Panasonic®

Operating Instructions
Digital Audio Player

Model No. SV-MP500V
SV-MP510V

> This Manual is an overseas version and some details may differ from Instructions enclosed with products sold in Australia

Dear Customer

Thank you for purchasing this product.
Before connecting, operating or adjusting this product, please read these instructions completely. Please keep this manual for future reference.

Caution
This unit is not waterproof and should not be exposed to excessive moisture.

GC GK (En)

Matsushita Electric Industrial Co., Ltd.
Web site: *http://www.panasonic.co.jp/global/*

RQTT0658-G
M0904SF0

■ Supplied accessories
1 AC adaptor
1 Rechargeable battery with case
1 Pair of stereo earphones
1 USB cable
1 CD-ROM (USB Driver)
1 Neck lanyard
Caution: Take care when using the neck lanyard. If used improperly, it can be a choking hazard.
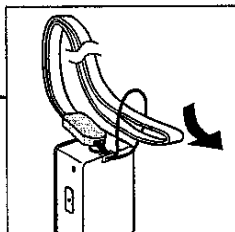
- **Windows Media Player (Version 9.0 or later recommended) Free download from**
  http://www.microsoft.com/downloads/
- **Supports playback of MP3 and WMA music files**
- **Built-in microphone for voice recording**
- **Built-in FM tuner with recording function**
- **Portable data storage device (Plugs in directly to your PC)**
- **Language learning with repeat, follow and comparison.**
- **Total play list (MUSIC, FM RADIO, IC RECORDER) can contain up to 384 tracks.**

These tables show the mode menu items available in the MUSIC, LEARN, FM RADIO, IC RECORDER and SYSTEM modes.

■ MUSIC

| Mode	Options
SOUND	NORMAL/ ROCK/ JAZZ/ CLASSIC/ POP/ USER
PLAY	NORMAL/ ONE REPEAT/ ALL REPEAT/ RANDOM
INFO.	Information (TITLE/ ARTIST/ BIT RATE)
ERASE	SINGLE TRACK/ PLAYLIST/ ALL

■ LEARN

Mode	Options
PLAY	NORMAL/ ONE REPEAT/ ALL REPEAT/ RANDOM
REPEAT MODE	AUTO (TIME/ LEVEL/ BLANK)/ MANUAL (TIME/ TRACE/ T.TIME)
SPEED	LOW-NORMAL-HIGH
ERASE	SINGLE TRACK/ PLAYLIST/ ALL

■ IC RECORDER

Mode	Options
RECORD	LP/ SP/ HQ
VAS	ON/ OFF
SPEED	LOW-NORMAL-HIGH
ERASE	SINGLE TRACK/ ALL

■ FM RADIO

Mode	Options
MEMORY	FREQ. SET/ CHANNEL SET/ AUTO PRESET
BAND STEP	50 kHz/ 100 kHz/ 200 kHz

■ SYSTEM

| MODE |
|---|
| LANGUAGE/ POWER OFF/ BACKLIGHT/ CONTRAST/ SOUND GRAPH/ SLEEP TIME |

Rechargeable battery (included)

1 Insert the rechargeable battery.
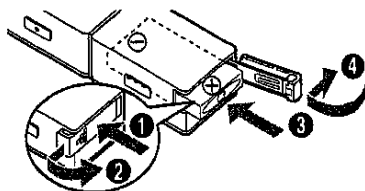
2 Connect the AC adaptor.
- Connect to a household mains socket.
- Insert firmly.
- The configuration of the AC adaptor differs according to the area.
- Recharging begins. "CHARGING" appears on the display during recharging.
- The display will turn off when recharging is complete.
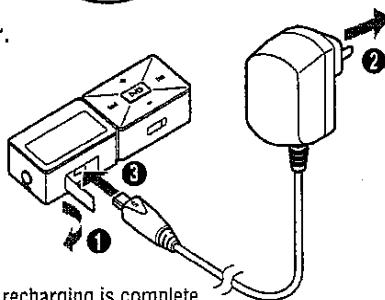
- Recharging also takes place when the player is connected to a computer's USB port.
- When the indicator starts flashing, the rechargeable battery should be recharged.

