MP-430T User's Manual

Features

◎ **Multi-Codec Player**

- MP3, WMA, OGG(Q10) Support

◎ **Voice Recording**

- Voice, Line In, FM Radio

- 32KHz, 44.1KHz Sample Rate

- 32Kbps ~ 128Kbps Bitrate

◎ **Firmware Upgrade**

◎ **Graphic LCD supporting multiple languages**

◎ **Lyric support**

◎ **FM Radio**

- FM area setting

- FM sensitivity setting

◎ **Clock & Reservation & Alarm**

◎ **7 Equalizer Types (EQ)**

- Normal, Rock, Jazz, Classic, Pops, User, SRS

◎ **SRS WOW support**

◎ **File Browser**

- Supports the file browser for both play and stop mode.

◎ **Bookmark, Playlist Browser**

- Supports bookmark and playlist browser
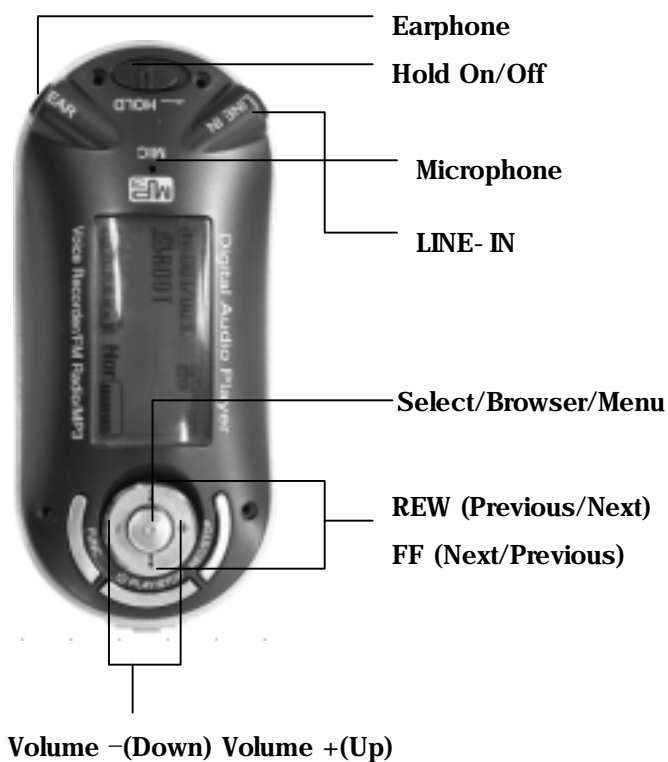
- Adds or deletes bookmark and playlist

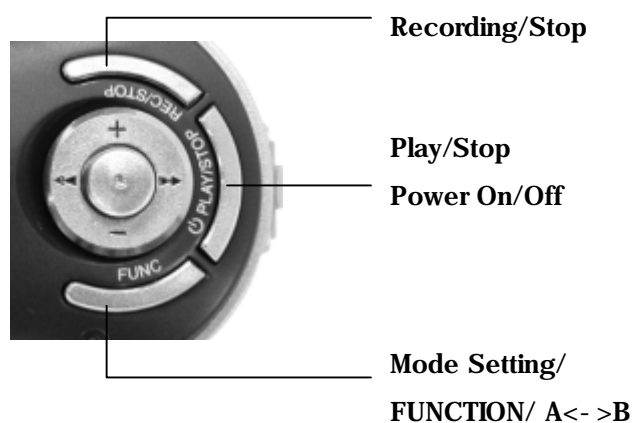◎ **Tab-type Menu**

- Easy to check the settings

◎ **USB 1.1 Support**

Name of the Parts

Front View

Earphone

Hold On/Off

Microphone

LINE- IN

Select/Browser/Menu

REW (Previous/Next)

FF (Next/Previous)

Volume −(Down) Volume +(Up)

Rear View

Necklace Hole

RESET

Recording/Stop

Play/Stop

Power On/Off

Mode Setting/

FUNCTION/ A<- >B

USB Connection Terminal

Description on LCD

Audio Play

File Number ↓   ↓Play Time ↓ Repeat

Status → ▷ 018 03:29 🔁ALL 🔒 🔋 ← Hold, Battery Icon

Dir Icon → 🖥ROOT ← Directory name

04.Moon River ← File Name or ID3 Tag

File Type → MP3 192KBPS 44.1KHZ VOL18 ← Directory name

Bitrate, Sample Rate ↑   ↑ Left UI : Clock/EQ/Volume/Level Meter

Lyric

File Number ↓   ↓Play Time ↓ Repeat

Status → ▷ 018 03:29 🔁ALL 🔒 🔋 ← Hold, Battery Icon

An empty street ← Lyric Line 1

An empty house ← Lyric Line 2

File Type → MP3 192KBPS 44.1KHZ VOL18

Bitrate, Sample Rate ↑   ↑ Left UI : Clock/EQ/Volume/Level Meter

FM Radio

Clock → 03 : 15 PM 📶 🔋 ← Battery

Stereo/Mono Indicator → ◀ ▶ PRESET 1-01 ← Preset Indicator/Number

STEREO 87.50Mhz ← Frequency

87.5 KOREA 108 ← Frequency Map

Recording

↓ Recording Status

● RECORDING... 🔋 ← Battery

VORC001 ← Recording File Name

00:01:58 ← Recording Time

← Recording Bar

01:43:53 ← Remain Time

Menu

← Sub Menu Title
← End Menu Title 1
← End Menu Title 2
← End Menu Title 3

↑ End Menu Status   ↑ Scroll Bar

← Popup Menu

Basic Functions

1) Lock / Unlock

Push Up/Down

Lock: Push the **HOLD** switch up to the arrow direction.

Unlock: Push the **HOLD** switch down to the arrow direction.

☞ **Note** ☜

▶ You can prevent button operation when you set the **HOLD** switch.

▶ If you press any button while the **HOLD** switch is locked, the "KEY HOLD" message for about 2 seconds and button input will be disabled.

2) Power On / Power Off

Press Longer

Power On: Press the **PLAY/STOP** button longer than 2 seconds to turn on the player.

Power Off: Press the **PLAY/STOP** button longer than 2 seconds to turn off the player.

3) Volume Control

Push down/up
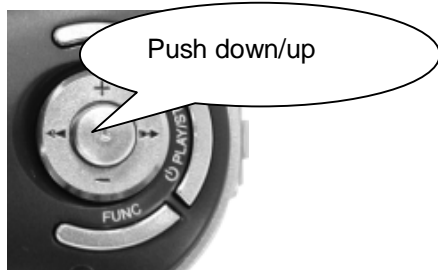
Press the **+(Up)/-(Down)** button shortly to increase the volume by 1 step, or hold the button to increase the volume continuously.

Warning

● **Do not increase the volume too high during playback using an earphone. Your hearing ability can be impaired.**

● **Turn the volume down first and increase to the one you want.**

4) Mode Switching

| **Audio Play** | **FM Radio** | **Recording** | **System Menu** |

Press the **SELECT** button longer once.

Use the **REW(◀◀)/FF(▶▶)** button to select the mode you want, and press the **SELECT** button again to enter into the selected mode

1) Audio Play Mode: MP3, WMA or OGG audio file playback

2) FM Radio Mode: FM radio listening

3) Voice Mode: Voice, Line in or FM radio recording

4) System Menu Mode: System setting.

☞ **Note** ☜

▶ Press the **REC/STOP** button in the audio play mode to start voice recording.

▶ To enter into the menus of each mode, move to the target mode using the **REW(◀◀)/FF(▶▶)** button and press the **+(Up)** button.

Audio Play Mode

1) Switching to the Audio Play Mode

Press the **SELECT** button longer once to change the mode if you have selected the mode other than the audio play mode.

Use the **REW(◀◀)/FF(▶▶)** button to select the audio play mode and press the **SELECT** button to switch to the audio play mode.

Press longer

2) Playback/Stop

Press shortly

Playback: Press the **PLAY/STOP** button shortly once.

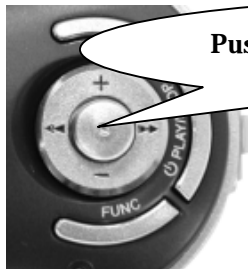**Stop**: Press the **PLAY/STOP** button shortly once again.

▶ 018 03:29 ALL

📠ROOT

04.Moon River

MP3 132KBPS 44.1KHZ   VOL18

Playback

⏸ 046 02:31 DIR

📠ROOT

04.Moon River

07:30 AM ROCK

Stop

3) File Search/Navigation/Selection

Push to the left/right shortly once.

<Moving to the previous/next file >

Push to the **REW(◀◀)/FF(▶▶)** direction shortly once during playback.

<Navigation>

Push to the **REW(◀◀)/FF(▶▶)** direction longer once during playback.

<Selecting the previous/next file >

Push to the **REW(◀◀)/FF(▶▶)** direction shortly once **during stop**.

☞ **Note** ✎

▶ **If the Study key function is engaged, press the REW(◀◀)/FF(▶▶) button to skip playback of the current file by the designated time period.**

4) Audio Setting Mode

Press the **FUNC** button longer in the stop or playback mode to enter into the audio setting mode.

Press the **FUNC** button to change the audio setting mode to **EQ Setting** ⇒ **Repeat Setting** ⇒ **Play Speed.**
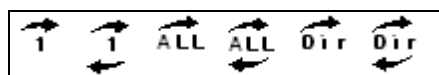

Press longer

EQ Setting

▶ Set the EQ mode using the **+(Up)/-(Down)** button. (Normal ⇒ Rock ⇒ Jazz ⇒ Classic ⇒ Pops ⇒ User ⇒ SRS)

▶ Set the level of 5 bands using the **REW(◀◀)/FF(▶▶)** button.(Except the normal and SRS mode)

Repeat setting

▶ Press the **+(Up)/-(Down)** button to change the repetition mode, or press the **REW (◀◀)/FF(▶▶)** button to change the repetition region.

