off if no button is pressed for over 1 minute in standby under VOICE or MP3 mode.

*Connecting to Remote Control Switch (Remocon)

1. Connect Remocon plug to the earphone jack on the unit bottom.

2. Insert the unit plug into the earphone jack of Remocon.

***Mode Selection**

You move to various modes (MP3, VOICE, RADIO) alternately if you press and hold M (Menu) button while the power is on.

For your safety -

-This user guide includes important precautions to prevent misuse or abuse of the product. Carefully read this user guide before using this product.

-Keep the user guide for future reference.

Meanings of Displays

***Note:**

- When misuse or abuse may cause damage to you or the product.

***Warning:**











- When misuse or abuse may cause damage to you or malfunction.













***Note:**

- Reference points that help you use your M-PAL more efficiently.

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Icons

Icon	Name	Icon	Name
	Folder Management		Playback Speed
	Sound Quality Setup		LANGUAGE
	Repeat Mode		LCD Brightness Setup
	Recording Mode		Backlight Setup
	Play Speed		AUTO POWER OFF

	SYNC Setup		Flash Format
	Input Mode Selection		View Memory
	M-PAL Setup		PC LINK
	VOR Setup		Country Setup
	Reserved Recording		To Upper Menu
	PlaybackSound Quality Setup		Playback Repeat Mode

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Precautions

*Do not drop or apply force to the product!! It may cause malfunction.

*Do not keep in the following spots:

- where it is very hot (60° C)
- where directly exposed to sun light or heating appliances
- in a closed car (especially in summer)
- bathroom or other humid room
- highly dusty

*Excessive force to the LCD may cause damage or malfunction for the nature of LCD.

*Keep your cash card or credit card with magnetic stripe away from the speaker. It may cause damage to the magnetic memory.

*Please note the manufacturers are not to be held responsible for any damages caused by this product to you or to claims raised by any third person.

*Save important data in a safe media by transferring from the product to an external memory device as the data saved in the product memory are subject to damage.

*Beware of electric shock when you use this product.

*The printings or markings of this product may wear or tear for long use or other causes (excessive pressure or abrasion).

*Holding the unit tight on your arm for long hours may cause impediment to your blood circulation.

*Beware. If you hold the unit strap on your neck, it may be trapped in elevator doors etc.

Precautions for Safety

- *Do not attempt to repair, disassemble or alter the unit.
- *Immediately remove the batteries if smoke or deformation from heat arises.
- *Refrain from using in an aircraft or other places where use of electronic devices is banned.
- *Keep the unit or its accessories away from children as they may swallow small parts.
- *Do not put the unit into your mouth as the unit surface has paint that may be hazardous to human body.
- *Do not remove the front sheet as the unit front has sharp corners that may cause damages to you.
- *Do not throw the unit to others.
- *Do not cut, disassemble or apply heat to the battery.
- *It may cause alkali solution or other electrolyte drop into your eyes or explosion or rupture.
 - Immediately cleanse alkali solution or electrolyte with clean water if your skin or clothes are stained. Cleanse your eyes if the solution drop enters them and immediately see a doctor.

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13. Description of Parts

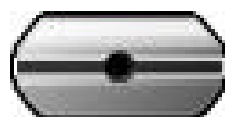
Name of Various Parts (Body)

*Top



Battery Cover / External Input Terminal

*Bottom



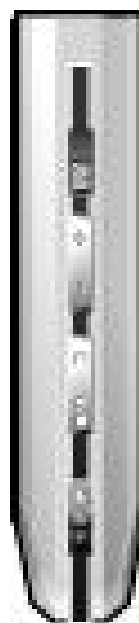
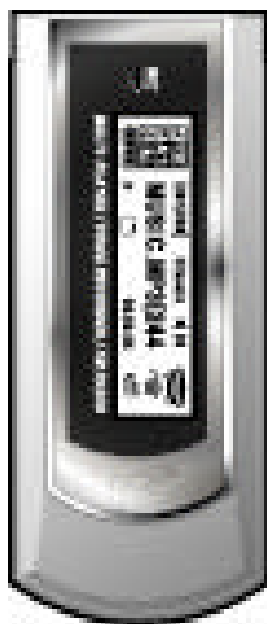
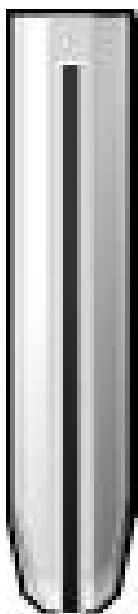
Earphone Jack

*Left

*Front

*Right

*Rear



in Speaker

LCD Screen

HOLD

Built-

USB JACK

Volume+

Volume-

Menu M

Record/Stop

*/&

Play/Pause

Move forward or backward

*/&

14. Name of Various Parts (LCD Screen)



*LCD Display

VOICE ICON

MP3 ICON

Status Display Screen

VOLUME LEVEL

FM RADIO ICON

BATTERY ICON

Name of Various Parts (Remocon)

*Left



Volume+

Play/Pause

Volume-

Equalizer

Record/Stop

*

*Front



Move forward

Move backward

HOLD

*Right



15. MP3 MENU

MENU

*Select Play/Pause button after entering Menu

(Exit from Menu by Rec/Stop button)

MENU	Upper Menu	Lower Menu	Menu Description	Key Operation
MENU(M Button)	1. Folder management	Delete folder	Delete selected folder or file one by one	Delete by VOL button (Exit by REC/Stop button)
		Delete file		
	2.Setup Sound Quality	1 NORMAL	Select sound quality by Sound Quality Setup	Select by Play/Pause button after moving with jog key(Exit by Record/Stop (*/&) Button)
		2 ROCK		
		3. JAZZ		
		4. POP		
		5. CLASSIC		
		6. USER1		
		7. USER2		
	3.Repeat Mode	1.FILE REPEAT	Select REPEAT mode by Repeat Mode Setup	
		2.FOLDER PLAY		
		3. FOLDER REPEAT.		
		4. RANDOM PLAY		
		5. RANDOM REPEAT.		
		6. ALL FOLDER		
		7.ALL FOLDER REPEAT		
	4. Record Modes	1. STEREO	You may select Record Modes or change the compression rate with Recording Mode Setup.	
		2. MONO.		
	5. Play Speed	1. SLOW (1~5 steps)	You may select the playback speed up to six	



		2. NORMAL	(1~5 Slow steps and Normal) different steps with Speed Setup	
	6. Sync setup	1. ON	You may save recordings while SYNC is set up into one or multiple files.	
		2. ONE		
		3. OFF		
	7. Input mode selection	1. LINE INPUT		
		2. MIC INPUT		
	8. M-Pal setup	1. LANGUAGE.	You may select language, brightness, illumination, auto off, memory format, View Memory. You can upgrade these functions through FIRMWARE UPGRADE by selecting PC Link.	
		2. LCD Brightness Setup		
		3. Backlight Setup		
		4. Auto Power Off		
		5. Flash Format		
		6. View Memory		
		7. PC LINK		
		8. Country Selection		
		9. To Upper Menu		









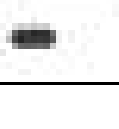








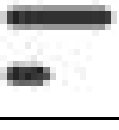


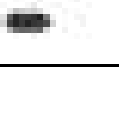
*Above is MP3 MENU.

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MP3 PLAYER KEY FUNCTION

 - Press and hold (long pressing)  - Click (short pressing)

Button Key Operation	In the standby mode	In Playback	In Recording Mode
	Volume keeps increasing	Volume keeps increasing	
	Volume increases by 1 step	Volume increases by 1 step	
	Volume keeps decreasing	Volume keeps decreasing	
	Volume keeps decreasing	Volume keeps decreasing	
	Mode switch		

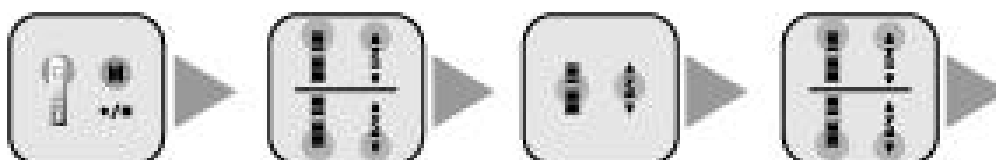
  	Mode switch		
  	POWER OFF	Enter MP3 Menu	
  	Start Recording, Stop Recording	Stop Playback	Stop Recording
  	Keep moving to previous files	Moves to front parts of a file	
  	Move to previous file	Play previous file	
  	INTRO SCAN PLAY	PAUSE	
  	Start Playback	Repeat Section	Pause
	Keep moving to next files	Moves to front parts of a file	
	Move to next file	Play next file	

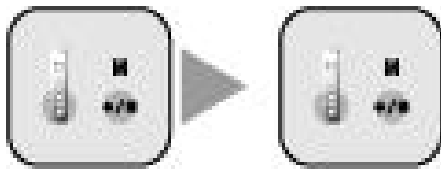
Folder Management

-MP3 Folder Change

1. Enter Menu pressing M button in the standby mode.
2. Enter a lower menu by pressing Play/Pause (*/&) button in 1. Folder Management in the upper menu
3. Go to a folder which you want to play or record in using FF/REW(?/.) button.
4. The folder is selected and your exit from the menu when you press 4. Rec/Stop (*/&) button.

(Beware. All files are deleted if you press VOL button. Exit by pressing Rec/Stop (*/&) button)





To Upper Menu Move to Folder Select Folder Search Folder
 Move to Upper Menu Exit from Menu
 Management Menu Management Menu
 after Selecting Folder

17 MP3 Menu

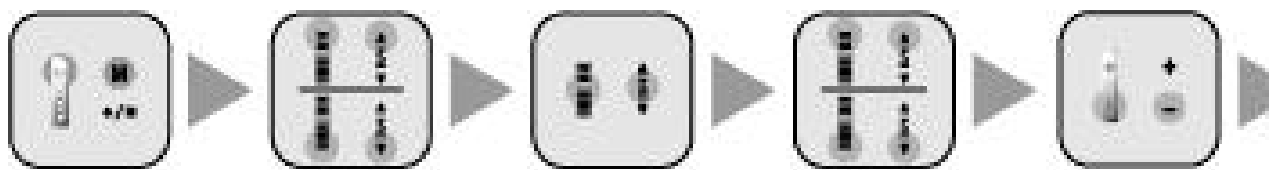
Delete Folder

You may erase MP3 folders saved in the unit.

1. Enter Upper Menu pressing M button in the standby mode.
2. Enter a lower menu by pressing Play/Pause (*/&) button in 1. Folder Management in the upper menu
3. Go to the folder to delete using FF/REW(*/&) button.
4. A screen appears to ask you to confirm if you want to delete a folder when pressing VOL button in the folder to delete. The folder is deleted if you press Rec/Stop (*/&) button after selecting "YES" with FF/REW (*./&) button in the screen.

(Cancel by pressing Rec/Stop (*/&) button.)

*Only the files in a folder are deleted when you delete a folder.



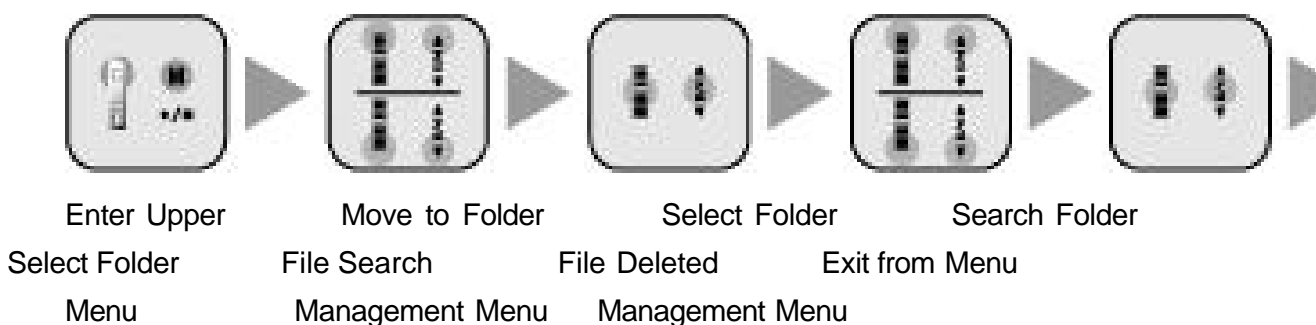
Enter Upper Move to Folder To Select Folder Search Folder
 Folder Deleted Exit from Menu
 Menu Management Menu Management Menu

*Delete Files

You may erase MP3 files saved in the unit memory.

1. Enter Upper Menu pressing M button in the standby mode.
2. Enter a lower menu by pressing Play/Pause (*/&) button in 1. Folder Management in the upper menu

3. Go to the file to delete using FF/REW (*/&) button.
4. You may view all the files in a selected folder by pressing Rec/Stop (*.&) button while the folder is selected.
5. Go to the file to delete using FF/REW (*/&) button.
6. A screen appears to ask you to confirm if you want to delete a file when pressing VOL button in the file to delete. The file is deleted if you press Play/Pause (*/&) button after selecting "YES" with FF/REW (*/&) button in the screen.