Battery indicator

Full   Empty

Note
- Recharge before using the unit for the first time or after an interval of three months or longer.
- It takes approximately 4 hours to fully charge the supplied battery.
- The supplied battery can be re-charged about 300 times. The battery has reached the end of its life if play time is dramatically reduced after fully recharging it.
- During recharging, separate the unit from any radios as it can cause interference.
- You can play the unit while charging, but the battery will not be fully charged. Stop play to charge fully.
- The unit is in the standby condition when the AC adaptor is connected. The primary circuit is always "live" as long as the AC adaptor is connected to an electrical outlet.
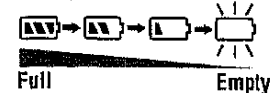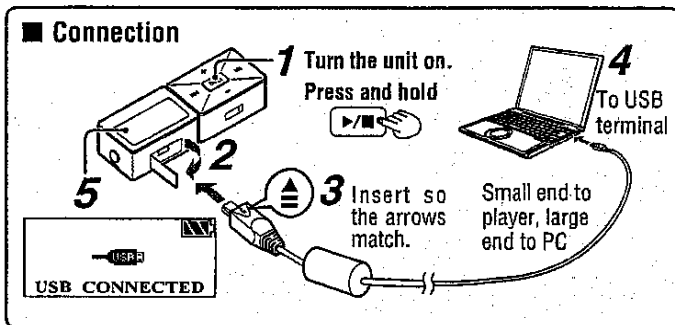
OS: Microsoft® Windows® 98SE, Windows® Me,
   Windows® 2000 Professional, Windows® XP Home Edition/Professional
Drive: CD-ROM Drive
• The player and USB Driver cannot be used on Microsoft® Windows® 3.1,
   Windows® 95, Windows® 98, Windows NT® and Macintosh®.
USB Driver:
• Operation on an upgraded OS is not guaranteed.
• Operation on an OS other than the one pre-installed is not guaranteed.
• Multi-CPU or Multi-boot environments are not supported.
• Only users having system administrator (Administrator) authority can use
  this software.

Connecting to a computer and downloading files

■ Connection

1 Turn the unit on.
Press and hold ▶/■

4 To USB terminal

3 Insert so the arrows match.
Small end to player, large end to PC.

USB CONNECTED

■ After connection
• **Windows® ME, 2000, or XP:** The computer automatically finds and installs the driver for the player.
• **Windows® 98SE:** Put the included CD-ROM in your disk drive, then follow the instructions on the computer screen to install the driver.
The player appears in My Computer or Explorer as a removable disk or device.

■ Downloading MP3 and WMA
1. **In My Computer or Explorer, open the player's folder (removable disk or device).**
2. **Open the PLAYER folder.**
3. **Copy and paste or drag and drop the MP3/WMA files from your computer's folder into the PLAYER folder.**
• "DOWNLOAD" appears on the player's display. Downloading is complete 10 seconds after "USB CONNECTED" re-appears.
• You can first put files into a new folder and then put that folder into the PLAYER folder. The folders are treated as sublists by the player and the names appear when you select play lists.

Note • You can use up to a maximum of 20 English alphanumeric characters, or up to a maximum of 20 Chinese or Japanese characters.
• There are some characters which cannot be displayed due to an embedded font data limitation.
• If there are no ID3 tags, the display shows the "filename.mp3".
• Supports MP3 ID3 V1 tags, ID3 V2 tags and WMA tags.
• Music protected by Windows Media Player cannot be played even if you download it.
• You cannot play MP3/WMA files that are in the player through the computer.

■ Recharging by USB
"CHARGING" will appear on the player's display if it remains connected to a computer by USB while powered off. The display will disappear when recharging is complete.

Files and folders structure display on your computer

Removable disk or device (this unit)

Copy and paste or drag and drop MP3/WMA files only into the PLAYER folder.