Press the **REC/STOP** button to set the shuffle mode.

Play Speed

▶ Press the **REW(◀◀)/FF(▶▶)** button to select playback speed you want.

Playback speed control is applicable for the file currently being played back.

☞ **Note** ☜

▶ To return to the stop or playback mode in any setting mode, press the **SELECT** button or **PLAY/STOP** button.

5) Sector Repetition (A↔B)

Plays back the selected sector repetitively.

Press shortly

On: Press the **FUNC** button once shortly during playback to set the A point. Press the **FUNC** button shortly again to set the B point. Then, playback will be repeated between the point A and B.

Off: Press the **FUNC** button once shortly.


Setting A Point

Setting B Point

4) Browser Mode

Press shortly

If you press the **SELECT** button in the audio play mode or recording wait mode, the browser mode will be selected. Or, if you press the **FUNC** button in the browser mode, the browser mode will be switched between "File Browser" ⇒ "Bookmark Browser" ⇒ "Playlist Browser".

① File Browser: Browser displaying the directory and files. -- Run in the audio playback mode or the recording wait mode.

② Bookmark Browser: Browser displaying the bookmark – Run in the audio playback mode only.

③ Playlist Browser: Browser displaying the playlist – Run in the audio playback mode.

☞ **Note** ☜

▶Bookmark : Keeps record of the file name and current playback time during audio file playback.

▶Playlist : A list of files that you want to play back, like the M3U in the Winamp (Similar to the program function of the CD Player)

<File Browser>

| **MUSIC** | **RECORD** | **ETC** |
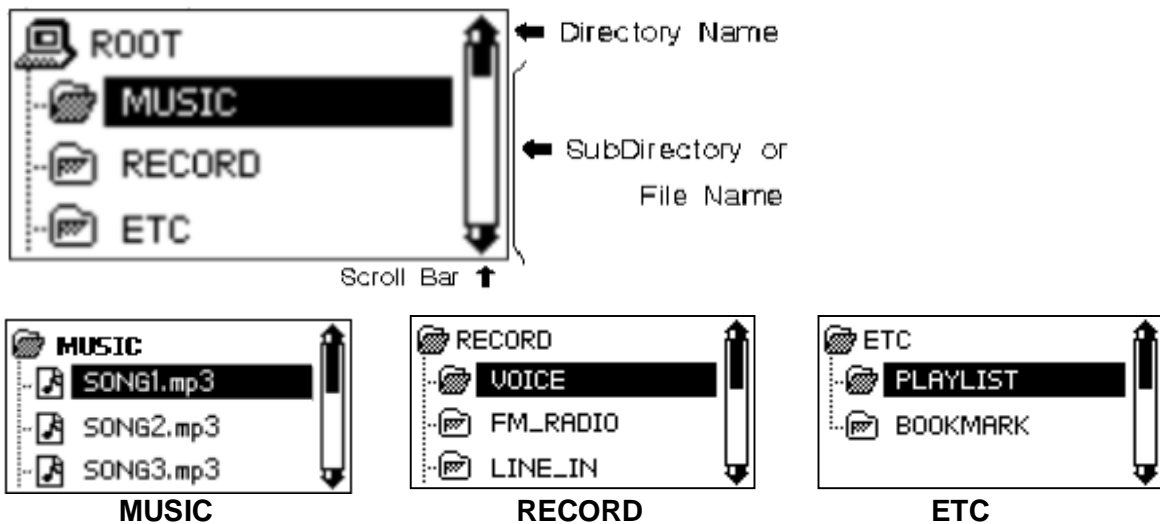
① Finding a directory or a file

Move to the directory or the music file you want, using the **+(Up)/-(Down)** button.

② Selecting a directory or a file

Press the **PLAY/STOP** button, **SELECT** button or the **FF** button shortly to move to the target directory if you press the button on the directory name, or the file browser will be closed and the selected file will be played back if you press the button on the file name.

③ Moving to the upper folder

Press the **REW** button to move to the upper director if it is not the root directory.

④ Exit from the file browser

Press the **SELECT** button longer once to exit from the file browser.

- If you're in the root directory, the file browser will be closed when you press the **REW** button.

<Bookmark Browser>

- You can set up to 99 bookmarks.

① Saving a bookmark.

- If you press the **REC/STOP** button while playing back the audio file, the file name and the current playback time will be recorded.

- The saving location will increase sequentially: 99 ⇒ 01 ⇒ 02 ⇒ ....

② Finding a bookmark

Each time you press the **REW(◀◀)/FF(▶▶)** button, the bookmark number will increase/decrease and the bookmark details will be displayed.

③ Bookmark Play

- To play back the bookmark found in the step ②, press the **SELECT** button. Then, the bookmark browser will be closed and playback of the bookmark will be started.

◎ When playback of the bookmarked file is completed, the next file will be played back.

- Bookmark Play

If you press the **REW(◀◀)/FF(▶▶)** button during bookmark playback, the next/previous file of the bookmark will be played back, instead of the next/previous bookmark.

④ Deleting a bookmark

- Move to the bookmark to delete and press the **REC/STOP** button to display the Edit popup menu.

- Delete Mark: Deletes the currently selected bookmark.

- Delete All: Deletes all bookmarks.

- Move to the Delete Mark menu using the **+(Up)/-(Down)** button, and press the **SELECT** button and then, the **REW(◀◀)/FF(▶▶)** button to confirm bookmark deletion.

< Playlist Browser>

◎ There are two types of a playlist.

- Playlist that can be added/deleted to/from the player: "Playlist.m3u" – Only 1 playlist is available.

- Read-only playlist: m3u file that was created by Winamp – several playlists can exist.

- Playlist file (.m3u) can be recognized only when it is in the "root/Playlist" directory.

① Adding a playlist.

◎ You can use two methods of adding a playlist.

- Press the **REC** button in the audio stop mode.

- Press the **REC** button in the File Browser and add the playlist in the Edit popup menu.

- You can add or delete up to 99 playlists.

- Saving location will increase sequentially.: 99 ⇒ 01 ⇒ 02 ⇒ ....

② Playlist browser

There are two steps in using the playlist browser.

- When the playlist is opened first: The browser will display the "m3u" file list in the root/Playlist directory.

- Move to the target playlist, using the **+(Up)/-(Down)** button. Then, Press the **SELECT** button or the **FF** button to proceed to the next stage.

- Press the **PLAY** button to exit from the playlist browser.
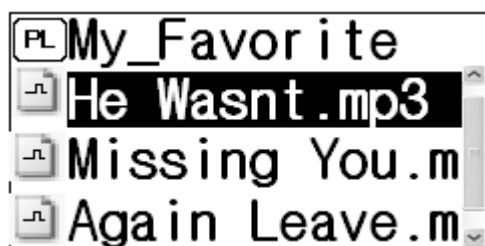
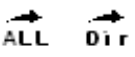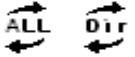- Second stage of using the playlist browser:
Displays the list of files in the playlist that was selected at the first stage.

Move to the target file using the **+(Up)/-(Down)** button or the **FF** button to play back from the selected file.

- Press the **REW** button to move back to the previous stage (playlist selection mode)

- Press the **PLAY** button to close the playlist browser.

◎ File navigation in the audio playback mode during playlist playback will be performed inside the playlist items only.

- Applying the repeat mode and the shuffle mode

Repeat Mode	Description of Operation
→1	Plays back the file selected from the playlist only once.
↻1	Plays back the file selected from the playlist only indefinitely.
→ALL →Dir	Plays back all files in the playlist only once.
↻ALL ↻Dir	Plays back all files in the playlist only indefinitely.

③ Deleting a playlist

- Deleting a playlist (m3u file): When you press the **REC** button at the step 1, the playlist deletion confirmation popup window will appear.

- Select "Yes" to delete the selected playlist file.

- Deleting the playlist link: When you press the **REC** button at the step 2, the playlist link deletion confirmation popup window will appear.

- Select "Yes" to delete the selected playlist link.

(2) Repeat Mode

Repeat Mode	Description
$\overrightarrow{1}$	Plays back the selected one file only and stops playback.
$\overleftrightarrow{1}$	Plays back the selected one file repetitively.
$\overrightarrow{ALL}$	Plays back all files and stops playback.
$\overleftrightarrow{ALL}$	Plays back all files repetitively.
$\overrightarrow{Dir}$	Plays back all files in the current directory and stops playback.
$\overleftrightarrow{Dir}$	Plays back all files in the current directory repetitively.
$\overrightarrow{ALL}$ Shuffle	Plays back all files once randomly and stops playback.
$\overleftrightarrow{ALL}$ Shuffle	Plays back all files repetitively with a random order.
$\overrightarrow{Dir}$ Shuffle	Plays back all files in the current directory randomly and stops playback.
$\overleftrightarrow{Dir}$ Shuffle	Plays back all files in the current directory repetitively with a random order.
Intro	Plays back the file as long as specified in the menu (1 ~ 30 seconds).

FM Radio Mode

1) Switching to the FM Radio Mode

If you're currently in the mode other than the FM radio mode, press the **SELECT** button longer once to change the mode.