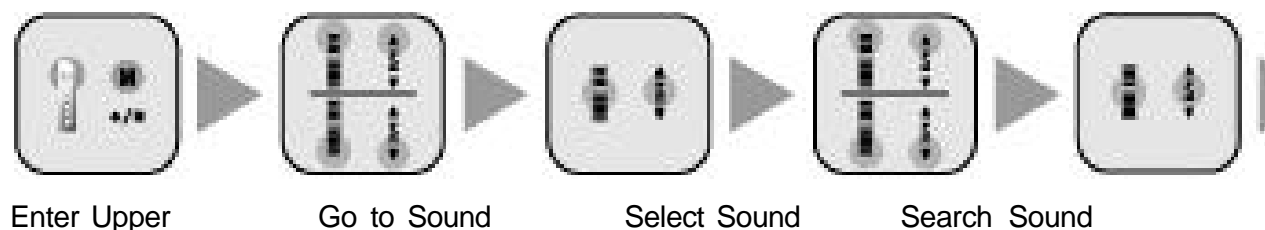
Sound Quality Setup

*Sound Quality Setup

You may enjoy optimized sound quality (tone) by selecting your desired sound quality.

1. Enter Upper Menu by clicking M button in the standby mode.
2. Go to 2. Sound Quality Setup using FF/REW (*/&) button.
3. Go to the lower menu by pressing Play/Pause (*/&) button in Sound Quality Setup.
4. Select one of the seven sound quality modes in the lower menu using FF/REW (*/&) button.
5. Press Play/Pause button after selecting a sound quality.
6. The sound quality is selected and you return to the upper menu.
(Cancel by pressing Rec/Stop button.)
7. Press Rec/Stop button to exit the menu.

*You may select a sound quality out of the five sound quality values that best suits a user if you press Play/Pause button when User 1 or 2 is selected.



Move to Upper Menu Exit from Menu

JMenu
after Selecting

Quality Setup Menu

Quality Setup Menu

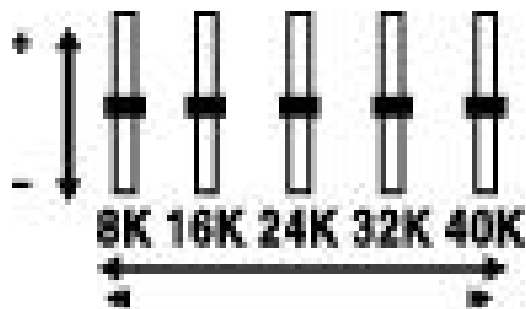
Quality

S

ound Quality

*Note:

- Two User sound quality setup is supported. The default value is set to 0. You may save User Sound Quality Setup by adjusting five different values. You may adjust the frequency value with +,- and move to frequency with FF/REW button.



19 MP3 Menu

Repeat Mode

*Repeat Mode

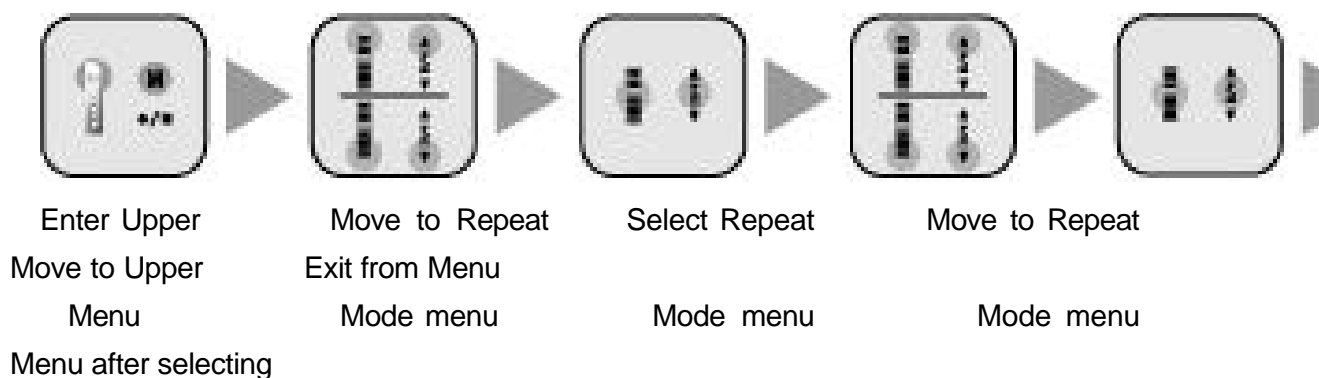
You may set up a total of seven repeat modes - FILE REPEAT, FOLDER PLAY, FOLDER REPEAT, ALL FOLDER PLAY, ALL FOLDER REPEAT, RANDOM PLAY, or RANDOM REPEAT.

You may use Section Repeat by clicking Rec/Stop button during recording.

1. FILE REPEAT : Repeats a selected file.
2. FOLDER PLAY : Stops after playing the last piece in a selected folder.
3. FOLDER REPEAT : Repeats all pieces in a selected folder.
4. RANDOM PLAY : Stops after Random playback of a selected MP3 file.
5. RANDOM REPEAT : Repeats Random playback of a selected MP3 file.
6. ALL FOLDER PLAY : Stops after repeated playback of MP3 files of all the folders saved in the unit.
7. ALL FOLDER REPEAT : Repeats playback of MP3 files of all the folders saved in the unit.

*Repeat Mode Setup

1. Enter Upper Menu by clicking M button in the standby mode.
2. Move to 3. Repeat Mode in the menu using FF/REW button.
3. Go to the lower menu by pressing Play/Pause (*/&) button in Repeat Mode menu.
4. Select one of the seven repeat modes in the lower menu using FF/REW button.
5. Press Play/Pause button after selecting a repeat mode.
6. The repeat mode is selected and you return to the upper menu.
7. Press Rec/Stop button to exit the menu.



a

*LCD Display of Repeat Setup

SECTION REPEAT	FILE REPEAT	FOLDER PLAY	FOLDER REPEAT	RANDOM PLAY	RANDOM REPEAT	ALL FOLDER REPEAT	ALL FOLDER REPEAT
A↔B							

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Recording Mode Setup

*Record Modes

You may set up the sound quality of recording files in MONO and STEREO each having 15 sound qualities.

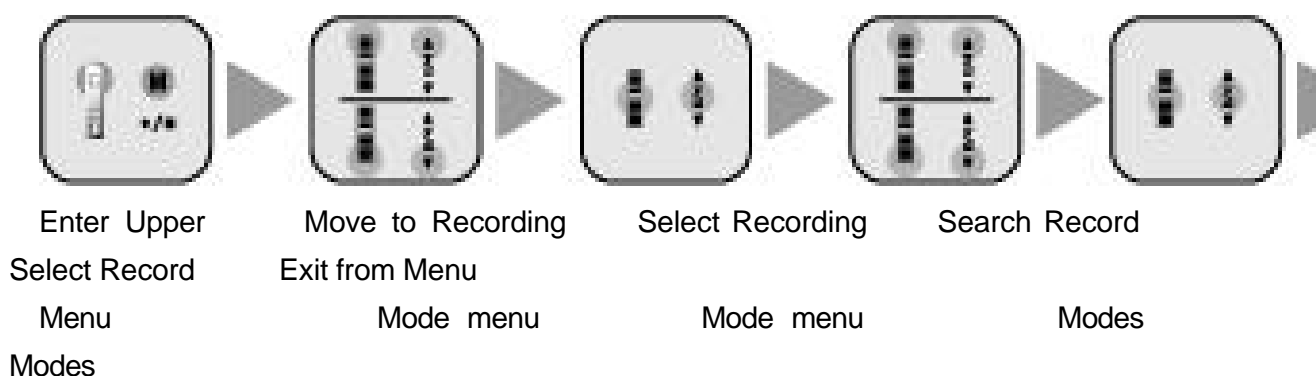
(It is recorded in MP3 file when Rec/Stop button is pressed in MP3 mode.)

1. STEREO : It supports a total of 16 record sound qualities - 8Kbps, 16 Kbps, 24Kbps, 32Kbps, 40Kbps, 48Kbps, 56Kbps, 64Kbps, 80Kbps, 96Kbps, 112Kbps, 128Kbps, 160Kbps, 192Kbps, 224Kbps, or 256Kbps.
2. MONO: It supports a total of 16 record sound qualities - 8Kbps, 16 Kbps,

24Kbps, 32Kbps, 40Kbps, 48Kbps, 56Kbps, 64Kbps, 80Kbps, 96Kbps, 112Kbps, 128Kbps, 160Kbps, 192Kbps, 224Kbps, or 256Kbps.

*Recording Mode Setup

1. Enter Upper Menu by clicking M button in the standby mode.
2. Go to 4. Recording Mode Setup in the upper menu using FF/REW button.
3. Go to the lower menu by pressing Play/Pause button in Repeat Mode Setup menu.
4. Press Play/Pause button after selecting one out of 32 Mono or Stereo record modes.
5. Press Play/Pause button once in the selected one out of 32 Mono or Stereo record modes.
6. The record quality is selected and you return to the lower menu.
7. Press Rec/Stop button to exit to MP3 Standby Mode.



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Play Speed Setup

*Play Speed Setup

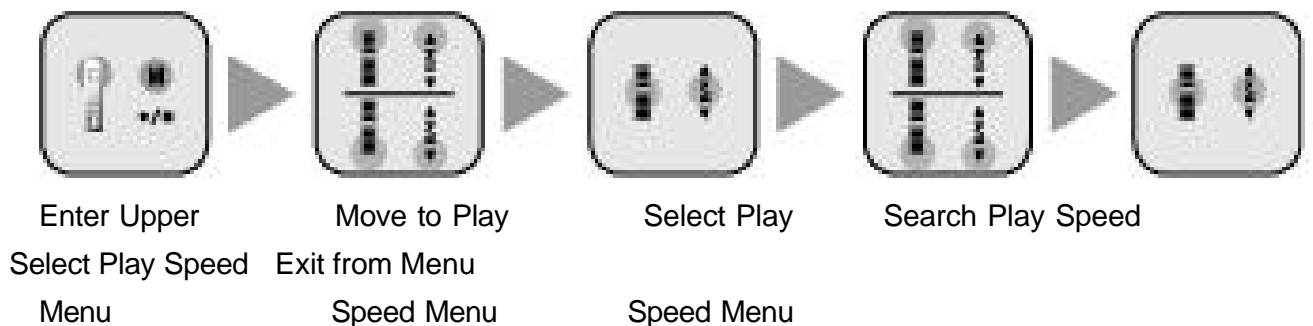
You may set up the playback speed as you desire.

The playback speed may be set to any of six speeds - SLOW 1~5 and NORMAL.

1. Enter Upper Menu by clicking M button in the standby mode.
2. Go to 5. Play Speed Setup in the upper menu using FF/REW button.
3. Go to the lower menu by pressing Play/Pause button in Play Speed Setup menu.
4. Select any of SLOW 1~5, or NORMAL using FF/REW button.
5. Press Play/Pause button after selecting a play speed.
6. The play speed is selected and you return to the lower menu.

7. Press Rec/Stop button in the lower menu where the play speed is selected.
8. You exit to MP3 Standby Mode.

*The selected play speed is applied to all files.



*Sync setup

Sync setup

You may set up file saving in SYNC mode - ON, ONE, or OFF.

1. SYNC ON : Input pieces are automatically saved in separate record files.
2. SYNC ONE : Recording is terminated after recording one piece.
3. SYNC OFF : All pieces are saved in a file without separation by piece.

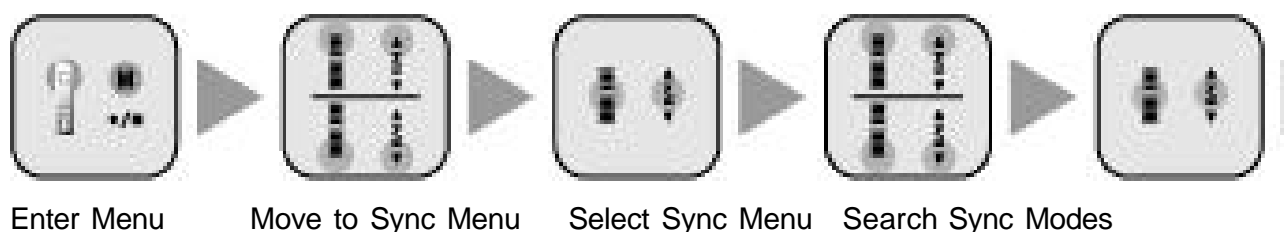
SYNC Setup

1. Enter Upper Menu by clicking M button in the standby mode.
2. Go to 6. SYNC Setup in the upper menu using FF/REW button.
3. Go to the lower menu by pressing Play/Pause (*&) button in SYNC Setup menu.
4. Select SYNC ON, SYNC ONE, or SYNC OFF using FF/REW button.