PLAYER
— 001track.mp3
— 002track.mp3
— 003track.wma
  album
      — 004track.mp3
      — 005track.wma
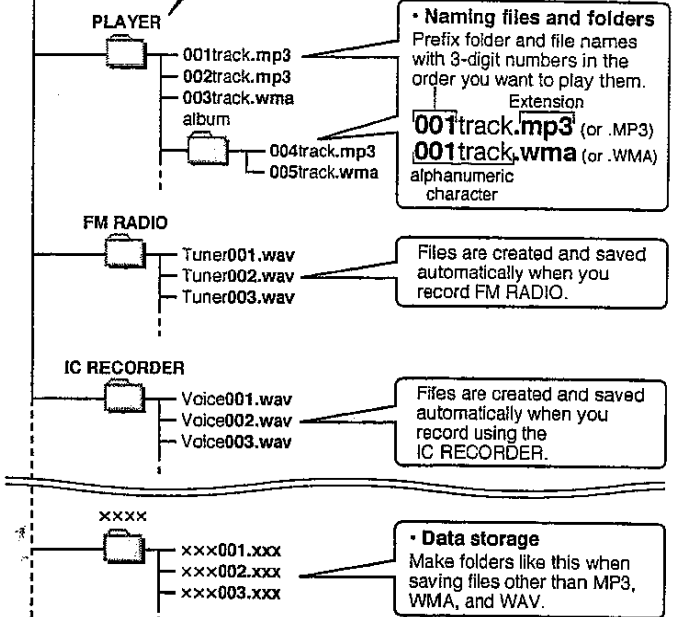
• **Naming files and folders**
Prefix folder and file names with 3-digit numbers in the order you want to play them.
Extension
001track.mp3 (or .MP3)
001track.wma (or .WMA)
alphanumeric character

FM RADIO
— Tuner001.wav
— Tuner002.wav
— Tuner003.wav

Files are created and saved automatically when you record FM RADIO.

IC RECORDER
— Voice001.wav
— Voice002.wav
— Voice003.wav

Files are created and saved automatically when you record using the IC RECORDER.

xxxx
— xxx001.xxx
— xxx002.xxx
— xxx003.xxx

• **Data storage**
Make folders like this when saving files other than MP3, WMA, and WAV.

Note
• Total maximum 384 tracks.
• Copy and paste or drag and drop MP3/WMA files only into the PLAYER folder. (Files put into folders other than the PLAYER folder are erased when you disconnect the USB cable.)
• You cannot upload MP3/WMA files from this unit's PLAYER folder to a computer, but you can erase them.

• You cannot play MP3/WMA files that are in this unit through the PC, even when they are connected with the USB cable.
• After downloading music data from the PC, the unit automatically begins play once the USB cable is removed. Stop play if desired.
• Do not remove the battery while recording with the IC RECORDER or FM RADIO as all the data you were recording at the time will be lost.
• If you try and play wave files (xxx.wav) that were not created with this unit's FM RADIO or IC RECORDER, the unit may stop functioning. If this occurs, re-insert the battery to restart the unit.
• Using the IC RECORDER as an example, assume the maximum number of recordings has been made up to Voice384. If you delete Voice005 and Voice016, both of these become blank numbers. If you then add a recording it will become Voice005 and the next recording will become Voice016.

Saving Data

• The data recorded using this unit's IC Recorder or FM RADIO can be uploaded to a PC.
• MP3 and WMA files in this unit can't be uploaded to a PC.
• You can use this unit as a removable disk for saving PC data by connecting the USB cable to a PC. (→left)

Specifications

Memory size:	SV-MP500V: 128 MB
	SV-MP510V: 256 MB
Supported sampling frequency:	MP3 32 kHz, 44.1 kHz, and 48 kHz
	WMA 8 kHz to 44.1 kHz
No. of channels:	Stereo, 2 channels (MUSIC, FM RADIO)
	Mono, 1 channel (IC RECORDER)
Frequency response:	20 Hz to 20,000 Hz (+0 dB, -6 dB) (MUSIC)
	300 Hz to 4,300 Hz (IC RECORDER, HQ mode)
Mic S/N:	37 dB (IC RECORDER, HQ mode)
Radio Frequency range (FM):	87.5 MHz to 108.0 MHz (50 kHz steps)
Output:	4.5 mW + 4.5 mW (16 Ω, M3 jack)
Power supply:	DC 1.5 V (one rechargeable battery)
Approximate play times※:	10 hours (MUSIC)
	6 hours (FM RADIO)
Approximate recording times※:	15 hours (IC RECORDER, LP mode)
	5 hours 30 minutes (FM RADIO)
Maximum dimensions (WxHxD):	43.8 × 61.5 × 21.9 mm
Cabinet dimensions (WxHxD):	42.1 × 60.0 × 21.9 mm
Mass:	45.5 g with battery
	34.1 g without battery
AC adaptor input:	AC110 V–240 V
	50 Hz/ 60 Hz

• Specifications are subject to change without notice.
• The play time shown depends on operating conditions.
• Mass and dimensions are approximate.
• MB means one million bytes. Useable capacity will be less.
※ When the supplied rechargeable battery is fully charged.