Use the **REW(◀◀)/FF(▶▶)** button to select the FM radio mode and press the **SELECT** button to enter into the FM radio mode.
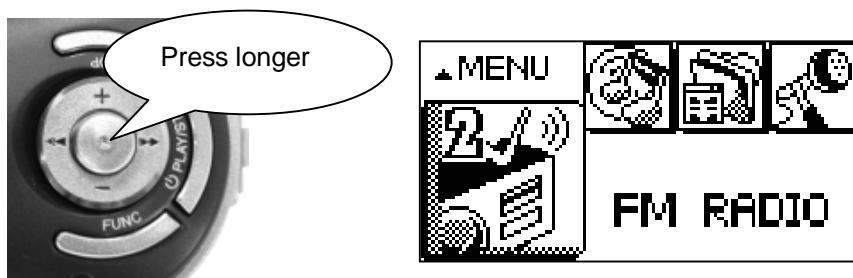
2) Changing the FM Mode

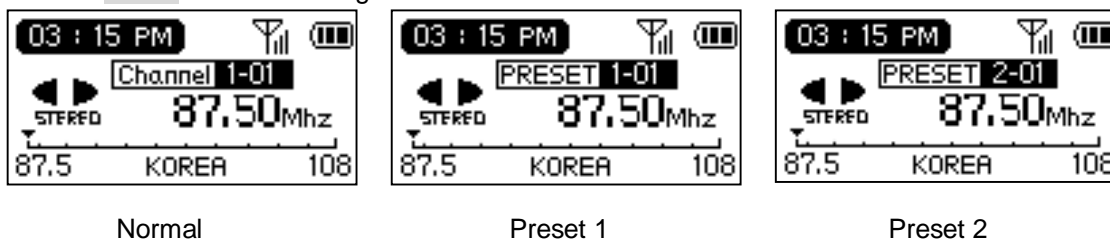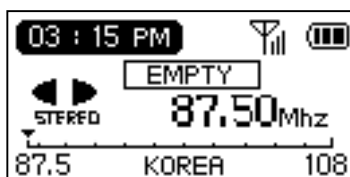The FM radio has three modes (Normal ⇒ Preset1 ⇒ Preset2)

Press the **SELECT** button shortly to switch from the normal mode to the Preset mode 1. Or, press the FUNC button longer to switch from the Preset mode 1 to the Preset mode 2.
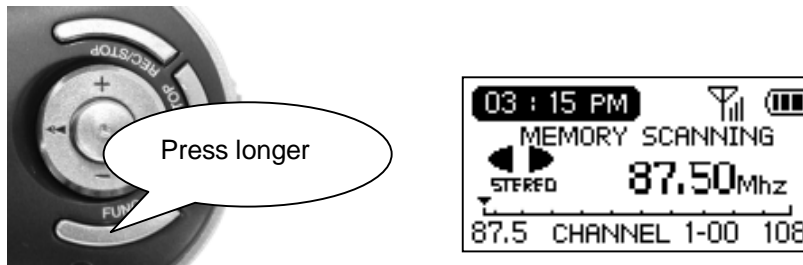
Press the **FUNC** button to change the mode.

| Normal | Preset 1 | Preset 2 |

☞ **Note** ☜

▶ The "EMPTY" icon will appear if no frequency is saved in the reset mode.

3) Auto Memory

If you press the **FUNC** button longer in the normal mode, only frequencies with good sensitivity will be saved in the preset. The automatically saved frequencies will work in the Preset1, Preset2 mode only.

Press longer

```
┌─────────────────────────────┐
│ [03:15 PM]        ▼ᵢₗₗ (▥▥▥) │
│     MEMORY SCANNING         │
│ ◀ ▶                         │
│ STEREO      87.50 Mhz       │
│ ▼                           │
│ 87.5  CHANNEL 1-00  108     │
└─────────────────────────────┘
```

> ☞ **Note** ☜
>
> ▶ You can set the FM sensitivity level using FM Menu ⇒ FM Setting ⇒ FM Sense.
>
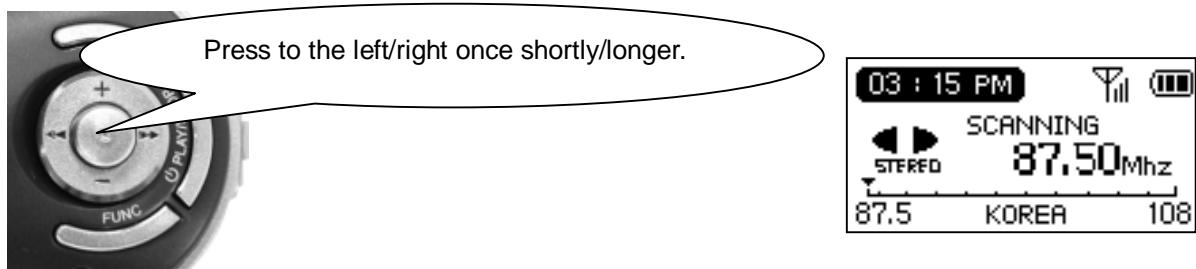> ▶ You may not be able to save the broadcasting channel in the weak sensitivity area.

4) Frequency Search

<Normal Mode>

Search for the frequency using the **REW(◀◀)/FF(▶▶)** button.

Press the **REW(◀◀)/FF(▶▶)** button to increase or decrease the frequency band by one step (100KHz or 50KHz)

Press the **REW(◀◀)/FF(▶▶)** button longer to increase or decrease the frequency band fast and stops at the frequency with good sensitivity.

Press to the left/right once shortly/longer.

```
┌─────────────────────────────┐
│ [03:15 PM]        ▼ᵢₗₗ (▥▥▥) │
│        SCANNING             │
│ ◀ ▶                         │
│ STEREO      87.50 Mhz       │
│ ▼                           │
│ 87.5     KOREA      108     │
└─────────────────────────────┘
```
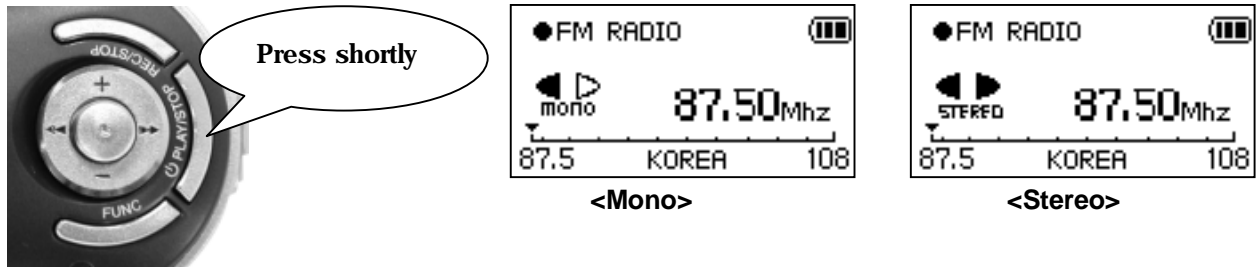
<Preset Mode>

Frequency search in the preset mode is performed within 20 preset frequencies of each Preset1, Preset2.

Press the **REW(◀◀)/FF(▶▶)** button to increase/decrease the saved channel number. (Press and hold the button to increase/decrease fast.)

5) Changing Stereo/Mono Mode

Press the **PLAY/STOP** button to switch between stereo and mono mode.

Press shortly

●FM RADIO   (▥)
◀ ▷
mono   87.50Mhz
87.5   KOREA   108

<Mono>

●FM RADIO   (▥)
◀ ▶
STEREO   87.50Mhz
87.5   KOREA   108

<Stereo>

6) Saving Frequency

In the normal mode you can save the current frequency to the preset.

Search the channel number you want and press the **FUNC** button then the MEMORY 01 icon will appear.

Press the **REW(◀◀)/FF(▶▶)** button to increase/decrease the channel number to use. (Press the button and hold it to increase/decrease fast.)

Select the channel number you want and press the **FUNC** button to save and return to the normal mode.

Or, press the **PLAY/STOP** button to exit without saving.

7) Deleting the Preset

You can delete the channel saved in the preset.

Press the **FUNC** button shortly once to delete the channel.

8) FM Recording

Press shortly

Recording: To record the frequency that you're listening, press the **REC/STOP** button longer in the FM radio mode. Or, set the recording source to "FM Radio" in the Record menu and pres the **REC/STOP** button in the recording mode to record the FM Radio broadcasting.

Stop: Press the **REC/STOP** button again to stop recording and return to the previous mode before recording.
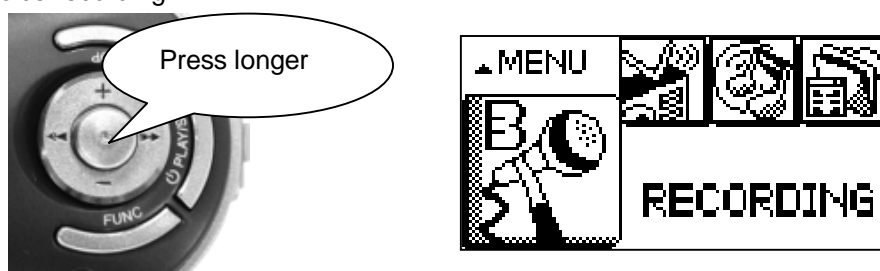
●RECORDING...   (▥)
FMRC001
00:01:58
01:43:53

Recording

03:15 PM   🎝ıl (▥)
◀ ▶
STEREO   87.50Mhz
87.5   KOREA   108

Stop
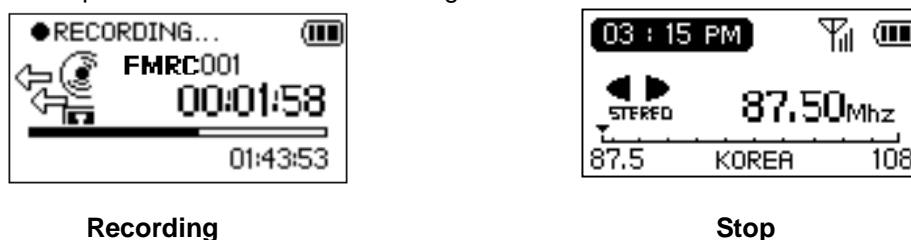
Recording

## 1) Switching to the Recording Mode

Press the **SELECT** button longer to change the mode if the mode is other than the recording mode. Use the **REW(◀◀)/FF(▶▶)** button to select the recording mode and press the **SELECT** button to enter into the Recording mode.