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5. Press Play/Pause button after selecting a Sync mode.
6. The Sync mode is selected and you return to the upper menu.
7. Press Rec/Stop button to exit the menu.

*The selected Sync mode is applied as set up.



Select Sync Mode Exit from Menu

*Input mode selection

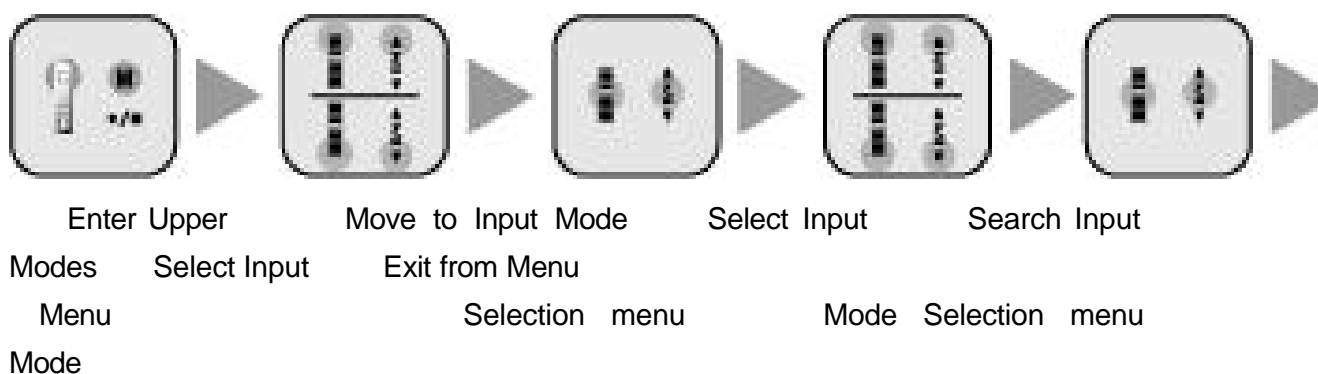
*Input modes

You may select LINE INPUT(recording with external devices) or MIC INPUT (VOICE, MP3) for recording.

*Input mode setup

1. Enter Upper Menu by clicking M button in the standby mode.
2. Move to 7. Input Mode Selection in the upper menu using FF/REW button.
3. Go to the lower menu by pressing Play/Pause (*/&) button in Input Mode Selection menu.
4. Select LINE INPUT or MIC INPUT using FF/REW button.
5. Press Play/Pause button after selecting an input mode.
6. The input mode is selected and you return to the lower menu.
7. Press Rec/Stop button in the lower menu where the input mode is selected.
8. You exit to MP3 Standby Mode.

*The selected input mode is applied to recording after the setup. LINE-INPUT supports recording from an external device only. The file is saved in MP3 format.



M-PAL Setup

*M-PAL Setup

You may set up the basic functions of M-PAL as follows:

1. LANGUAGE: You may select Korean, English, Chinese, Japanese, or German.
2. LCD Brightness Setup You may set up the sharpness of LCD display characters.
(It may be adjusted in 20 increments – 0 ~ 20.)

3. Backlight Setup: You may set up the duration of LCD backlight on time.
(It may be set up in five steps – 5, 10, or 30 seconds, Always On or Always Off.)
4. Auto Power Off Setup: You may set up Auto Power Off time.
(It may be set to 1, 5, 10, or 30 minutes or Always On.)
5. Flash Format: You may set Flash Memory to either LOW FORMAT or QUICK FORMAT.
(LOW FORMAT: Restores the memory to its default setup.
QUICK FORMAT : Deletes all files saved in the unit memory.)
6. View Memory: You may check the total and unused space of the flash memory.
7. PC-LINK : You use this function to upgrade your unit firmware by connecting to a PC.
8. Country Setup: You may set up the language by selecting a country where the unit is used.
9. To Upper Menu

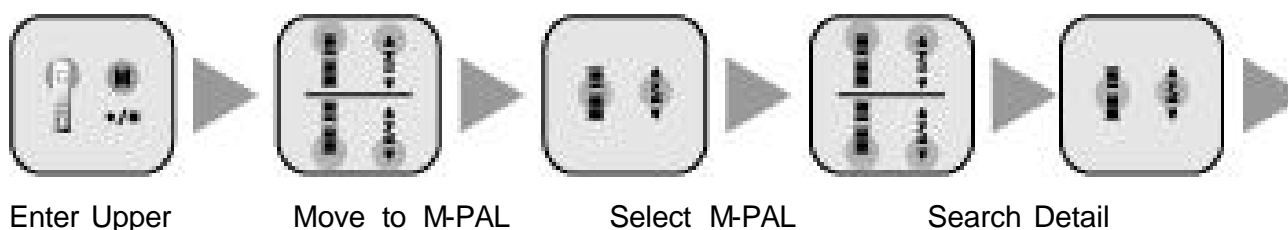
M-PAL Setup

1. Enter Upper Menu by clicking M button in the standby mode.
2. Move to 7. M-PAL Setup in the upper menu using FF/REW button.
3. Go to the lower menu by pressing Play/Pause (*/&) button in MPAL Setup menu.

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4. Go to LANGUAGE, LCD Brightness Setup, Backlight Setup, Auto Power Off Setup, Flash Format, View Memory, or PC LINK using FF/REW button.
5. Press Play/Pause button after selecting one of the seven MPAL setup menu items.
6. Select a detail setup item using FF/REW button after entering the selected M-PAL setup menu and then press Play/Pause button.
7. Press Rec/Stop button to exit the menu.

*M-PAL setup value is applied until it is revised.



Select Detail M-PAL Menu	Adjust Detail Menu Setup Menu	Setup Detail Menu Setup Menu	Exit from Menu M-PAL Setup items
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Setup Menu

How to Use MP3

MP3 File Play

*Play

You may play MP3 files saved in the unit memory.

1. Click Play/Pause button.
2. Play is paused if Play/Pause button is pressed long.
3. Section Repeat is set up if Play/Pause button is pressed.
4. Press Play/Pause button to have Section Repeat setup released.

*File Search

You may move, search or select a file using FF/REW button.

1. Move to previous or next file: Click FF/REW button while in recording.
2. Search: Press and hold FF/REW button while in recording.
3. Select previous or next file: Click FF/REW button while in pause.

Handy MP3 Play Functions

*Pause

You may pause play for a while.

1. Press and hold Play/Pause button while in playing MP3.
2. Click Rec/Stop button to release the pause.

*Power is automatically turned off if 30 minutes elapses after a pause.

*INTRO Playback

The unit plays the beginning part of each file for 5 seconds in sequence.

1. Click Play/Pause button in the standby mode.
2. The beginning part of all files in a selected folder is played in sequence.

*Sound Volume Adjustment

The sound volume may be adjusted from 0 to 20 level with Volume button.

***Warning:**

- Do not raise the volume excessively when you listen to recordings with the earphone. It may damage your hearing.
- Adjust the volume after starting play at a low volume.

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***Section Repeat**

It plays a selected section repeatedly.

1. The beginning point of a section to repeat is set up when you click Play/Pause button at a desired point while playing MP3 file.
2. Click Play/Pause at the point where you desire to terminate the section to repeat. Then, the unit plays the section between the two points repeatedly.
3. Press Play/Pause button to release the section repeat.

***Resume**

You resume playback from the point previously played by pressing Play/Pause button again after pressing Play/Pause ~~Rec/Stop~~ button while in playing.

***Note:**

A file is played from its beginning if your press Play/Pause button after clicking REW button while in pause.

***Play Speed Setup**

You may set up the playback speed.

Refer to Play Speed Setup on page 21.

***Folder Setup**

You may play or record in a folder created on a computer as in the case of an external hard disc.

1. The unit is shipped with these default folders created - MP3, VOICE, RADIO, and M-PAL SYSTEM folder.
2. Normal recordings are saved in the Voice folder in Voice format. LINE-IN or RADIO recordings are saved in the relevant default folder in MP3 file format.
3. The folder setup is finished when you press M button after selecting MP3 or FM-R folder.

***Note:**

MP3 Folder: You can create folders as much as you want when the computer is connected to the MP3 file folder. Only MP3 file will be saved.

Radio Folder: This folder contains the radio broadcasting file. The file will be saved as a MP3 file.

Voice Folder: The file will be saved as an exclusive voice record file.

27 How to Use MP3 Menu

***Equalizer Setup**

You may enjoy music with your desired sound quality selected based on the type of music files to play.

Refer to Equalizer Setup on page 18.

***Repeat Setup**

You may set up a total of seven repeat modes - FILE REPEAT, FOLDER PLAY, FOLDER REPEAT, ALL FOLDER PLAY, ALL FOLDER REPEAT, RANDOM PLAY, or RANDOM REPEAT. You may use Section Repeat by clicking Play/Pause button during playback. Refer to Repeat Play Setup on page 19.

Delete MP3 Files or Folders

***Delete MP3 Files or Folders**

You may erase MP3 files or folders saved in the unit.

1. You may erase one MP3 file saved in the unit memory.
2. You may erase all MP3 files saved in a folder of the unit. Refer to Folder management on page 18.

Note:

- Erased files or folders cannot be restored. Reconfirm files or folders to erase beforehand.

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Voice Recorder Menu

VOICE MENU. Enter Menu Select Play/Pause button (Exit from Menu with Rec/Stop button)


MENU	Upper Menu	Lower Menu	Menu Description	Key Operation
MENU(Mbutton)	1.Folder management	1. Folder Selection 2.Foler or File Deletion	Selects a folder or deletes folders or files one by one.	Delete by VOL Button(Exit from Menu with Rec/Stop button)
	2. Recording Mode	1.LQ 2.SQ 3.HQ 4.SHQ	You may select Record Modes or change the compression rate with Recording Mode Setup.	Select by Play/Pause button after moving with jog key(Exit from Menu with Rec/Stop button)
	3. VOR Setup	1.VOR OFF 2.VOR ON	Saves memory as recording is activated when sound is detected.	
	4. Reserved Recording		You may set the record start time.	
	5. Input mode selection	1. LINE INPUT 2.MIC INPUT		
	6. Play Speed	1.SLOW(1~5 steps) 2.NORMAL	You may select the playback speed up to six (1~5 steps and Normal) different steps with Speed Setup	
	7. Repeat Mode	1.FILE REPEAT 2.FOLDER PLAY 3.FOLDER REPEAT 4. RANDOM PLAY 5.RANDOM EPEAT 6.ALLFOLDER LAY 7.ALLFOLDER REPEAT	Select Repeat Mode with Repeat Mode Setup	



















	8. M-Pal setup	1 LANGUAGE 2.LCD Brightness Setup 3. Backlight Setup 4.Auto Power Off Setup 5.Flash Format 6. View Memory 7. PC link 8. Country Setup 9.To Upper Menu	You may select language, brightness, illumination, auto off, memory format, memory view. You can upgrade these functions through FIRMWARE UPGRADE by selecting PC Link.	
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*Above is VOICE RECORDER MENU.

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Voice Recorder Key Function

 - Press and hold (long pressing)  - Click (short pressing)

Button	Key Function	In Pause	In Playback	In Recording
  	  	Volume keeps increasing	Volume keeps increasing	
		Volume increases by 1 step	Volume increases by 1 step	
  	  	Volume keeps decreasing	Volume keeps decreasing	
		Volume keeps decreasing	Volume keeps decreasing	
  	  	Mode switch	Enter Voice Menu	
		Enter Menu		

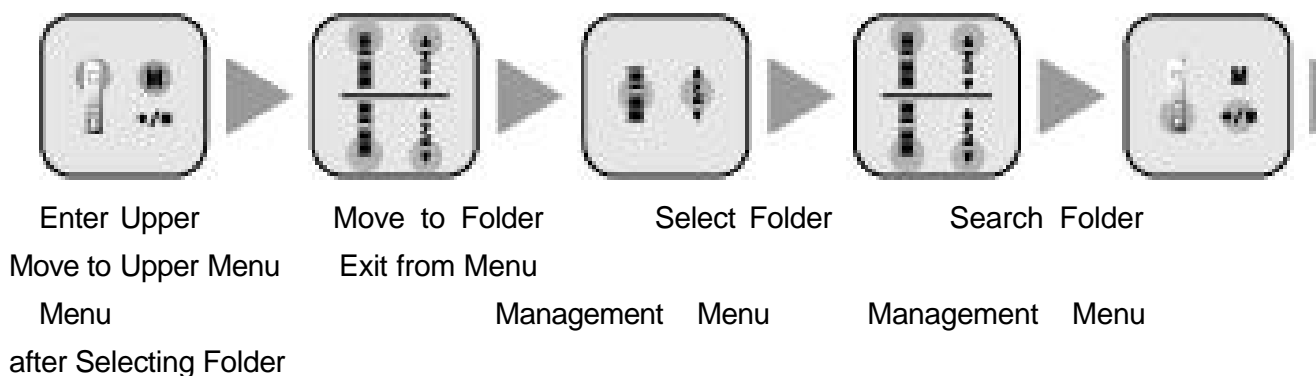
			POWER OFF		
			Start recording	Stop Playback	
			Keep moving to previous files	Moves to front parts of a file	
			Move to previous file	Play previous file	Record with next file number
			Intro Playback	Pause	
			Start Playback	Repeat Section	Pause
			Keep moving to next files	Moves to front parts of a file	
			Move to next file	Play next file	

Folder Management

*VOICE Folder Change

1. Enter Upper Menu pressing M button in standby mode.
2. Enter a lower menu by pressing Play/Pause (*/&) button in 1. Folder Management in the upper menu
3. Go to a folder which you want to play or record in using 3. FF/REW button.
4. The folder is selected and you exit to the upper menu when you press Rec/Stop button.