Displays

NO TRACK PLAY	• There is no audio data in the player.
ERROR	• The data format isn't standard.
LOW BATTERY	• The battery is dead. Please recharge it.
NO BATTERY	• You haven't inserted the rechargeable battery into the unit.
HOLD	• The HOLD switch is on.
FULL MEMORY	• Memory is full.
WARNING TRACK OVER	• You have tried to record more than 384 tracks into a play list.

Care and use

• Leave some slack in the cord of the earphones and the neck lanyard if you wind them around the unit.
Do not;
• disassemble, remodel, drop, or allow the unit to get wet.
• use or store in locations directly exposed to sunlight, corrosive gases, a heat vent, or a heating appliance.
• use or store in humid or dusty locations.
• use force to open the battery lid.
• play your headphones or earphones at a high volume.

■ Batteries

• Do not peel off the covering on batteries and do not use if the covering has been peeled off.
• Align the poles + and - correctly when inserting batteries.
• Remove batteries if you do not intend to use the unit for a long time.
• Do not throw into fire, short-circuit, disassemble, or subject to excessive heat.
• Do not attempt to recharge dry cell batteries.
• Keep out of the reach of small children.
• Accidental swallowing of batteries can result in stomach and intestinal damage.

■ Allergies

Discontinue use if you experience discomfort with the earphones or any other parts that directly contact your skin. Continued use may cause rashes or other allergic reactions.

Caution:
• Use only the provided shielded interface cables when connecting to computer.
• To reduce risk of radio interference caused by headphone, earphone or microphone cable, only purchase accessories with cable length less than 3 m.

Maintenance

Clean with a soft, dry cloth.
Do not use any type of abrasive pad, scouring powder or solvent such as alcohol or benzine.

Troubleshooting guide

Before requesting service, make the following checks. If you are in doubt about any of the check points, or if the solutions indicated in the chart do not solve the problem, consult your dealer.

No operation	• The HOLD function is on. • Charge the rechargeable battery.
No sound or there is a lot of noise	• Ensure the earphone plug is inserted firmly. • Wipe the plug clean with a clean cloth. • Separate the unit from other equipment, such as mobile phones and televisions. • Turn up the volume.
Play doesn't resume from the track where I stopped play	• This doesn't work if: You download, record, or delete files. The random play mode is on.
Play doesn't start from the first track	• The random play mode may be on. • Play usually resumes from the track where you last stopped play. Use skip to return to the first track.
The unit stops working	• Take the battery out for about 5 seconds, then reinsert it.
The display is too dark or too light	• Adjust the contrast. (→page 6)
Play doesn't start immediately	• Depending on the amount of data in the unit, it may take some time for play to start after downloading / recording or changing the battery.
The AC adaptor becomes warm during recharging	• This is normal.

THIS UNIT IS INTENDED FOR USE IN MODERATE CLIMATES.

WARNING:
TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK OR PRODUCT DAMAGE, DO NOT EXPOSE THIS APPARATUS TO RAIN, MOISTURE, DRIPPING OR SPLASHING AND THAT NO OBJECTS FILLED WITH LIQUIDS, SUCH AS VASES, SHALL BE PLACED ON THE APPARATUS.

CAUTION!
• DO NOT INSTALL OR PLACE THIS UNIT IN A BOOKCASE, BUILT-IN CABINET OR IN ANOTHER CONFINED SPACE. ENSURE THE UNIT IS WELL VENTILATED. TO PREVENT RISK OF ELECTRIC SHOCK OR FIRE HAZARD DUE TO OVERHEATING, ENSURE THAT CURTAINS AND ANY OTHER MATERIALS DO NOT OBSTRUCT THE VENTILATION VENTS.
• DO NOT OBSTRUCT THE UNIT'S VENTILATION OPENINGS WITH NEWSPAPERS, TABLECLOTHS, CURTAINS, AND SIMILAR ITEMS.
• DO NOT PLACE SOURCES OF NAKED FLAMES, SUCH AS LIGHTED CANDLES, ON THE UNIT.
• DISPOSE OF BATTERIES IN AN ENVIRONMENTALLY FRIENDLY MANNER.