If the current mode is audio play mode or FM radio mode, press the **REC/STOP** button to start voice recording.
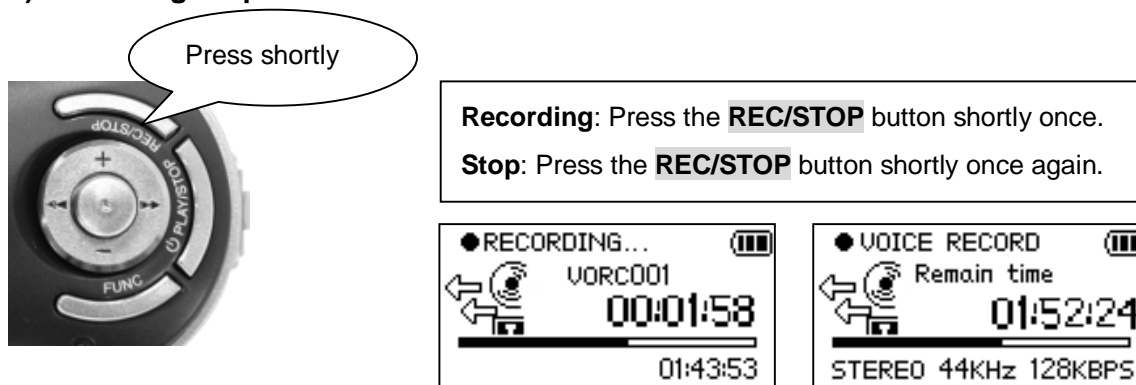
Press longer

2) Selecting Recording Source

Select the recording source by selecting Record menu ⇒ Recording Source ⇒ Voice/Line In/FM Radio.

3) Recording/Stop

Press shortly

Recording: Press the **REC/STOP** button shortly once.

Stop: Press the **REC/STOP** button shortly once again.
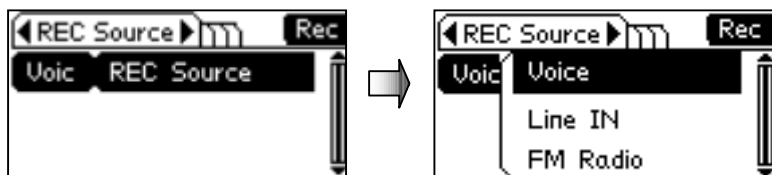
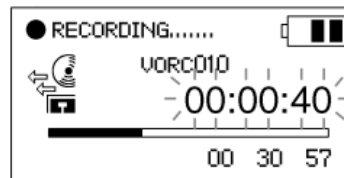**Recording**   **Stop**

☞ **Notes** ☜

▶ Date and time of the file name in the recording waiting state shows the current date and time.

◎ **File name by the recording source.**

① **Voice Record : Voice_40630_2126.wma**

② **Line In Record : Line_40630_2130.wma**

③ **FM Record : FM 40630 2135.wma**

4) Voice Pause / Cancel pausing

Press shortly

● RECORDING.......
VORC010
-00:00:40-
00 30 57

Pause: Press the **REC/STOP** button while recording shortly once.
Cancel pausing: Press the **REC/STOP** button shortly once again.

5) Voice Playback / Stop

Press shortly

Playback: Press the **PLAY/STOP** button shortly once when the player is stopped.
Stop: Press the **PLAY/STOP** button shortly once

018 03:29
VOICE
VORC006.MP3
MP3 192KBPS 44.1KHZ VOL18

018 03:29
VOICE
VORC006.MP3
MP3 192KBPS 44.1KHZ VOL18

Playback   **Stop**

① Press the **PLAY/STOP** button in the recording standby state to play back the latest recording file. However, you can play back the recorded FM file in the File Browser mode only.

② Press the **SELECT** button to enter into the file browser mode.

Select the target file in the file browser and press the **PLAY/STOP** button or the **SELECT** button shortly to play back the selected file.
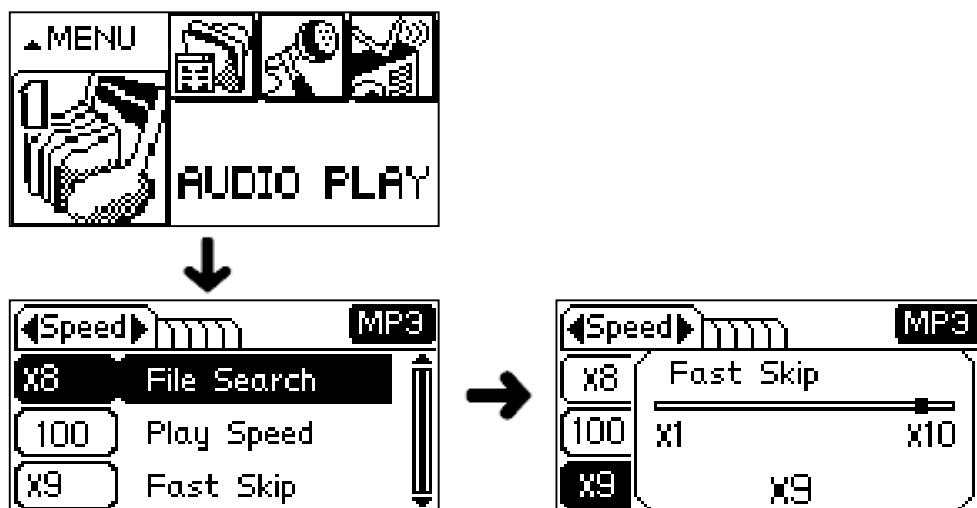
MENU

1) Entering into the Menu Mode

Press the **SELECT** button longer in the audio playback mode, FM radio or recording mode to enter into the menu mode.

Press the **REW(◀◀)/FF(▶▶)** button to select the target main menu and then, press the **+(Up)**button to enter into the sub-menu of the selected main menu.

Select the target sub-menu and end menu using the **REW(◀◀)/FF(▶▶)** button.

Press the **SELECT** button to display the popup window for details setting.

2) Moving back to the main menu from the sub-menu

Press the **FUNC** button in the sub-menu to return to the main menu.

3) Moving back to the sub-menu from the end menu

Press the **SELECT** button in the end menu to save the modified setting values and return to the sub-menu. Or, press the **FUNC** button to return to the sub-menu without saving the modified setting value.
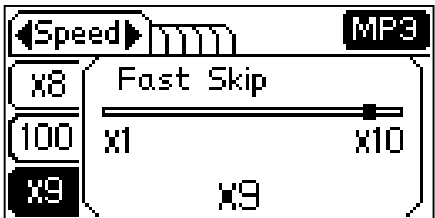
4) Exit from the menu mode

Press the **PLAY/STOP** button in any mode to exit from the menu mode.

5) Types of the end menu

- There are three end menus. End menu can be classified by the button types used for setting.
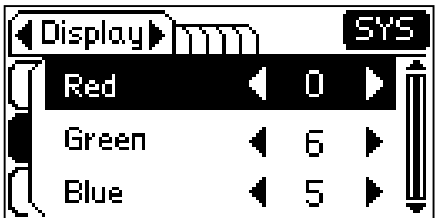
① Left/Right Scroll End Menu

The end menu shown left enables you to change the setting value using the **REW(◀◀)/FF(▶▶)** button.
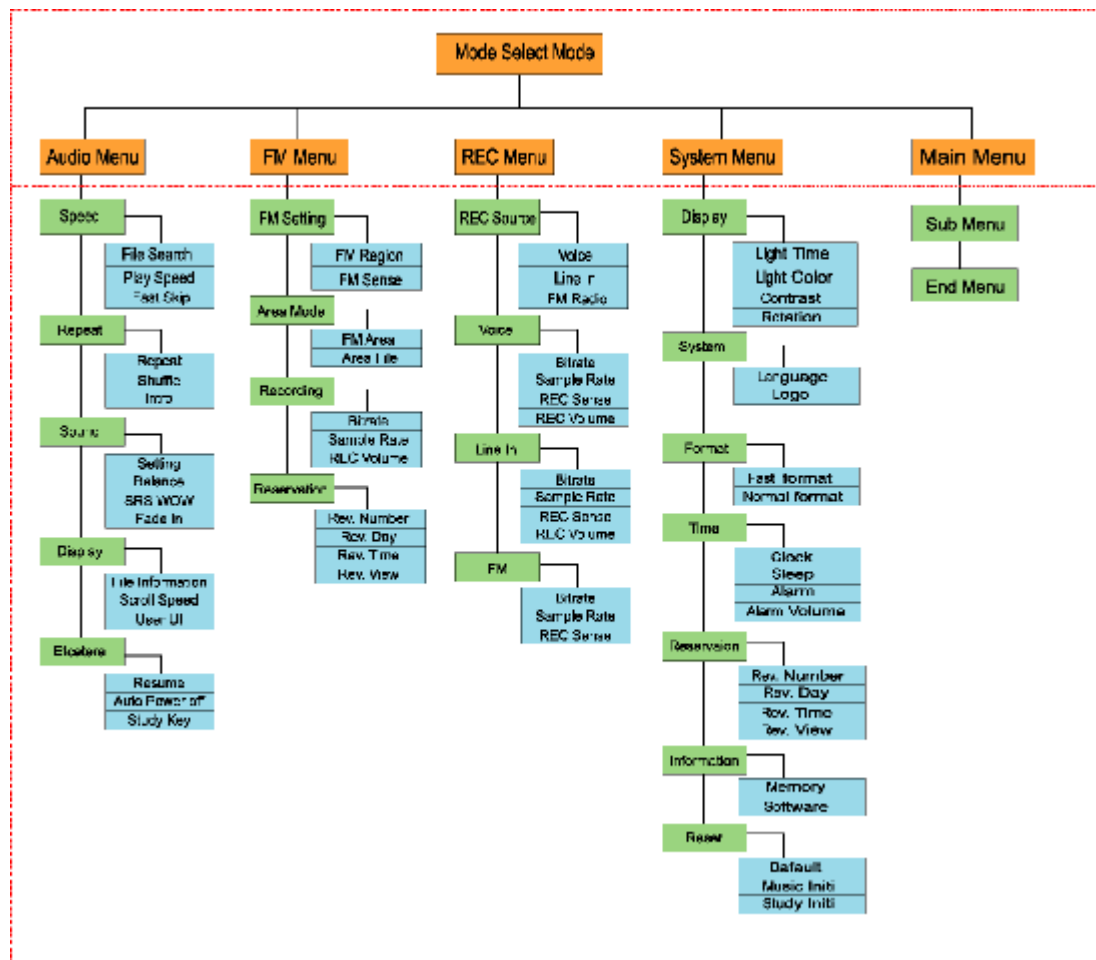
② Up/Down Scroll End Menu