(Beware. All files in a folder are deleted if you press VOL button. Cancel by pressing Rec/Stop button.)



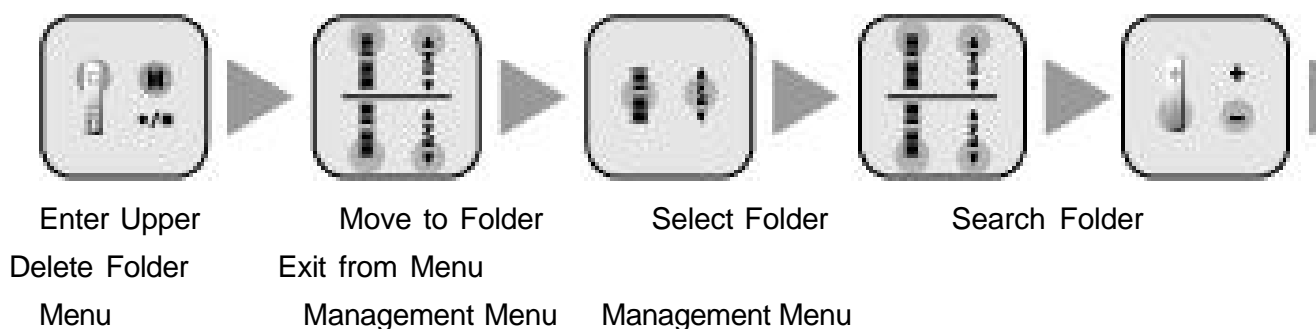
*Delete VOICE Folder

You may delete all files in a folder saved on the unit.

1. Enter Upper Menu pressing M button in standby mode.

2. Enter a lower menu by pressing Play/Pause (*/&) button in 1. Folder Management in the upper menu
3. Go to the folder to delete using FF/REW button.
- 4..The folder is deleted if you press VOL button when the folder is selected.
(Cancel by pressing Rec/Stop button.)

*Only the files in a folder are deleted when you delete a folder.

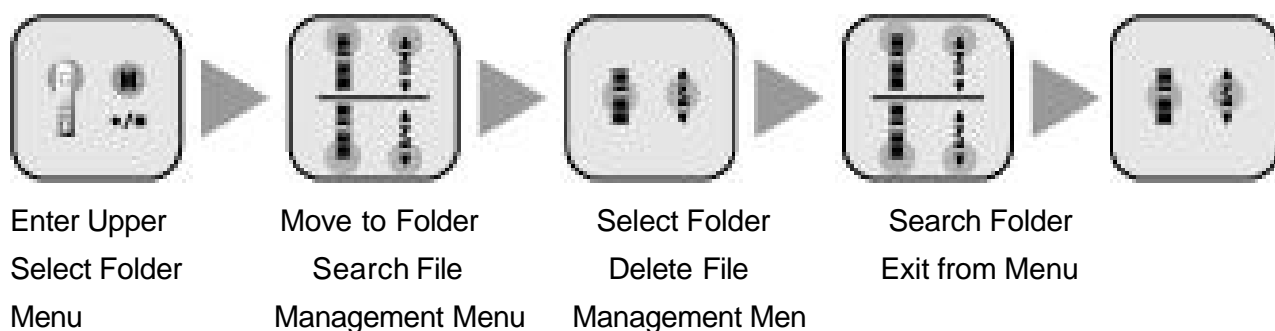


Delete Files

You can delete the recorded files in the player.

- 1.Press the menu button in the stop mode to return to the upper menu.
2. Press the PLAY/PAUSE button at the “Folder Management” – the first menu item, in order to enter the sub-meu.
3. Move to the folder that contains the file to delete using the FF/ REW button.
4. Press the PLAY/PAUSE button in the selected folder to retrieve all files in the folder.
5. Move to the file to delete using the FF/ REW button.
6. Press the VOL button in the folder to delete. Then, the file will be deleted.

(The file will be deleted one by one whenever you press the VOL button. Press the REC/STOP button to cancel.)



Recording Mode Setup

*Record Modes

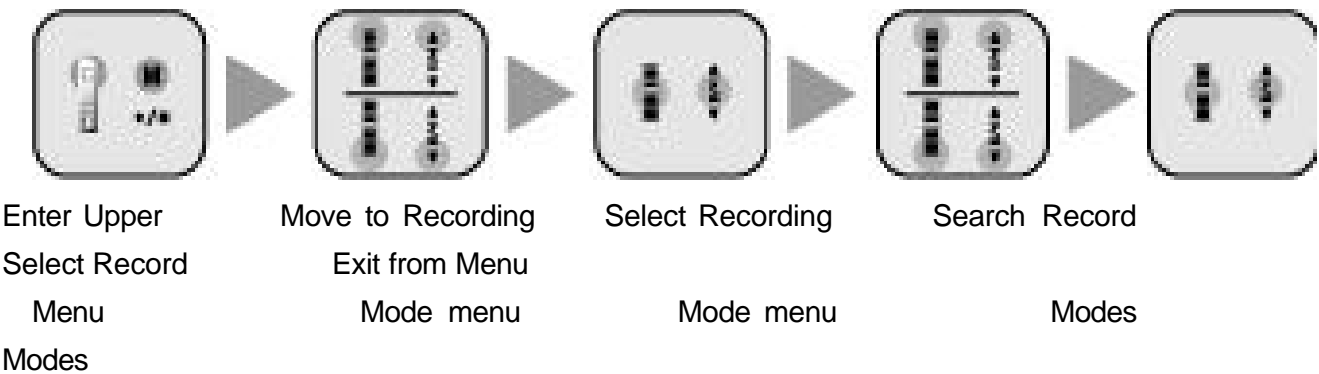
You may set up the sound quality of recording files in four qualities - LQ, HQ, SQ, or SHQ.

Record Modes / Memory Capacity

	LQ (Low Quality)	HQ (High Quality)	SQ (Standard Quality)	(Sup
128M	3480Min	2880Min	1080Min	
256M	6960Min	5760Min	2160Min	1

*Recording Mode Setup

1. Enter Upper Menu by clicking M button in the standby mode.
2. Go to 2. Recording Mode Setup in the upper menu using FF/REW button.
3. Go to the lower menu by pressing Play/Pause button in Repeat Mode Setup menu.
4. Select one of LQ, HQ, SQ, and SHQ record modes using FF/REW button.
5. Press Play/Pause button after selecting a record mode.
6. Press Rec/Stop button while a Recording Mode is selected.
7. The record quality mode is selected and you return to the lower menu.
8. Press Rec/Stop button to exit to Voice Standby Mode.



VOR Setup

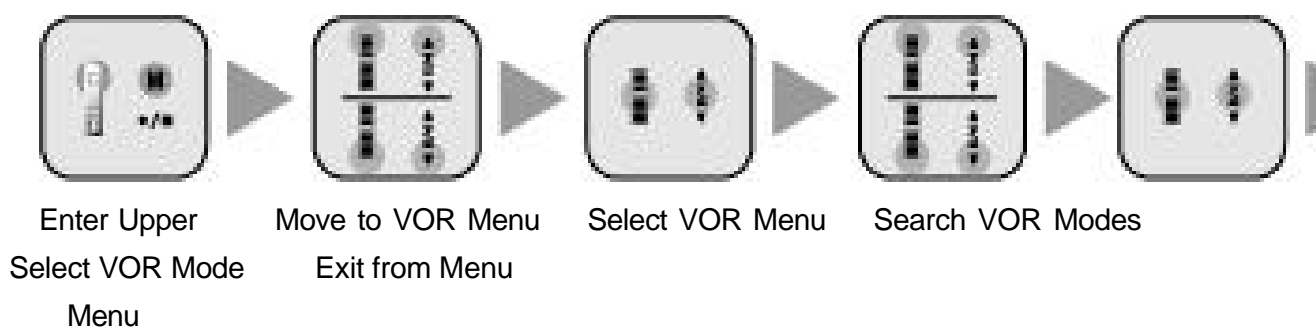
*VOR

You may conserve memory as recording is activated by sound when VOR is on.

The battery is consumed when VOR is On by the same speed as VOR is Off.

*VOR Setup

1. Enter Upper Menu by clicking M button in the standby mode.
2. Go to 5. VOR Setup in the upper menu using FF/REW button.
3. Go to the lower menu by pressing Play/Pause button in VOR Setup menu.
4. Select VOR ON or OFF modes using FF/REW button.
5. Press Play/Pause button after selecting a VOR mode.
6. The mode is selected.
7. Press Rec/Stop button to exit the standby mode.



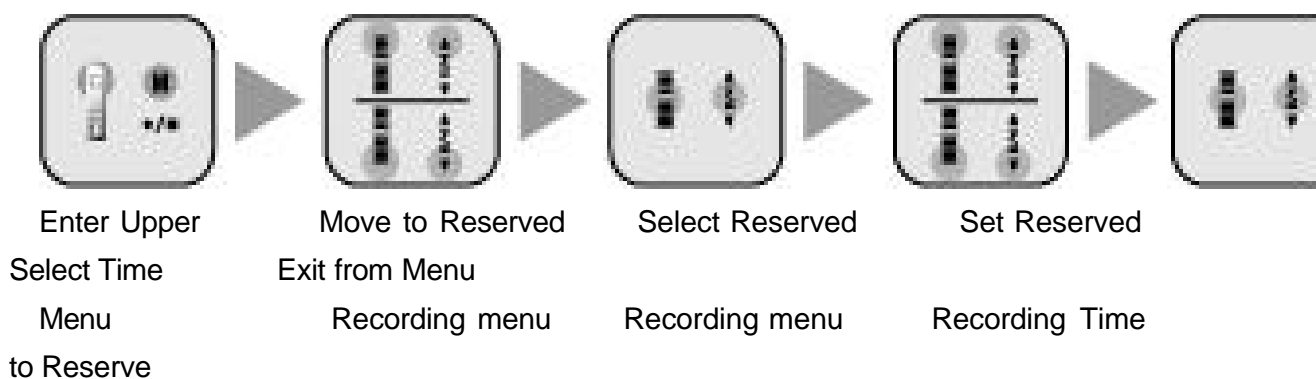
Reserved Recording

*Reserved Recording

You may reserve recording start time up to one hour. Select 00 to cancel the reserved time.

*Reserved Recording Setup

1. Enter Upper Menu by clicking M button in the standby mode.
2. Move to 3. Reserved Recording in the menu using FF/REW button.
3. Go to the lower menu by pressing Play/Pause (*/&) button in Reserved Recording menu.
4. Set up the reserved recording time from 0 to 59 minutes using FF/REW button.
5. Press Play/Pause button again while the time is set.
6. Press Rec/Stop button.
7. The reserved time is selected and you return to the upper menu.
8. Press Rec/Stop button to exit to Voice Standby Mode.



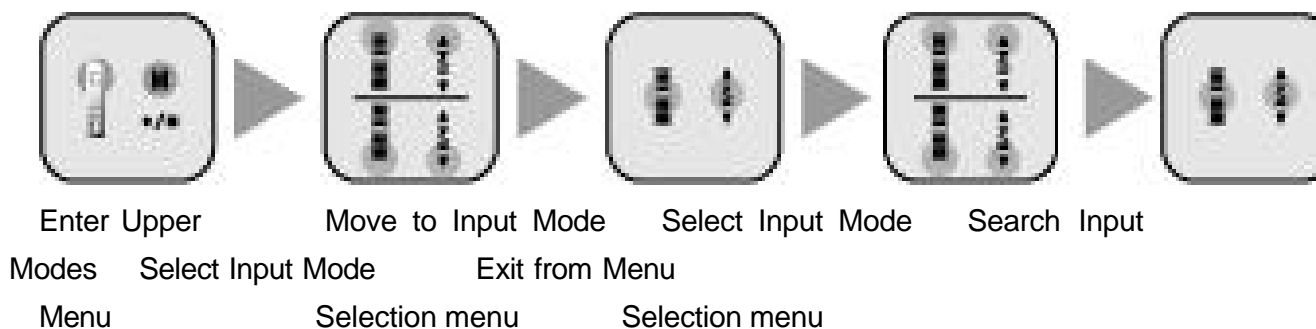
Input Mode Selection

*Input mode setup

You may record by setting up either LINE IN or MIC.