This product may receive radio interference caused by mobile telephones during use. If such interference is apparent, please increase separation between the product and the mobile telephone.

The socket outlet shall be installed near the equipment and easily accessible or the mains plug or an appliance coupler shall remain readily operable.

• Microsoft, the Microsoft logo, the Windows, Windows logo, Windows NT and Windows Media are either trademarks or registered trademarks of Microsoft Corporation in the United States and other countries.

• WMA is a compression format developed by Microsoft Corporation. It achieves the same sound quality as MP3 with a file size that is smaller than that of MP3.
• MPEG Layer-3 audio decoding technology licensed from Fraunhofer IIS and Thomson multimedia.
• Other names of systems and products mentioned in these instructions are usually the registered trademarks or trademarks of the manufacturers who developed the system or product concerned.
The ™ and ® marks are not used to identify registered trademarks and trademarks in these instructions.

Playing tracks (MUSIC mode)

Preparation: Download (→page 2) or record tracks (→page 5)

1 Turn the unit on.

Press and hold [▶/■]

MUSIC
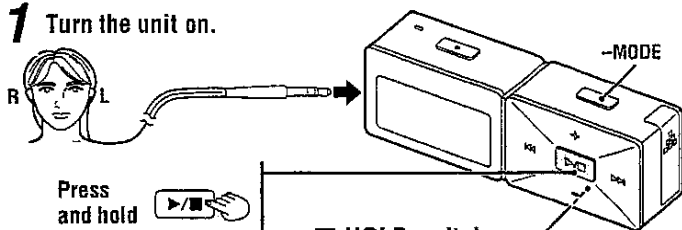
■ **POWER SAVE**
The power automatically turns off after about 10 seconds of inactivity.
• This time period can be adjusted. (→page 6)

-MODE

■ **HOLD switch**
Switch on to stop the player from responding when a button is accidently pressed. It prevents:
• The unit turning on unexpectedly causing the battery to run down.
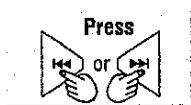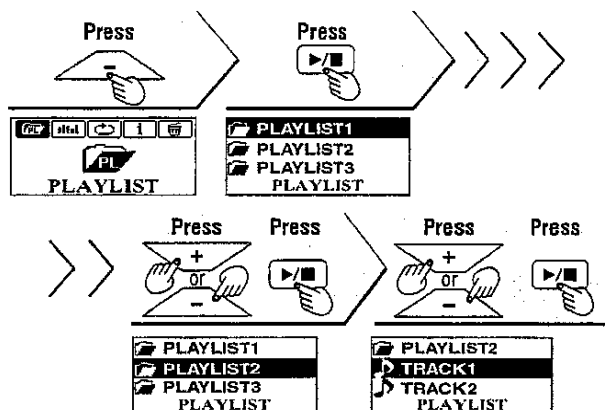• Interruptions to play or recording.

[HOLD►] HOLD ON   [HOLD►] Release (before operation)

2 Select MUSIC.
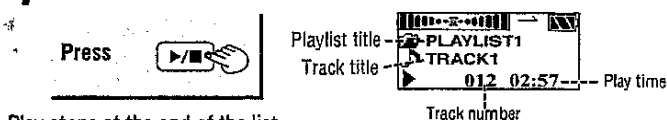Skip this step if MUSIC is already selected.

Press [◄◄] or [►►]

3 Select the play list.
• Skip this step if continuing play from where last stopped.
• To play recordings, select the FM RADIO play lists.

Press   Press [▶/■] 〉〉〉

PLAYLIST

PLAYLIST1
PLAYLIST2
PLAYLIST3
PLAYLIST

〉〉 Press + or -   Press [▶/■]   Press + or -   Press [▶/■]

PLAYLIST1
PLAYLIST2
PLAYLIST3
PLAYLIST

PLAYLIST2
TRACK1
TRACK2
PLAYLIST

4 Start play.

Press [▶/■]

Playlist title – PLAYLIST1
Track title – TRACK1
            012 02:57 –– Play time
                    Track number

Play stops at the end of the list.