The end menu shown left enables you to change the setting value using the **+(Up)/-(Down)** button.
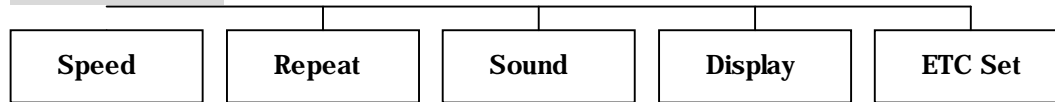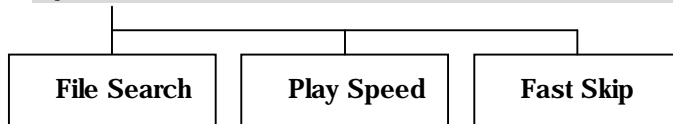
③ Multi Scroll End Menu

All end menus excluding ① and ②.
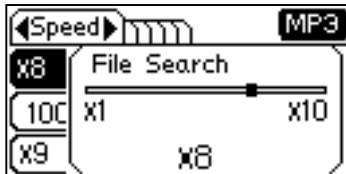The end menu that uses both ① and ② as shown left.

Mode Select Mode

Audio Menu | FM Menu | REC Menu | System Menu | Main Menu

Audio Menu
- Speed
  - File Search
  - Play Speed
  - Fast Skip
- Repeat
  - Repeat
  - Shuffle
  - Intro
- Sound
  - Setting
  - Balance
  - SRS WOW
  - Fade In
- Display
  - Title Information
  - Scroll Speed
  - User UI
- Etcetera
  - Resume
  - Auto Power off
  - Study Key

FM Menu
- FM Setting
  - FM Region
  - FM Sense
- Area Mode
  - FM Area
  - Area Title
- Recording
  - Bitrate
  - Sample Rate
  - RLC Volume
- Reservation
  - Rev. Number
  - Rev. Day
  - Rev. Time
  - Rev. View

REC Menu
- REC Source
  - Voice
  - Line In
  - FM Radio
- Voice
  - Bitrate
  - Sample Rate
  - REC Sense
  - REC Volume
- Line In
  - Bitrate
  - Sample Rate
  - REC Sense
  - RLC Volume
- FM
  - Bitrate
  - Sample Rate
  - REC Sense

System Menu
- Display
  - Light Time
  - Light Color
  - Contrast
  - Rotation
- System
  - Language
  - Logo
- Format
  - Fast format
  - Normal format
- Time
  - Clock
  - Sleep
  - Alarm
  - Alarm Volume
- Reservation
  - Rev. Number
  - Rev. Day
  - Rev. Time
  - Rev. View
- Information
  - Memory
  - Software
- Reset
  - Default
  - Music Init
  - Study Init

Main Menu
- Sub Menu
- End Menu

Audio Menu

Speed	Repeat	Sound	Display	ETC Set

Speed Control

File Search	Play Speed	Fast Skip

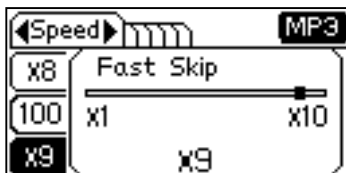Select the menu you want using the **+(Up)/-(Down)** button.

■ **File Search**

You can set file movement speed between 1 and 10 seconds, using the **REW(◀◀)/FF(▶▶)** button.
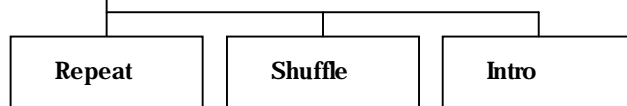
■ **Play Speed**

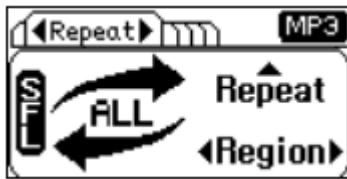You can set file playback speed between 50% and 150% using the **REW(◀◀)/FF(▶▶)** button.

■ **Fast Skip**

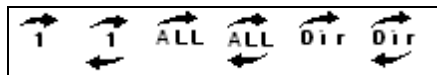You can speed up file playback by 1 times to 10 times using the **REW(◀◀)/FF(▶▶)** button.

Repeat

Repeat	Shuffle	Intro

```
┌─────────────────────┐
│ ◄Repeat►      MP3    │
│ 1    Repeat          │
│ Shu  Shuffle         │
│ OFF  Intro           │
└─────────────────────┘
```

Select the menu you want using the **+(Up)/-(Down)** button.

```
┌─────────────────────┐
│ ◄Repeat►      MP3    │
│ S           Repeat   │
│ F  ALL   ◄Region►    │
└─────────────────────┘
```
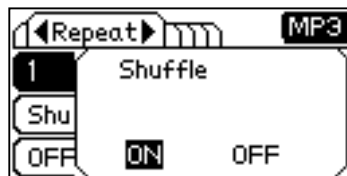
■ **Repetition**

Press the **+(Up)/-(Down)** button to change the repetition mode, or press the **REW (◄◄)/FF(►►)** button to change the repetition region.
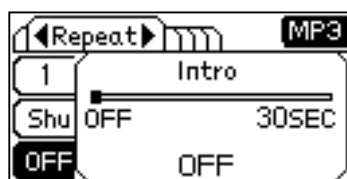
```
 ↱    ↱   ↱ALL  ↱ALL  ↱Dir  ↱Dir
 1    1    ←     ←     ←     ←
```

Press the **REC/STOP** button to set the shuffle mode.

```
┌─────────────────────┐
│ ◄Repeat►      MP3    │
│ 1      Shuffle       │
│ Shu                  │
│ OFF   ON     OFF     │
└─────────────────────┘
```

■ **Shuffle**

You can set whether playback will be performed sequentially or randomly, using the **REW(◄◄)/FF(►►)** button.**.**

```
┌─────────────────────┐
│ ◄Repeat►      MP3    │
│ 1       Intro        │
│ Shu OFF       30SEC  │
│ OFF    OFF           │
└─────────────────────┘
```

■ **Intro**

You can set time duration for Intro (0 ~ 30 seconds), using the **REW(◄◄)/FF(►►)** button.

Sound

EQ Setting	Balance	SRS WOW	Fade In

```
┌─────────────────────┐
│ ◄ Sound ►     MP3    │
│ Roc  EQ Setting      │
│ 0%   Balance         │
│ 3    SRS WOW         │
└─────────────────────┘
```
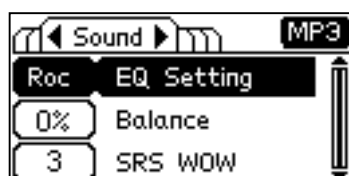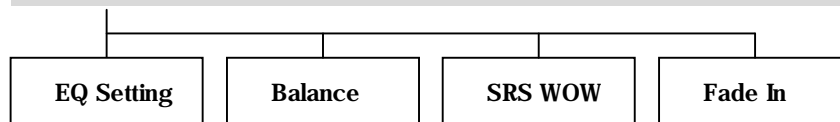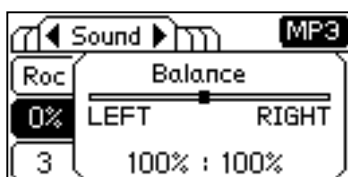
Select the menu you want using the **+(Up)/-(Down)** button.
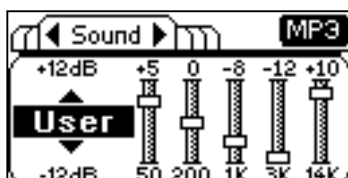
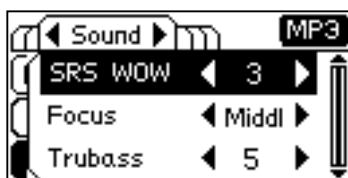■ **EQ** (Normal ⇒ Rock ⇒ Jazz ⇒ Classic ⇒ Pops ⇒ User ⇒ SRS)

Select the equalizer you want using the **+(Up)/-(Down)** button or the **+(Up)/-(Down)** button that fits to your bass and treble preferences.

Use the **REW(◀◀)/FF(▶▶)** button to adjust each level of 5 bands. (Except the normal and SRS mode)
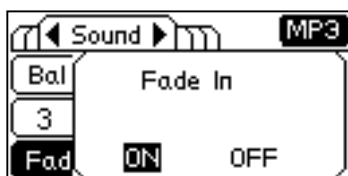

■ **Balance**

Select the left/right balance using the **REW(◀◀)/FF(▶▶)** button by 20 steps (Left 0%/Right 100% ~ Left 100%/Right 0%).