1. Enter Upper Menu by clicking M button in the standby mode.
2. Move to 7. Input Mode Selection in the upper menu using FF/REW button.
3. Go to the lower menu by pressing Play/Pause button in Input Mode Selection menu.
4. Select LINE INPUT or MIC INPUT using FF/REW button.
5. Press Play/Pause button after selecting an input mode.
6. The input mode is selected and you return to the lower menu.
7. Press Rec/Stop button in the lower menu where the input mode is selected.
8. You exit to Voice Standby Mode.

*The selected input mode is applied to recording after the input mode setup.



*Select Line Input when you record by using amplified microphone with Audio Line.

*Select Mic Input when you record using the built-in Microphone.

Play Speed Setup

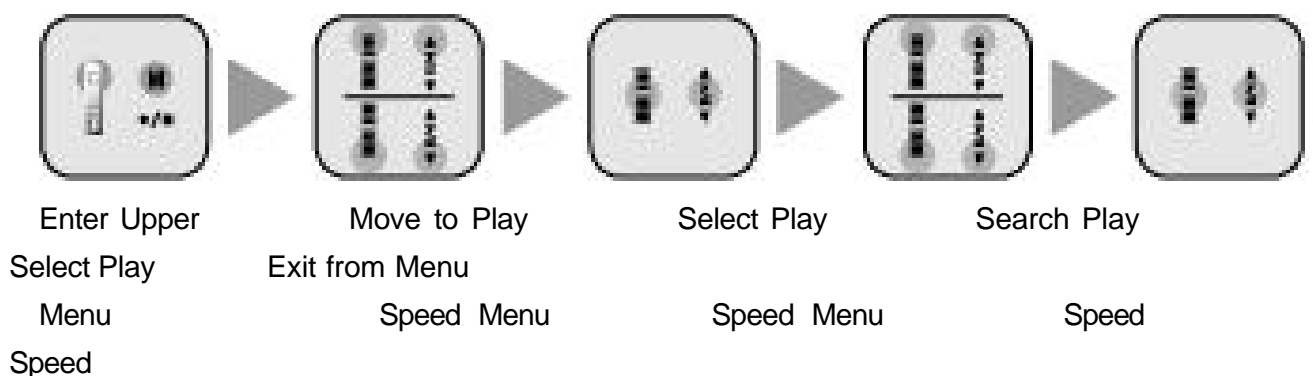
*Play Speed Setup

You may set up the play speed as you desire.

The play speed may be set to any of six speeds - SLOW 1~5 and NORMAL.

1. Enter Upper Menu by clicking M button in the standby mode.
2. Move to 6. Speed Setup in the upper menu using FF/REW button.
3. Go to the lower menu by pressing Play/Pause button in Play Speed Setup menu.
4. Select any of SLOW 1~5, or NORMAL using FF/REW button.
5. Press Play/Pause button after selecting a play speed.
6. The play speed is selected and you return to the lower menu.
7. Press Rec/Stop button in the lower menu where the play speed is selected.
8. You exit to Voice Standby Mode.

*The selected play speed is applied to all files.



Repeat Setup

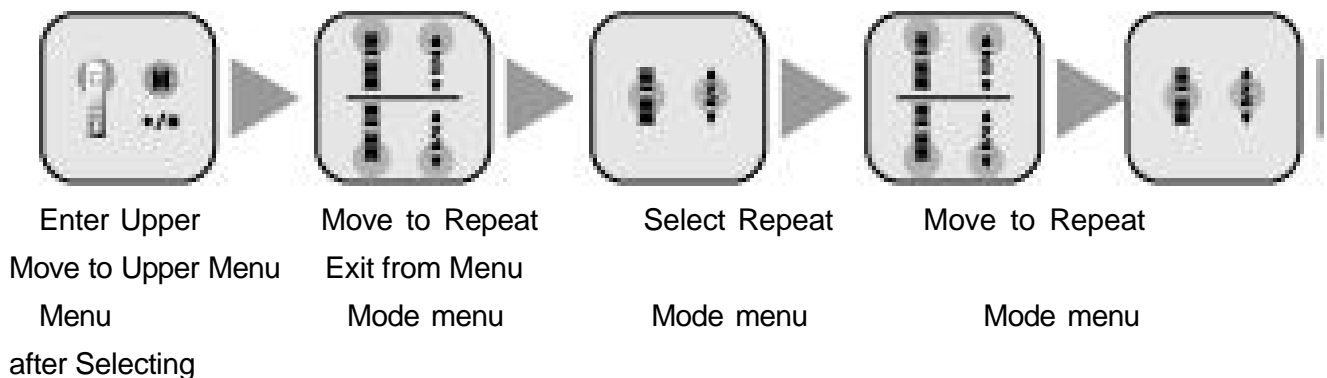
*Repeat Setup

You may set up a total of seven repeat modes - FILE REPEAT, FOLDER PLAY, FOLDER REPEAT, ALL FOLDER PLAY, ALL FOLDER REPEAT, RANDOM PLAY, or RANDOM REPEAT. You may use Section Repeat by clicking Rec/Stop button during playback.

1. FILE REPEAT : Repeats a selected file.
2. FOLDER PLAY : Stops after playing the last piece in a selected folder.
3. FOLDER REPEAT : Repeats all pieces in a selected folder.
4. ALL FOLDER PLAY : Stops after playback of MP3 files of all the folders saved in the unit.
5. ALL FOLDER REPEAT : Repeats playback of MP3 files of all the folders saved in the unit.
6. RANDOM PLAY : Stops after Random playback of a selected MP3 file.
7. RANDOM REPEAT : Repeats Random playback of a selected Voice file.

*Repeat Mode Setup

1. Enter Upper Menu by clicking M button in the standby mode.
 1. Move to 2. Repeat Setup in the menu using FF/REW button.
 2. Go to the lower menu by pressing Play/Pause (*/&) button in Repeat Setup menu.
 3. Select one of the seven repeat modes in the lower menu using FF/REW button.
 4. Press Play/Pause button after selecting a repeat mode.
 5. The repeat mode is selected and you return to the upper menu.
 (Cancel by pressing Rec/Stop button.)
6. Press Rec/Stop button to exit the menu.



R

Repeat Menu

M-PAL Setup

*M-PAL Setup

You may set up the basic functions of M-PAL as follows:

1. LANGUAGE: You may set up Korean, English, Chinese, Japanese, or German.
2. LCD Brightness Setup You may set up the sharpness of LCD display characters. (It may be adjusted in 20 increments, 1 ~ 20.)
3. Backlight Setup: You may set up the time to turn LCD DML backlight on.(It may be adjusted in 5 increments :Always Off,5,10,30 seconds or Always On).
4. Auto Power Off Setup: You may set up Auto Power Off time. (It may be set to 1, 5, 10, or 30 minutes or Always On.)
5. Flash Format: You may set Flash Memory to either LOW FORMAT or FAST FORMAT. (LOW FORMAT: Restores the memory to its default setup.
FAST FORMAT: Deletes all files saved in the unit memory.)
6. View Memory: You may check the total and unused space of the flash memory.
7. PC LINK: You use this function to upgrade your unit firmware by connecting to

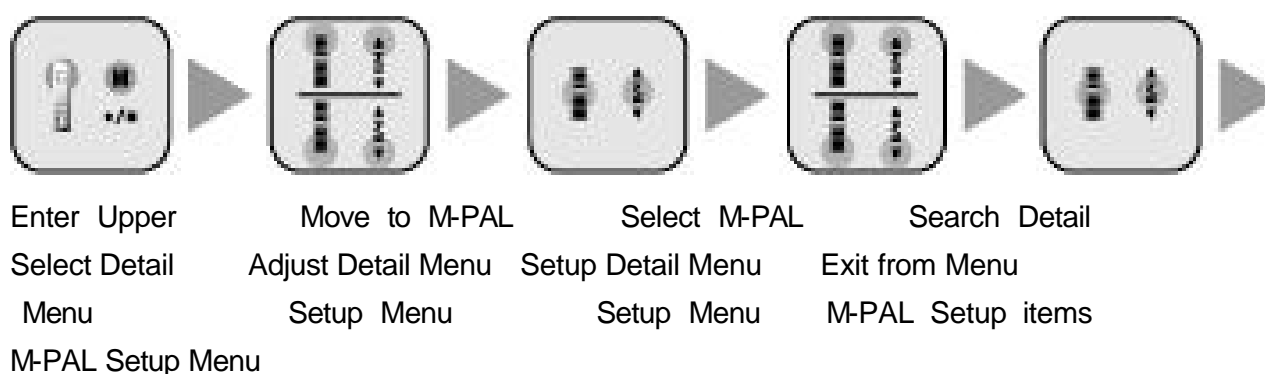
a PC.

8. Country Selection: You may set up the language by selecting a country where the unit is used.
9. To Upper Menu

*M-PAL Setup

1. Enter Upper Menu by clicking M button in the standby mode.
2. Go to 6. CONFIG Setup in the upper menu using FF/REW button.
3. Go to the lower menu by pressing Play/Pause (*/&) button in MPAL Setup menu.
4. Go to LANGUAGE, CONTRAST, EL TIME, AUTO POWER, FLASH FIRMAT, or MEMORY CHECK using FF/REW button.
5. Press Play/Pause once in the selected one out of seven M-Pal Setup menus.
6. Select a detail setup item using FF/REW button after entering the selected M-PAL setup menu and, then press Play/Pause button.
7. Press Rec/Stop button to exit the menu.

*M-PAL setup value is applied until it is revised.



How to Use Voice Recorder

Recording

*Recording

You may record voice or sound.

1. Turn on the power by pressing Rec/Stop button long and change to Voice Recording Mode by pressing Menu key long.
2. Click Play/Pause button.
3. Pause recording by clicking Play/Pause button again.

Voice or sound of less than two seconds is not recorded.

You can record up to 999 files in a folder. Recording is stopped showing FULL

MEMORY when recording time is exceeded.

***Recording in a selected folder**

You may record in a folder you created in advance.

You may select one of the default folders - VA, VB, VC or those created in the computer connected to the unit.

***Recording in next files**

Press FF button to record in another file while recording is in progress. The recording is saved in a file with a number different from the previous file.

***Reserved Recording**

You may reserve recording time in advance. (Refer to page 33.)

***Recording in your selected sound quality**

Recording sound qualities are offered LQ, SQ, HQ, and SHQ in that order. You may select any of them for recording. Refer to Recording Mode Setup on page 32.

***VOR Setup**

You may conserve the memory as recording is activated by sound.

Refer to VOR Setup on page 33.

Battery is consumed when VOR is On at the same rate as in the normal mode. The battery power is exhausted in a given time.

39 How to Use Voice Recorder

Note:

It is recommended you make test recording to avoid failures.

Handy Recording Functions

***Monitoring Recordings**

You can listen to (intercept) recording with the earphone while recording is in progress. Insert the earphone jack into the unit earphone terminal.

***Pausing Recording**

You may pause recording for a while.

1. Click Play/Pause button to pause recording.
2. Click Rec/Stop button to resume recording.

***Note:**

Power is automatically turned off if 15 minutes elapses after a pause.

Playback

*Playback

You may listen to recordings on Voice Recorder through the built-in speaker or earphone.

1. Select the file or folder to play. (Refer to page 19 or 29.)
2. Adjust the sound with Volume button.
3. Click Play/Pause button.
4. Click Play/Pause button again to pause the recording in progress.

*File Search

You may search or select a file using FF/REW button.

*Move to previous or next file

Click FF/REW button while in recording or pause.

*Search

Press and hold FF/REW button while in playback to fast move to another location. The longer you press FF/REW button, the faster it moves. Playback is resumed automatically from the place where you release the button.

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Handy Playback Functions

*Sound Volume Adjustment

The sound volume may be adjusted from 0 to 20 level with Volume button.

Adjust the volume after starting playback at a low volume.

*Play/Pause

You may pause playback for a while.

1. Click Play/Pause button while in playback.
2. Click Rec/Stop button to release the pause.

Power is automatically turned off if 15 minutes elapses after a pause.

*INTRO Playback

The unit plays the beginning part of each file for 5 seconds in sequence.

1. Click Play/Pause button long in the standby mode.
2. The unit plays the beginning part of each file for 5 seconds in sequence.
3. Press Play/Pause button to listen to the end of a file in playback by stopping Intro Play.

*Play Speed Setup

You may play a file at SLOW 1~5 or NORMAL speed.

Refer to Play Speed Setup on page 35.

***Repeat Playback**

The selected files can be played repeatedly in seven ways

Refer to Repeat Setup on page 35.

***Repeat Section A-B**

It plays a selected section repeatedly.

1. The beginning point (A) of a section to repeat is set up when you click Play/Pause button at a desired point while in playback of a file.
2. The ending point (B) is set when you press Play/Pause button long at the point you select. Then, the section between A and B point is played repeatedly.
3. Press Play/Pause button to release the section repeat playback.

Warning:

Do not raise the volume excessively when you listen to recordings with the earphone.
It may damage your hearing.

41 How to Use Voice Recorder

***Note:**

- A file is played from its beginning if you press a button other than Play/Pause button in a pause.

Delete Files

***You may erase files saved in the unit memory.**

You may delete files or folders from the unit memory one by one.

(Refer to Deleting Methods on page 34.)

***Delete Single Files**

You erase one file while in recording.

The number of files next to a deleted file is moved up by one.

Ex.) If file No. 2 is deleted, file No. 3 becomes file No. 2.

Erased files or folders cannot be restored. Ensure a file is to erase before deleting it.

***Deleting All Files in a Folder**

It deletes all files saved in a folder.

Erased files or folders cannot be restored. Ensure a file is to erase before deleting it.

*Warning:

-Do not raise the volume excessively when you listen to recordings with the earphone.

It may hurt your hearing.

-Adjust the volume after starting playback at a low volume.

Formatting

*Formatting

Formatting erases all recordings.

1. LOW FORMAT: Deletes all files saved on the unit and restores all functions to the default.

2. FAST FORMAT: Deletes all files only maintaining the functions set up.

*Note:

Erased files or folders cannot be restored. Ensure if to format before starting Format.

43. RADIO MENU

MENU

*Select Play/Pause button after entering Menu



(Exit from Menu by Rec/Stop button)













MENU	Upper Menu	Lower Menu	Menu Description
MENU (M button)	1.Auto Selection of Music Piece	1. Auto Selection of Music Piece	Saves or deletes frequency of fi automatically scanning frequency.
	2. Record Modes	1.MONO 2.Stereo	You may select Record Modes Recording Mode Setup
	3.Sleep Mode		The unit automatically stops Sleep Mode is set up.
	4.FM Region setup		You may change the frequency based on the user Region.

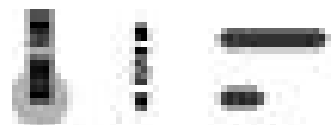
	5. M-PAL Setup	1.LANGUAGE. 2. LCD Brightness Setup 3.Backlight Setup 4.Auto Power Off Setup 5.Flash Format 6. View Memory 7. PC LINK 8. Country Setup 9. To Upper Menu	You may select language, brightness, illumination, auto power off, memory format, memory view. You can upgrade these functions through the FIRMWARE UPGRADE by selecting PC LINK.
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*Above is RADIO MENU.

44. RADIO MODE

 - Press and hold (long pressing)  - Click (short pressing)

Button Operation	Key	SCAN MODE	Preset MODE
		Volume keeps increasing	Volume keeps increasing
		Volume increases by 1 step	Volume increases by 1 step
		Volume keeps decreasing	Volume keeps decreasing
		Volume decreases by 1 step	Volume decreases by 1 step
		Mode changed	Mode changed
		Enter Radio Menu	Enter Radio Menu
		POWER OFF	POWER OFF
		Start recording	Start recording
		Scanning move to previous frequency step	
		Move to previous frequency by 1 step	Move to previous frequency as saved
			Save current frequency
		SCAN/PRESET MODE Change	SCAN/PRESET MODE Change

	Scanning move to next frequency step	
	Move to next frequency by 1 step	Move to preset previous frequency

*Auto Selection of Music Piece (PRESET)

Auto Selection Setup of Music Piece (PRESET)

You may save a broadcasting frequency by setting up a preset music piece.

In SCAN MODE, PRESET MODE (AUTO SCAN Saving)

1. Enter Upper Menu pressing M button.
2. Press Play/Pause button in 1. Preset of the menu.
3. The music pieces are saved in sequence if frequency is saved.

Change of PRESET Setup

You may change a broadcasting frequency by setting up a PRESET on the unit.

1. Press Play/Pause button long in SCAN mode.
2. Move to a saved frequency or an empty channel using ff/REW button.
3. Press Play/Pause button long.
4. The selected frequency is saved in the selected channel.

-You enter Preset mode by clicking Play/Pause button. You can listen to the saved frequency using FF/REW button in the Preset mode.

45 .

Recording Mode Setup

*Record Mode

You may set up the recording quality in MONO and STEREO.

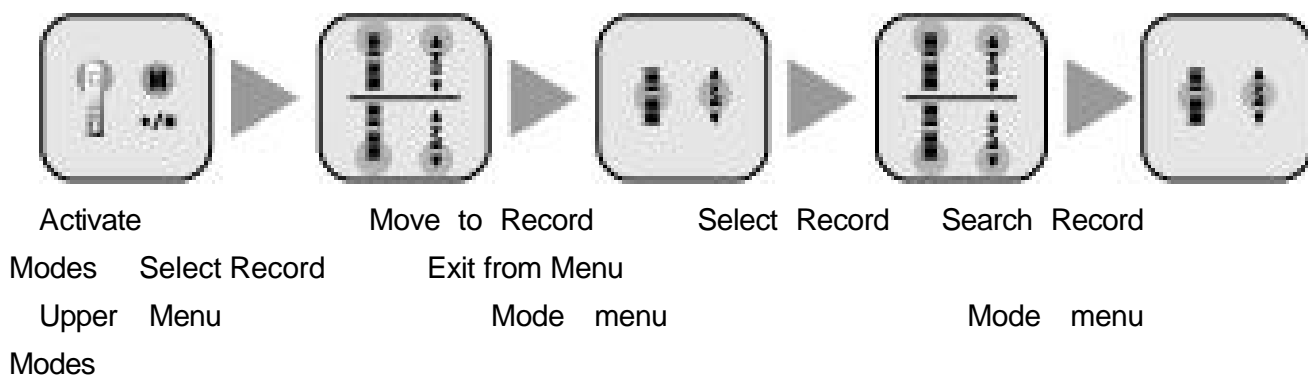
(It is recorded in MP3 file when Rec/Stop button is pressed in RADIO mode.)

1. MONO : Supports 128 Kbps recording quality.
2. STEREO : Supports 128 Kbps recording quality.

*Recording Mode Setup

1. Activate Upper Menu by clicking M button in the standby mode.
2. Go to 2. Record Mode Setup in the menu using FF/REW button.
3. Go to the lower menu by pressing Play/Pause button in Repeat Mode Setup menu.

4. Select MONO or STEREO recording mode using FF/REW button.
5. Press Play/Pause button in the selected recording mode.
6. The record quality is selected and you return to the lower menu.
7. Press Rec/Stop button to exit the RADIO mode.



Sleep Mode

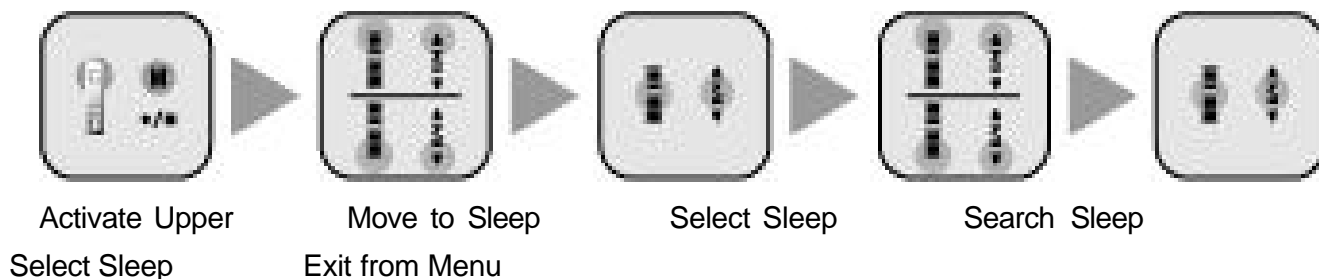
* Sleep Mode

You may set up Auto Power Off time.

Sleep mode is set up by 30 minutes increment between Off and maximum two hours.

*Sleep Mode Setup

1. Activate Upper Menu by clicking M button in the standby mode.
2. Go to 3. Sleep Mode Setup in the menu using FF/REW button.
3. Go to the lower menu by pressing Play/Pause button in Sleep Mode Setup menu.
4. Search the time to finish using FF/REW button.
5. Press Play/Pause button again while the time is selected.
6. Press Rec/Stop button.
7. The record quality is selected and you return to the lower menu.
8. Press Rec/Stop button to exit the RADIO mode.



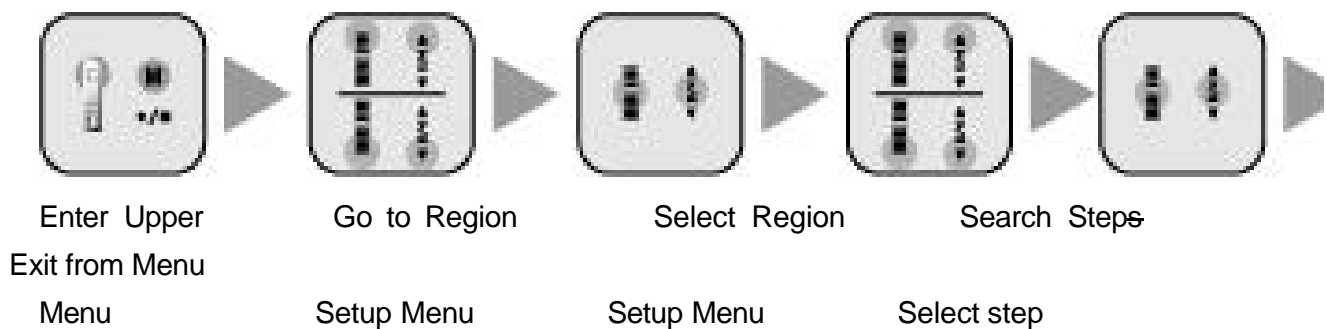
Menu	Mode menu	Mode menu	Mode time
Mode menu			

FM Region setup

*FM Region setup

Select the frequency range of the user region.

1. Activate Upper Menu by clicking M button in the standby mode.
2. Move to 4. Region Setup in the menu using FF/REW button.
3. Enter Region Setup menu by pressing Play/Pause (*/&) button in Region Setup menu.
4. Select one using FF/REW button.
5. Press Play/Pause button in either 50K STEP or 100K step.
6. Press Rec/Stop button to exit the menu.



M-PAL Setup

*M-PAL Setup

You may set up the basic functions of M-PAL as follows:

1. LANGUAGE: You may set up Korean, English, Chinese, Japanese, or German, etc.
3. LCD Brightness Setup: You may set up the sharpness of ~~LCD~~ display characters. (It may be adjusted in 20 increments, 1 ~ 20.)
10. 4. Backlight Setup: You may set up the time to turn LCD ~~DML~~ backlight on. (It may be adjusted in 5 increments :Always Off,5,10,30 seconds or Always On).
5. Auto Power Off Setup: You may set up Auto Off time. (It may be set to 4, 5, 10, or 30 minutes or Always On or Off)

6. Flash Format : You may set up Flash Memory to either LOW FORMAT or FAST FORMAT. (LOW FORMAT: Restores the memory to its default setup.

FAST FORMAT: Deletes all files saved in the unit memory.)

7. View Memory: You may check the total and unused space of the flash memory.

8. PC Link: You use this function to upgrade your unit firmware by connecting to a PC.

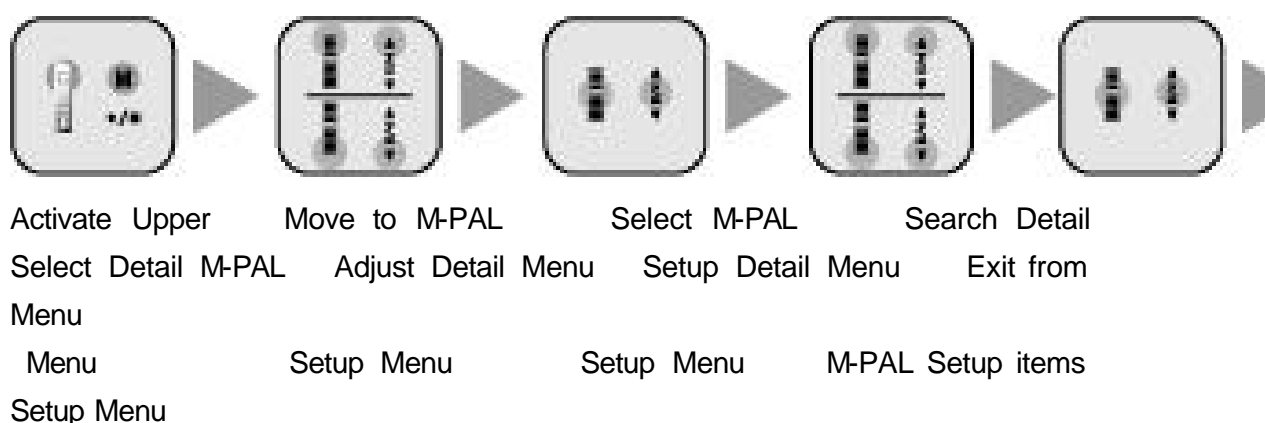
9. Country Selection: You may set up the language by selecting a country where the unit is used.