■ **SRS WOW (SRS WOW, Focus, Trubass, Boost, Speaker)(Virtual 3D sound effect)**
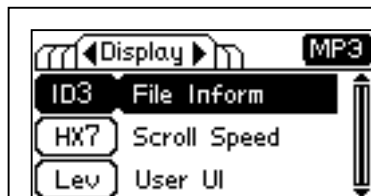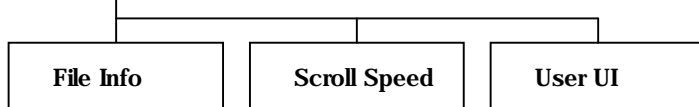
Set the 3D sound effect as you prefer using the **REW(◀◀)/FF(▶▶)** button or **+(Up)/-(Down)**.

■ **Fade In**

Select whether you will use the fade in effect (Once selected, you can prevent abrupt volume up or down when stopping or playing back since it increases/decrease steadily at the beginning for end.), using the **REW(◀◀)/FF(▶▶)** button.

Display

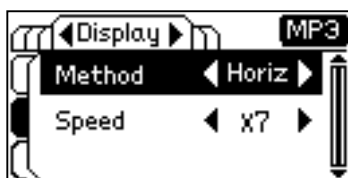| File Info	Scroll Speed	User UI

Select the menu you want using the **+(Up)/-(Down)** button.

■ **File info (File Info-ID3 Tag, Lyrics, Media Sync)**

Set the file name display method using the **+/-** button.
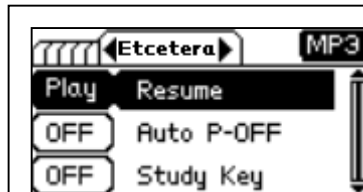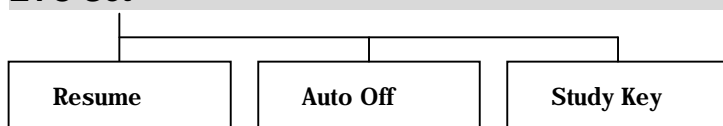
■ Scroll (Method, Speed)

Set the scrolling method and speed using the **+(Up)/-(Down)** button and **REW(◀◀)/FF(▶▶)** button (Vertical, Horizontal, Scroll/ 1~10 seconds).

■ User UI

Set the UI that will be displayed at the bottom right side of the LCD (Clock, level meter, progress bar or volume), using the **+(Up)/-(Down)** button.

ETC Set

Resume	Auto Off	Study Key

Select the menu you want using the **+(Up)/-(Down)** button.
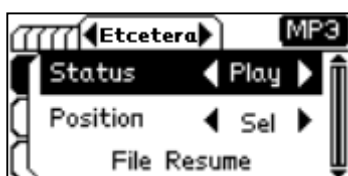
■ Resume

Use the **REW(◀◀)/FF(▶▶)** button and **+(Up)/-(Down)** button to set the operation mode and location when the power is turned on.
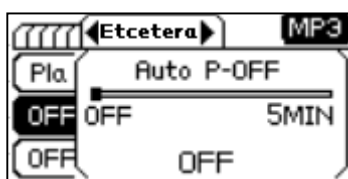
■ Auto Power Off

Set the automatic power off time duration (off – 5 minutes) in the idle mode, using the **REW(◀◀)/FF(▶▶)** button.

■ Study Key

Press the **REW(◀◀)/FF(▶▶)** key during playback to move the playback position by the designated period of time. (Off ~ 60 seconds)

FM Menu

FM Set	Area Set	FM Rec	Reservation

FM Set

FM Region	FM Sense
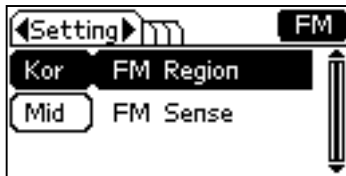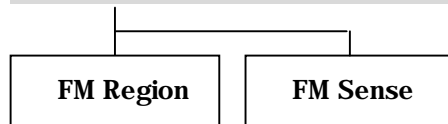
Select the menu you want using the **+(Up)/-(Down)** button.

■ **FM usage area (FM Band- Korea, USA, Europe, China, Japan)**

Set the FM frequency area and size of 1 step (50KHz or 100KHz), using the **+/-** button.
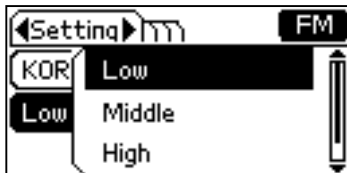
■ **FM scanning sensitivity (FM Sense-Low, Middle, High, Auto)**

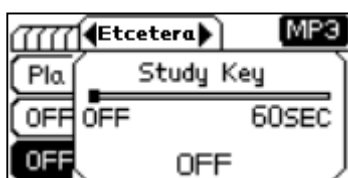Set scanning sensitivity for auto scan and frequency search, using the **+/-** button.

- Low: Low sensitivity - Inside the building or the area with the weak signal receiving ratio.
- Mid: Medium sensitivity - Normal setting.
- High: High sensitivity - Area with the strong signal receiving ratio.
- Auto: Used for automatic scanning. If selected, the frequency having better sensitivity than Low throughout the frequency range is scanned. Then, the best 20 frequencies are saved in the preset memory.

Area Set
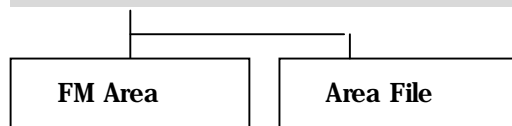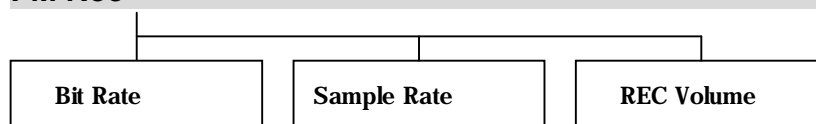
FM Area	Area File

```
┌─────────────────────────┐
│ ◄ Record ►      FM       │
│ ┌────┐                   │
│ │OFF │  FM Area          │
│ └────┘                   │
│ ┌────┐                   │
│ │    │  Area File        │
│ └────┘                   │
└─────────────────────────┘
```

Select the menu you want using the **+(Up)/-(Down)** button.

```
┌─────────────────────────┐
│ ◄ Record ►      FM       │
│ ┌────┐                   │
│ │ON  │    FM Area        │
│ └────┘                   │
│ ┌────┐                   │
│ │    │   ON      OFF     │
│ └────┘                   │
└─────────────────────────┘
```

■

■

FM Rec

Bit Rate	Sample Rate	REC Volume

```
┌─────────────────────────┐
│ ◄ Recording ►    FM      │
│ ┌────┐                   │
│ │128 │  Bit Rate         │
│ └────┘                   │
│ ┌────┐                   │
│ │44.1│  Sample Rate      │
│ └────┘                   │
│ ┌────┐                   │
│ │ 21 │  REC Volume       │
│ └────┘                   │
└─────────────────────────┘
```
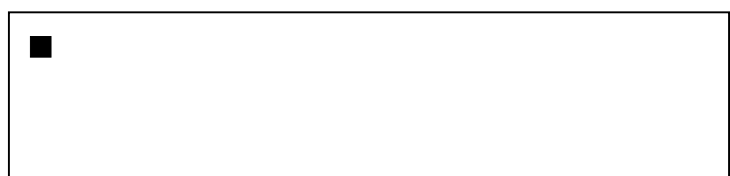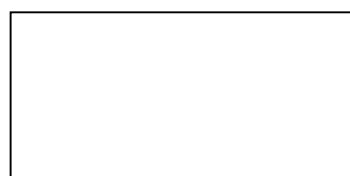
Select the menu you want using the **+(Up)/-(Down)** button.

```
┌─────────────────────────┐
│ ◄ Recording ►    FM      │
│ ┌────┐                   │
│ │128 │    Bit Rate       │
│ └────┤ ●────────────────■│
│ │44.1│ 32           128  │
│ └────┤                   │
│ │ 21 │    128kbps        │
│ └────┘                   │
└─────────────────────────┘
```

■ **Bit Rate (32, 48, 64, 80, 96, 128 Kbps)**
Set the recording Bit Rate, using the REW(◄◄)/FF(►►) button.

```
┌─────────────────────────┐
│ ◄ Recording ►    FM      │
│ ┌────┐                   │
│ │128 │   Sample Rate     │
│ └────┤ ●────────────────■│
│ │44.1│ 32k         44.1k │
│ └────┤                   │
│ │ 21 │    44,1KHz        │
│ └────┘                   │
└─────────────────────────┘
```

■ **Sample Rate (32, 44.1 KHz)**
Set the recording Sample Rate, using the REW(◄◄)/FF(►►) button.

`[Recording ▶]` **FM**
`128`
`44.1` REC Volume
`21` `1` —————◆————— `40`
`21`
	■ **REC Volume**
	Set the recording Volume(0~40), using the
	REW(◀◀)/FF(▶▶) button.