9. To Upper Menu

*M-PAL Setup

1. Activate Upper Menu by clicking M button in the standby mode.
2. Move to 5. M-PAL Setup in the menu using FF/REW button.
3. Go to the lower menu by pressing Play/Pause (*/&) button in M-PAL Setup menu.
4. Go to LANGUAGE, LCD Brightness Setup, Backlight Setup, Auto Power Off Setup, Flash Format, View Memory, or PC LINK using FF/REW button.
5. Press Play/Pause button once in the selected menu out of seven M-PAL menus.
6. Select a detail setup item using FF/REW button after entering the selected M-PAL setup menu and, then press Play/Pause button.
7. Press Rec/Stop button to exit the menu.

*M-PAL setup value is applied until it is revised.



How to Use Radio

Using radio functions

Switching to radio functions

To switch the mode, press M button long in Standby mode while power is on.

*You should use the earphone to listen to radio as the earphone functions as antenna.

-Note

You may switch to Voice, MP3 or Radio mode when all functions are deactivated.

Scan Frequency Steps

You may locate broadcast frequencies either by Auto or Manual Scan. You may then listen to a broadcast using the Preset frequency.

1. Automatic search of frequency steps

Press FF/REW button long while listening to radio. You may listen to radio by automatically searching broadcast frequency.

2. Manual search of frequency steps

The frequency rises by 1 step each time you click FF/REW button while listening to radio.

3.. You can save up to 20 frequency channels using the preset function.

.

Frequency saving (Memory function)

You can save the broadcasting frequency you're listening to as one of the 20 preset numbers.

You can select the saved channel without seeking the frequency again.

Playing back the saved frequency (Preset mode)

You can play back the frequency saved in the player. Press the FF/REW button to seek the intended channel number.

.

Erase Preset Setup

You may change a broadcasting frequency by setting up a PRESET on the unit.

* The saved frequency numbers are highlighted when you select them with FF/REW button.

*Note:

-Up to 20 frequency steps may be saved (preset).

-Frequency step saving is available in Memory Scan mode.

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Handy Radio Listening Functions

Record Modes

You may set up the recording quality and save recording files in MP3 in FM Radio folder.

Region Setup

You may change the frequency range based on the user district.

Recording while listening to radio

Recording radio broadcast

You may record what you hear on the radio.

1. Recording starts when you press Rec/Stop button while listening to radio.
2. Pause recording by clicking Rec/Stop button again.

Note:

-The recording file is saved in MP3 in FM Radio folder

You may play the recording by switching to Radio folder in MP3 mode.

* Refer to Mode Setup on page 9.

Handy Recording Functions

Pausing Recording

You may pause recording of the radio program.

1. Click Play/Pause button to pause recording.
2. Click Play/Pause button again to resume recording.

51.

Connecting to external devices

Recording Sound from the External Devices

You may record on the voice recorder from an external device.

1. Connect the audio cable between the output terminal of the external device and the LINE-IN of the voice recorder.
2. Set the volume of the external device. The sound may be warped if the volume

level of the external device is too high.

3. Press the play button of the external device and the record button on the voice recorder.

Note:

- You can record in Stereo and may monitor recording quality with the earphone.
- Record with LINE IN after switching to MUSIC (MP3) mode.
- The recording file is saved in MP3 in MP3 folder

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When recording Voice Recorder files on an external device

You may transfer the Voice Recorder recordings to an external device.

Connect the Audio cable between the unit earphone terminal and the input terminal of the external device. Press Play/Pause button of the unit and Record button of the external device.

Note:

- Test recording first.
- Set volume using the volume control of the external device.

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EARPHONE JACK of External Device

LINE IN CABLE

LINE-IN JACK

52

M-PAL EARPHONE JACK

LINE IN CABLE

MIC JACK of External Device

53.

Connecting to PC

USB Interface

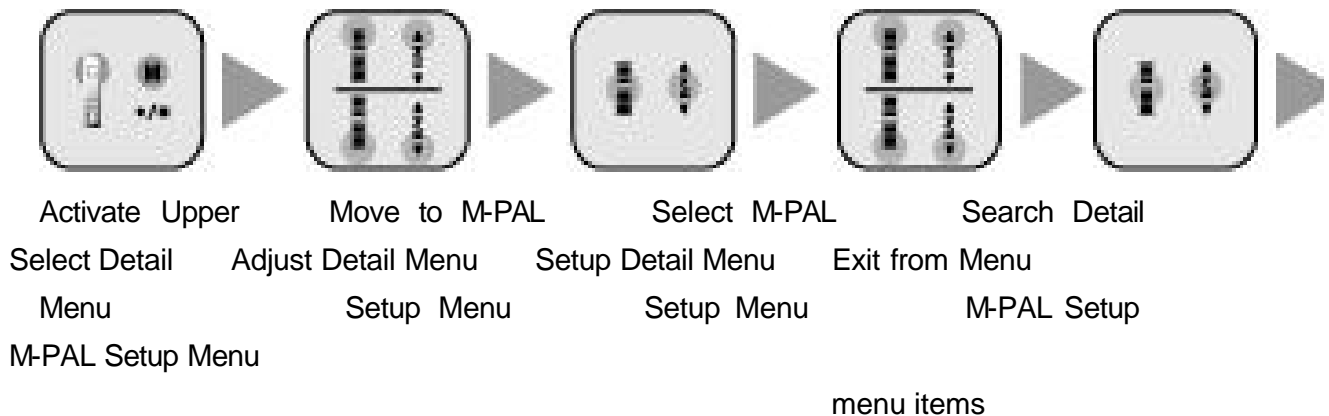
You can exchange data between the unit and a PC with USB cable as the PC is recognized as hard disc.

Download or upload data from or to the PC by opening Windows Explorer.

Connect after selecting Firmware in M-PAL menu before connecting to a PC with USB cable.

Connecting with USB Interface

1. Enter Upper Menu by clicking M button in the standby mode.
2. Move to M-PAL Setup in the menu using FF/REW button.
3. Go to the lower menu by pressing Play/Pause (*/&) button in MPAL Setup menu.
4. Go to FIRMWARE UPGRADE using FF/REW button.
5. Press Play/Pause button in FIRMWARE UPGRADE menu.
6. Connect to the PC by inserting the USB cable. *M-PAL setup values are applied until they are changed.



PC Program Manual

*PC Requirements for Connecting to M-PAL

USB installed WINDOWS 98, WINDOWS ME, WINDOWS 2000, or WINDOWS XP.

(WINDOWS NT not supported) Pentium 200Mhz or higher

64MB memory or more

10MB or more hard disc space

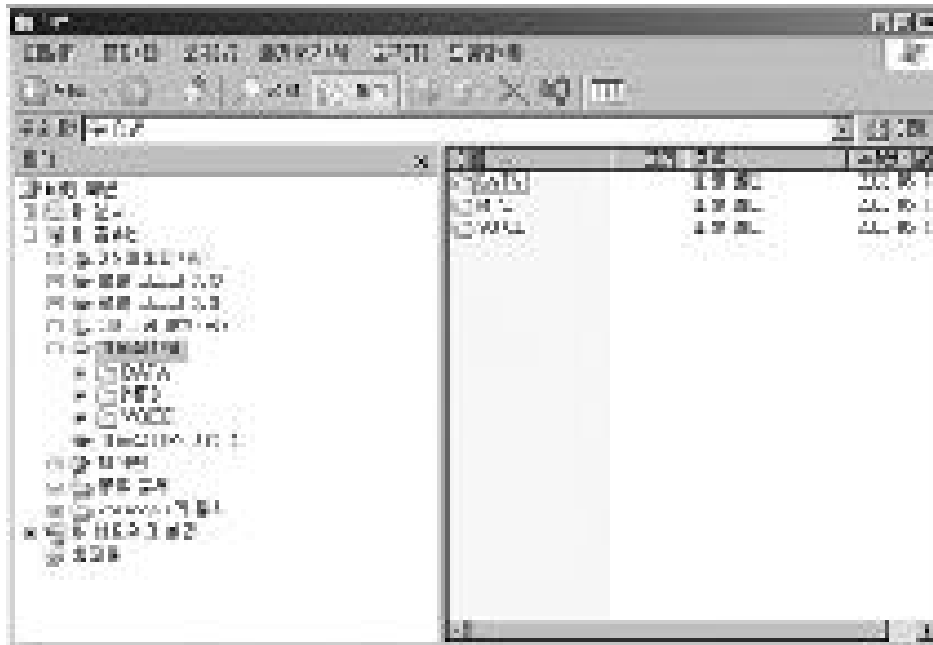
USB interface

CD-ROM drive



Connecting to PC

*Screen showing file handling in Windows Explorer

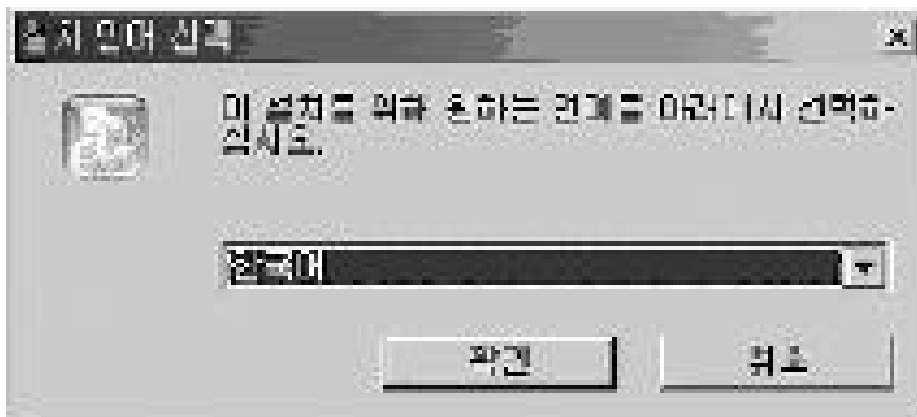


*Firmware upgrade and font download are handled as follows:

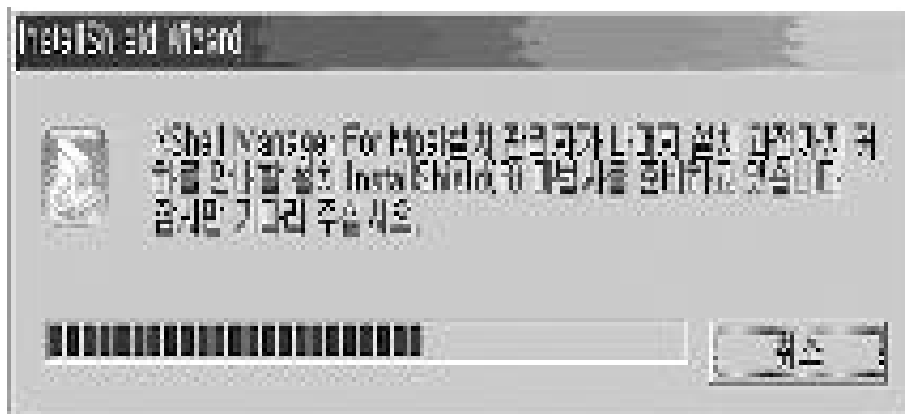
Installing XSHELL MANAGER FOR M-PAL

- Insert M-PAL software CD in the PC CD-ROM drive.

Install screen of XSHELL MANAGER FOR M-PAL appears.