Reservation

Rev. Number	Rev. Day	Rev. Time	Rev. View

`◀ Reseration ▶` **FM** `1` Rev.Number `3Da` Rev.Day `Time` Rev. Time	Select the menu you want using the **+(Up)/-(Down)** button.
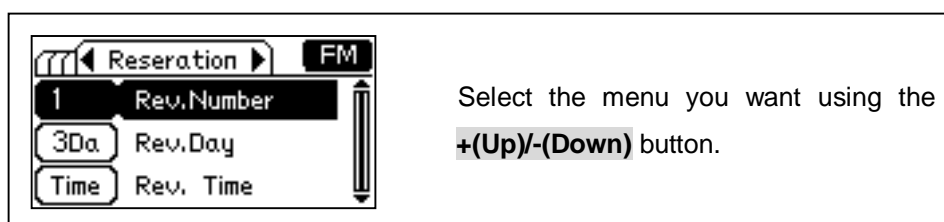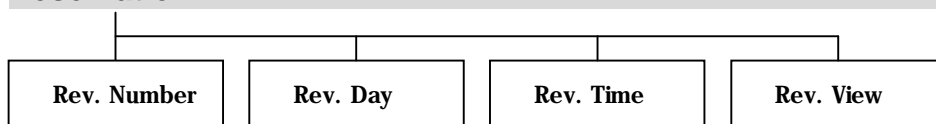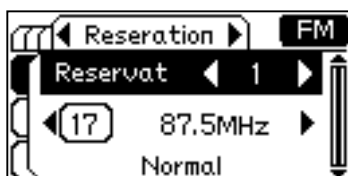
`◀ Reseration ▶` **FM** Reservat `◀ 1 ▶` `◀(17)` 87.5MHz `▶` Normal	■ **Rev. Number** Set the reservation number (reservation number 1 ~ 10, 0 means "off") and the FM frequency using the **REW(◀◀)/FF(▶ ▶)** button and **+(Up)/-(Down)**. You can switch between normal/preset mode using the **REC/STOP** button.

`◀ Reseration ▶` **FM** Su Mo Tu We Th Fr Sat ☑ ☐ ☐ ☐ ☐ ☐ ☐	■ **Rev. Day** Set the reservation weekday (Sunday ~ Saturday) using the **REW(◀◀)/FF(▶▶)** button and **+(Up)/-(Down)**.

`◀ Reseration ▶` **FM** `1` 3Day `3Da` `(Star)` `5⇕`: 10 `Tim` `(End)` 6 : 10	■ **Rev. Time** Set the reservation starting and ending time using the **REW(◀◀)/FF(▶▶)** button and **+(Up)/-(Down)**.
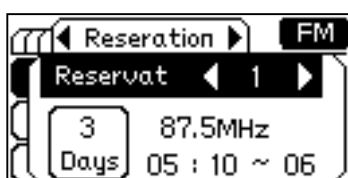
`◀ Reseration ▶` **FM** Reservat `◀ 1 ▶` `3` 87.5MHz `Days` 05 : 10 ~ 06	■ **Rev. View** Press the **REW(◀◀)/FF(▶▶)** button to check the reservation details.

REC Menu

Source	Voice	Line - In	FM
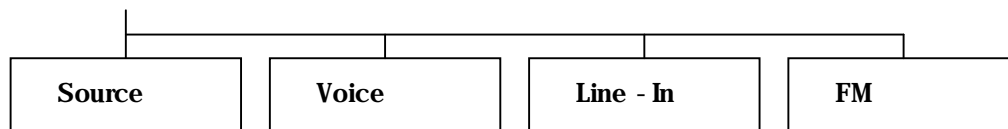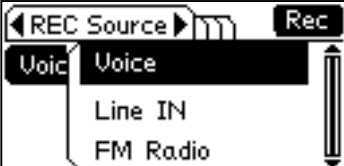
Source
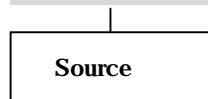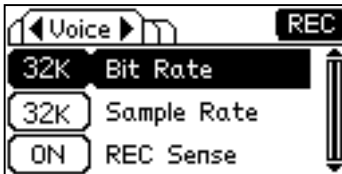
Source

REC Source	Select the REC Source menu using the **SELECT** button.
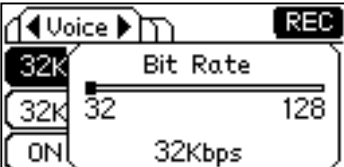
REC Source ► Voic REC Source	■ **Source (Voice, Line in, FM Radio)** Set the recording source, using the **+(Up)/-(Down)** button.

| REC Source ► Voic Voice / Line IN / FM Radio | |

Voice

Bitrate	Sample Rate	REC Sense	REC Volume

Voice ► 32K Bit Rate / 32K Sample Rate / ON REC Sense	Select the menu you want using the **+(Up)/-(Down)** button.

Voice ► 32K Bit Rate / 32K 32 128 / ON 32Kbps	■ **Bit Rate (32, 48, 64, 80, 96, 128 Kbps)** Set the recording Bit Rate, using the **REW(◄ ◄)/FF(►►)** button.

Voice ► 32K Sample Rate / 32K 32k 44.1k / ON 44.1KHz	■ **Sample Rate (32, 44.1 KHz)** Set the recording Sample Rate, using the **REW(◄ ◄)/FF(►►)** button.

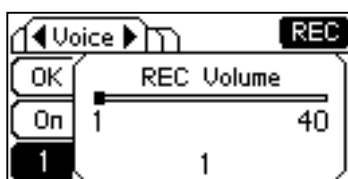|	

`◀Voice▶   REC`
`Sense Ti  ◀ 6Se ▶`
`Sense Le  ◀ 21 ▶`
	■ **REC Sense**
	Set the voice recording detection time and level using the **REW(◀◀)/FF(▶▶)** button and **+(Up)/-(Down)**.
	
	Sense Time: Recording stops if the signal is received under the sense level for the specified period of time.
	Sense Level: Recording starts when the signal is over the specified level.

`◀Voice▶   REC`
`OK    REC Volume`
`On   1        40`
`1          1`
	■ **REC Volume**
	Set the recording volume(0~40), using the **REW(◀◀)/FF(▶▶)** button.

Line-In

Bitrate	Sample Rate	REC Volume	REC Sense
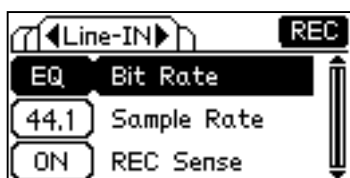
`◀Line-IN▶   REC`
`EQ    Bit Rate`
`44.1  Sample Rate`
`ON    REC Sense`
	Set the recording type (Bitrate, Sample Rate, REC Volume, REC Sense) using **+(Up)/-(Down)** the button. Take the same setting method with voice recording.

FM

Bitrate	Sample Rate	REC Volume	REC Sense
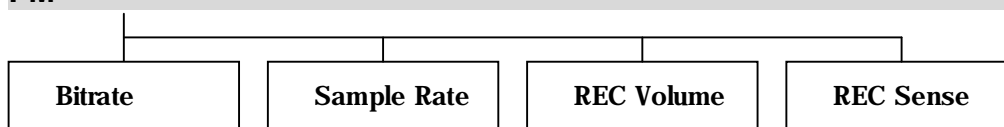
`◀FM Radio▶   REC`
`32K   Bit Rate`
`32K   Sample Rate`
`ON    REC Sense`
	Set the recording type (Bitrate, Sample Rate, REC Sense) using **+(Up)/-(Down)** the button. Take the same setting method with voice recording.

System Menu

Display	System	Format	Time	Reservation	Information	Reset

Display

Light Time	Light Color	Contrast	Rotation

◀Display▶ 〚SYS〛
OFF Light Time
RGB Light Color
15   Contrast

Select the menu you want using the **+(Up)/-(Down)** button.
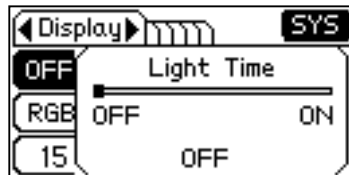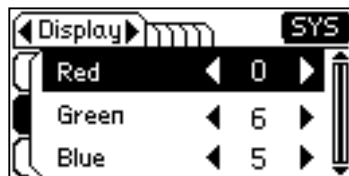
◀Display▶ 〚SYS〛
OFF Light Time
RGB OFF   ON
15   OFF

■ **Light Time**

Set the backlight time, using the REW(◀◀)/FF(▶▶) button.

◀Display▶ 〚SYS〛
Red   ◀ 0 ▶
Green   ◀ 6 ▶
Blue   ◀ 5 ▶

■ **Light Color**

Set the backlight color by adjusting RGB color using the **REW(◀◀)/FF(▶▶)** button and **+(Up)/-(Down)**.

◀Display▶ 〚SYS〛
OFF Contrast
RGB 1   30
15   15
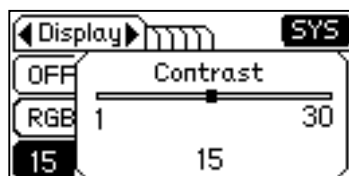
■ **Contrast**

Adjust brightness of the letters displayed on the LCD, using the **REW(◀◀)/FF(▶▶)** button.

◀Display▶ 〚SYS〛
RGB Left Hand
15   Right Hand
Righ

■ **Rotation**

The screen can be rotated so that left-handed or right-handed person. Use the **+(Up)/-(Down)** button to rotate the screen.

System

```
┌──────────────┬──────────────┐
│   Language   │     LOGO     │
└──────────────┴──────────────┘
```

```
┌─[◀System▶]▭▭▭▭──[SYS]─┐
│ [Engl] Language         ║│
│ [Log ] LOGO             ║│
│                         ║│
└─────────────────────────┘
```
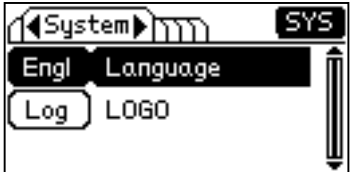Select the menu you want using the **+(Up)/-(Down)** button.
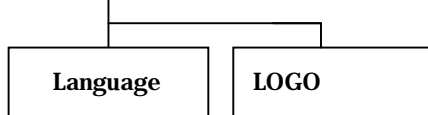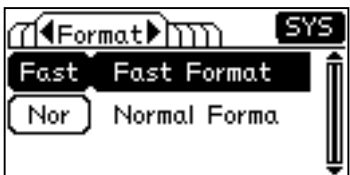
```
┌─[◀System▶]▭▭▭▭──[SYS]─┐
│ Engl  English           ║│
│ Log   Korean            ║│
└─────────────────────────┘
```
■ **Language**
Select the language you want using the **+(Up)/-(Down)** button.
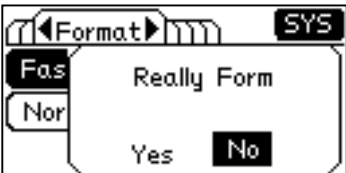
```
┌─[◀System▶]▭▭▭▭──[SYS]─┐
│ User Log   ◀ ON  ▶      ║│
│ Logo Fil   ◀ Sel ▶      ║│
└─────────────────────────┘
```
■ **Logo Setting**
Set the user logo (usage status, logo file) using the **REW(◀◀)/FF(▶▶)** button and **+(Up)/-(Down)**.

Format

```
┌──────────────┬──────────────┐
│  Fast Format │ Normal Format │
└──────────────┴──────────────┘
```

```
┌─[◀Format▶]▭▭▭▭──[SYS]─┐
│ Fast  Fast Format       ║│
│ Nor   Normal Forma      ║│
│                         ║│
└─────────────────────────┘
```
Select the menu you want using the **+(Up)/-(Down)** button.

```
┌─[◀Format▶]▭▭▭▭──[SYS]─┐
│ Fas   Really Form       │
│ Nor                     │
│       Yes  [No]         │
└─────────────────────────┘
```
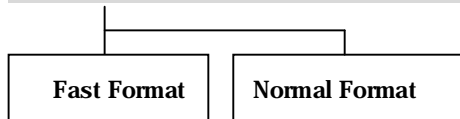
```
┌─[◀Format▶]▭▭▭▭──[SYS]─┐
│ Fas   Really Form       │
│ Nor                     │
│       Yes  [No]         │
└─────────────────────────┘
```
You can decide the formatting status using the **REW(◀◀)/FF(▶▶)** button.
① **Fast Format**: Formatting is completed quickly but only the file system is reconfigured..
② **Normal Format**: Formatting takes time since the memory is initialized but the back block is checked during formatting.

Time

Clock	Sleep	Alarm	Alarm Volume

```
┌──────────────────────┐
│ ⊞⊞⊞◀ Time ▶⊞⊞    SYS │
│ Time  Clock          │
│ (OFF) Sleep          │
│ (OFF) Alarm          │
└──────────────────────┘
```
Select the menu you want using the **+(Up)/-(Down)** button.

```
┌──────────────────────┐
│ ⊞⊞⊞◀ Time ▶⊞⊞    SYS │
│ T    Clock    Mon    │
│ (  2004 ⇕ / 07 /05   │
│ (    04 : 57  PM     │
└──────────────────────┘
```
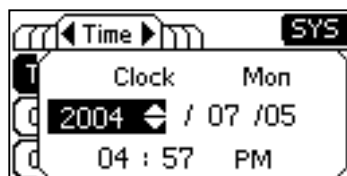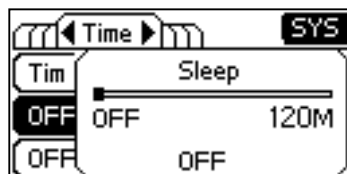■ **Time Setting**

Set the current time using the **REW(◀◀)/FF(▶▶)** button and **+(Up)/-(Down)**.

```
┌──────────────────────┐
│ ⊞⊞⊞◀ Time ▶⊞⊞    SYS │
│ (Tim    Sleep        │
│ OFF ├──────────────┤ │
│ OFF  OFF      120M   │
│          OFF         │
└──────────────────────┘
```
■ **Sleep**

Set the automatic time off during, using the **REW(◀◀)/FF(▶▶)** button.
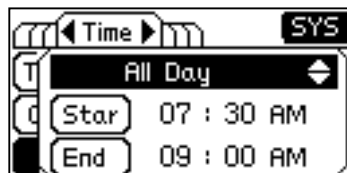
```
┌──────────────────────┐
│ ⊞⊞⊞◀ Time ▶⊞⊞    SYS │
│ T     All Day     ⇕  │
│ ( (Star) 07 : 30 AM  │
│ ( (End)  09 : 00 AM  │
└──────────────────────┘
```
■**Alarm**

Set the alarm starting and ending time using the **REW(◀◀)/FF(▶▶)** button and **+(Up)/-(Down)**.
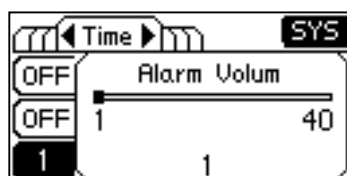
```
┌──────────────────────┐
│ ⊞⊞⊞◀ Time ▶⊞⊞    SYS │
│ OFF   Alarm Volum    │
│ OFF ├──────────────┤ │
│  1   1          40   │
│         1            │
└──────────────────────┘
```
■ **Alarm Volume**

Set the alarm sound volume (1 ~ 40) using the **REW(◀◀)/FF(▶▶)** button.

Reservation

Rev. Number	Rev. Day	Rev. Time	Rev. view
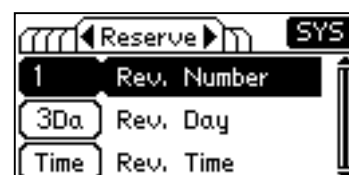
```
┌──────────────────────┐
│ ⊞⊞⊞◀ Reserve ▶⊞    SYS │
│ 1     Rev. Number    │
│ (3Da) Rev. Day       │
│ (Time) Rev. Time     │
└──────────────────────┘
```
Set and display the reservation number, date and time using the **+(Up)/-(Down)** button. Same with the FM reservation setting.

Information

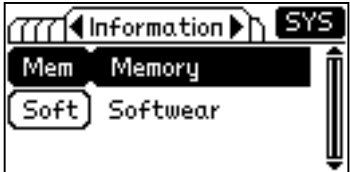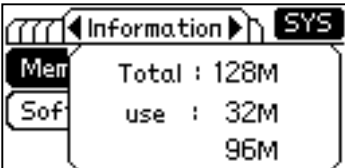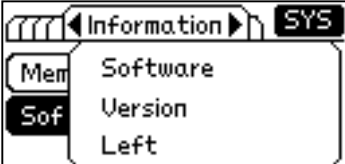| Memory	Software

```
┌─────────────────────────┐
│ (◀ Information ▶) [SYS]  │
│ [Mem] Memory            │
│ [Soft] Softwear         │
└─────────────────────────┘
```

Select the menu you want using the **+(Up)/-(Down)** button.

```
┌─────────────────────────┐
│ (◀ Information ▶) [SYS]  │
│ [Mem]  Total : 128M     │
│ [Sof]  use  : 32M       │
│              96M        │
└─────────────────────────┘
```
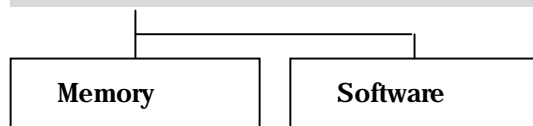
■ **Memory**
Size of the total, used and remained memory will be displayed.

```
┌─────────────────────────┐
│ (◀ Information ▶) [SYS]  │
│ [Mem]  Software         │
│ [Sof]  Version          │
│        Left             │
└─────────────────────────┘
```
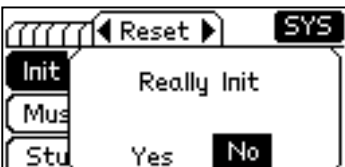
■ **Software**
Firmware version and data will be displayed

Reset

Default	Music Reset	Study Reset

```
┌─────────────────────────┐
│ (◀ Reset ▶) [SYS]       │
│ [Init] Default          │
│ [Mus] Music Initi       │
│ [Stu] Study Initi       │
└─────────────────────────┘
```

Select the menu you want using the **+(Up)/-(Down)** button.

```
┌─────────────────────────┐
│ (◀ Reset ▶) [SYS]       │
│ [Init]  Really Init     │
│ [Mus]                   │
│ [Stu]   Yes   [No]      │
└─────────────────────────┘
```
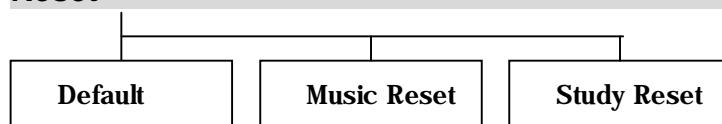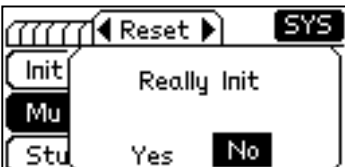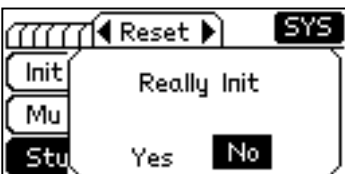
■ **Default**
You can re-configure the player using the factory default values.

```
┌─────────────────────────┐
│ (◀ Reset ▶) [SYS]       │
│ [Init]  Really Init     │
│ [Mu]                    │
│ [Stu]   Yes   [No]      │
└─────────────────────────┘
```

■ **Music Reset**
You can decide whether you will initialize the music playback settings or not, using the **REW(◀◀)/FF(▶▶)**

```
┌─────────────────────────┐
│ (◀ Reset ▶) [SYS]       │
│ [Init]  Really Init     │
│ [Mu]                    │
│ [Stu]   Yes   [No]      │
└─────────────────────────┘
```

■ **Study Reset**
You can decide whether you will initialize the study function settings or not, using the **REW(◀◀)/FF(▶▶)** button.

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