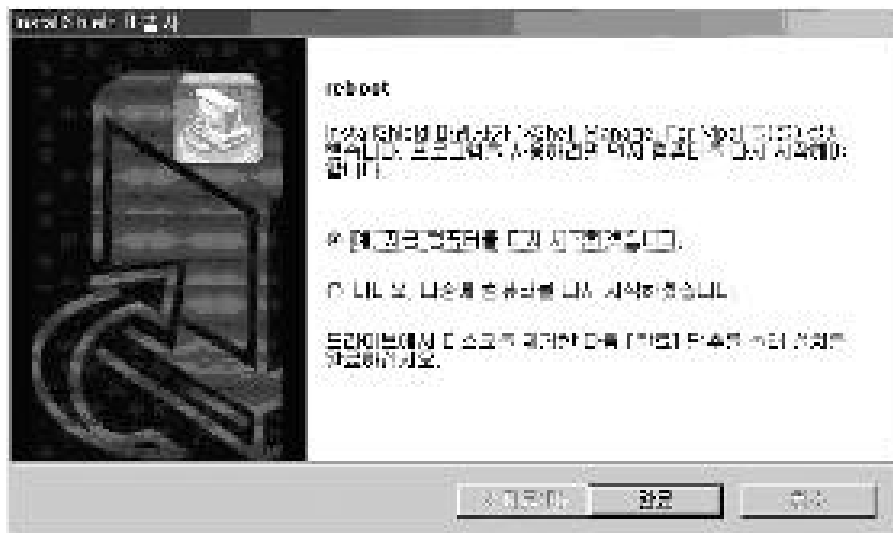
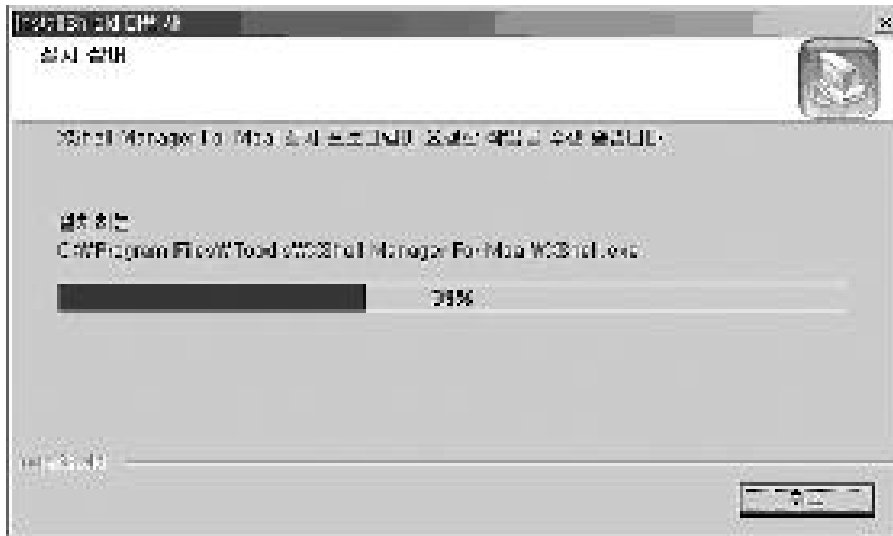
*Select Language and confirm.



*Press [Next].



*You should consent to this agreement to install XSHELL MANAGER FOR M-PAL.
Press [Yes].



Press [Finish] button after selecting your desired options.

Connecting to PC

*You need to set up M-PAL PLAYER as M-PAL Management Mode menu when firmware upgrade and XSHELL MANAGER FOR M-PAL installation are finished.

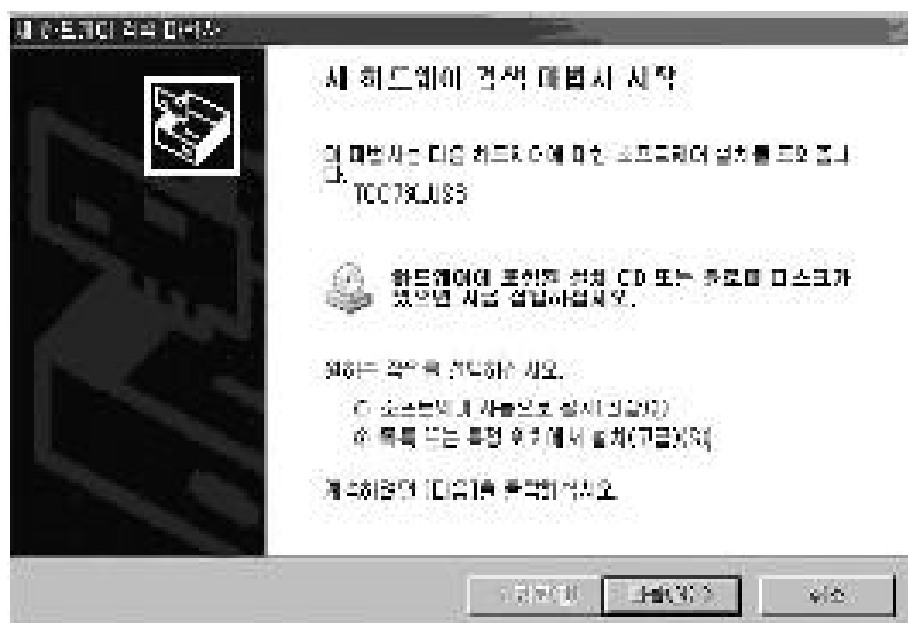
Enter M-PAL Management Mode menu of M-PAL PLAYER.

*Connect the PC and M-PAL PLAYER with USB cable.

~~~Connection screen appears.

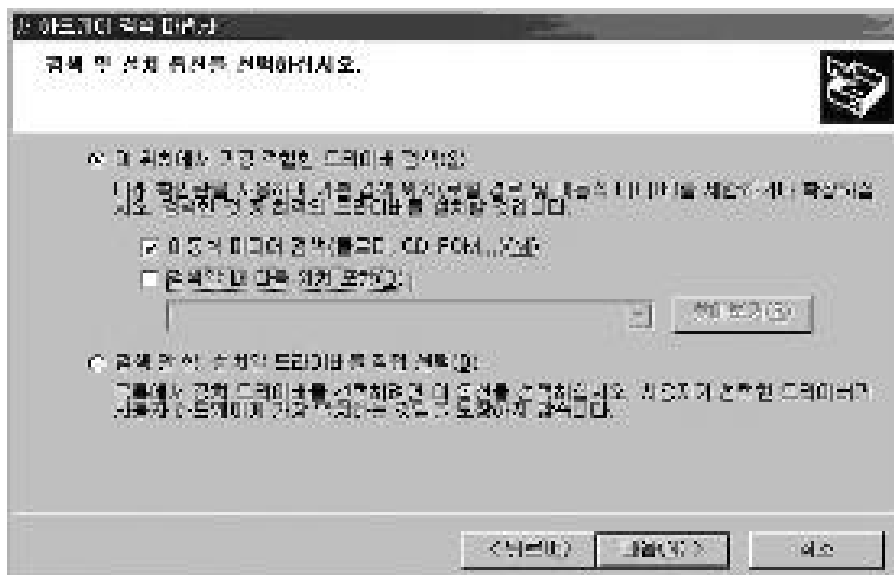


\*SB driver install screen for M-PAL management mode appears on the computer when connected.

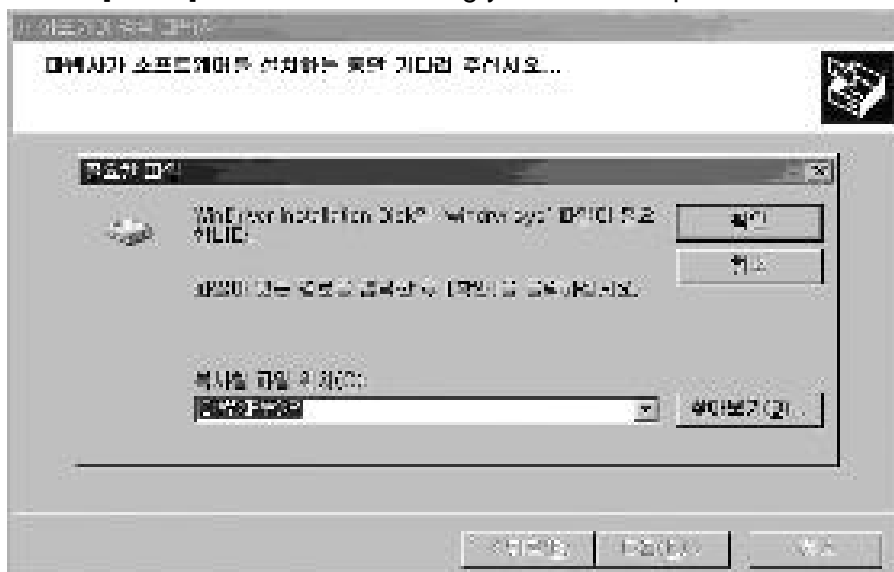




\*Press [Next].



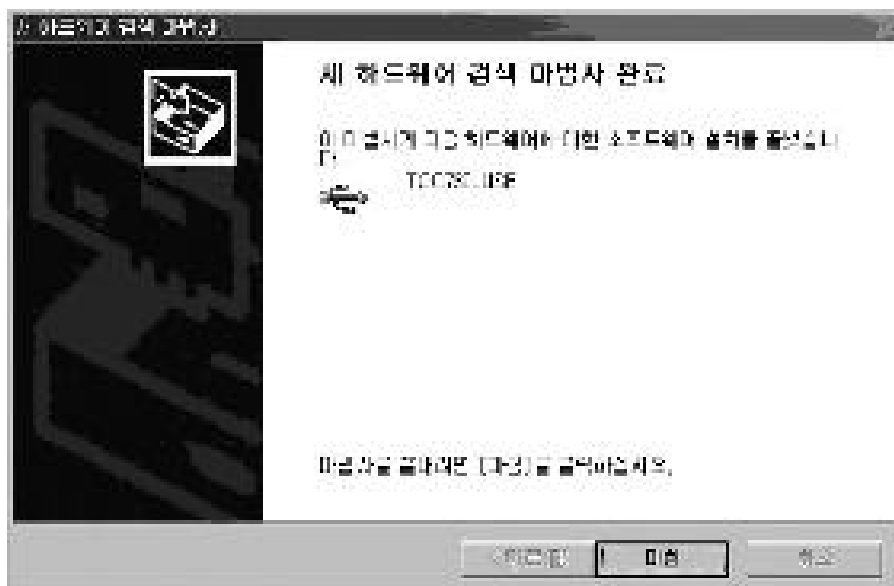
\*Press [Finish] button after selecting your desired options.



Enter the file path and press [Confirm].

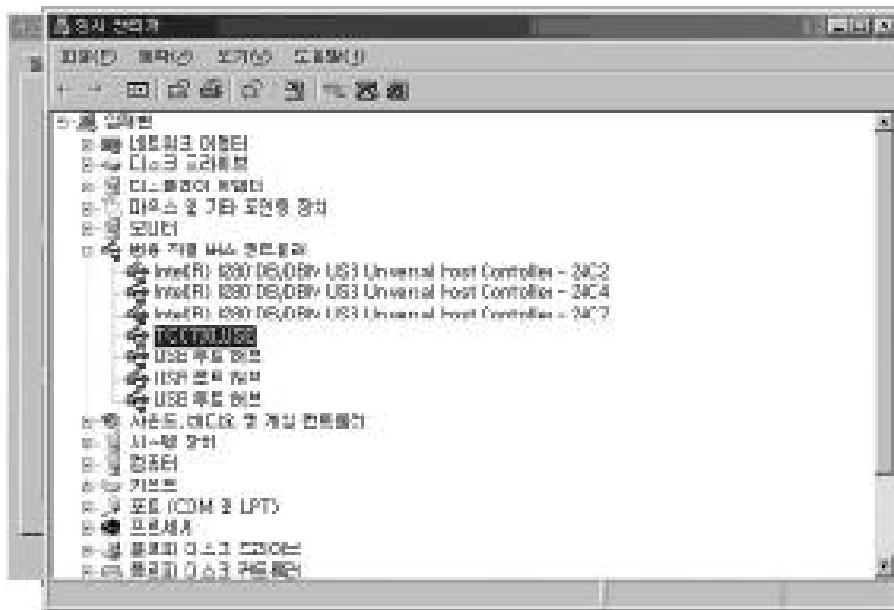


Press Confirm button after selecting CD-ROM drive in Windows Explorer.



\*Press Finish to finish the Wizard.

\*The driver is installed to the USB controller of the Device Manager as shown below when installation is finished.



\*Run XSHELL MANAGER FOR M-PAL when M-PAL PLAYER and PC are connected after all installations are finished.

#### Description of Key Features

**Firmware Upgrade:** You can upgrade M-PAL PLAYER to its latest functions through Firmware Upgrade. You can use the latest version of M-PAL functions through the firmware upgrade.

#### \*How to Upgrade Firmware

- Select Upgrade Firmware in XSHELL MANAGER FOR M-PAL menu.
- Select the firmware version to upgrade.
- Press Start Upgrade Firmware button after selecting the firmware version.
- Close XSHELL MANAGER FOR M-PAL when the firmware is upgraded. Reboot M-PAL PLAYER after terminating it releasing connection between USB and M-PAL. You may check the firmware version as upgraded.

(Connect to PC after selecting PC-LINK menu in M-PAL Setup menu.)



CAUSE HARMFUL INTERFERENCE, AND (2) THIS DEVICE MUST ACCEPT ANY INTERFERENCE, RECEIVED, INCLUDING INTERFERENCE THAT MAY CAUSE UNDERSIRED OPERATION.

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.

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.