Adjust the volume	Press ▽+ or △− (0-25)	Skip	Press	backward [►►] forward [◄◄]	Search	During play, press and hold	backward [►►] forward [◄◄]	Off	Press and hold [▶/■]

| A-B repeat | Press [-MODE] at the start point (A) | | Press [▶/■] |
| Play repeats between the two points. | and once more at the end point (B) | Stop | The unit turns off 10 seconds later. |
| | Press [-MODE] to cancel. | | Resume When you next press [▶/■], play resumes from where you stopped it. |

Using the language learner (LEARN mode)
Do each step within 5 seconds.

Preparation: Download the language learning model recording. (Play method is the same as MUSIC mode above.)

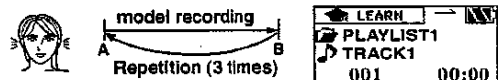### Repeating and listening to model recordings

1 Turn the unit on.

-MODE

Press and hold [▶/■]

[HOLD►] Release (before operation)
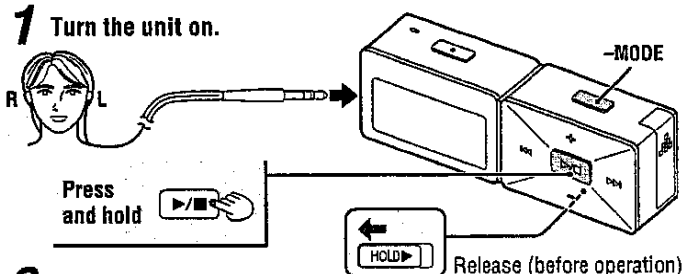
2 Select LEARN.
Skip this step if LEARN is already selected.

Press [◄◄] or [►►]   Press [▶/■]

3 The Learning play list starts.

model recording
A ─────── B
Repetition (3 times)

LEARN
PLAYLIST1
TRACK1
001   00:00

The unit automatically detects spaces in the initial audio recording where there is no sound or voice present. It repeats each part (phrase) between these spaces three times.

[Note] • If MANUAL mode is selected, the specific part to be repeated can be manually set similar to the A-B repeat function (→page 6).
• OFF : After play is stopped by pressing [▶/■], the unit automatically turns off after 1 minute has elapsed.

COMPARE function (follow and compare)

1 Start play.

2 Listen to the model recording.

LEARN
PLAYLIST1
TRACK1
001   00:01

model recording
A ─────── B

3 Press [REC/STOP].

4 Speak into the microphone.

MIC
REC/STOP

COMPARE
RECORDING...
TRACK1
        00:07

model recording | your voice
A ─────── B ----
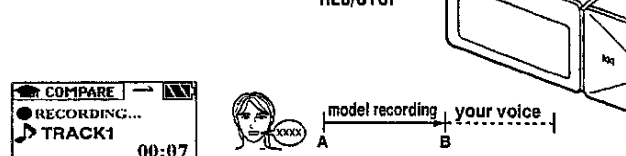
5 Press [REC/STOP].

6 Listen to the model recording and your recorded voice.

COMPARE
PLAYING...
TRACK1
02:50   00:00

model recording | your voice
A ─────── B ----
Repetition (3 times)

Using the FM radio (FM RADIO mode)

1 Turn the unit on.

REC/STOP

−MODE

R L
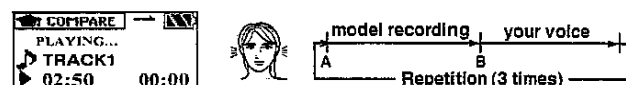
Extend the headphone cord.

Press and hold ▶/■

HOLD▶

Release (before operation)

2 Select FM RADIO.
Skip this step if FM RADIO is already selected.

Press ◄◄ or ▶▶   Press ▶/■

FM RADIO

IIII・・Σ・・ill MHz

3 Select manual or preset mode.

Press −MODE

IIII・・Σ・・ill MHz   Manual (No display)

FM1 ──── FM2

• FM1, FM2 →
See below

4 Select the station.
In manual mode, press and hold until the frequency starts scrolling to start automatic tuning. Tuning stops when a station is found.
• BAND STEP (→page 6)

DOWN   UP

Press ◄◄ ▶▶

5 Adjust the volume.

Press + −

Off   Press and hold ▶/■

Recording the radio

While listening to the station.

Press REC/STOP

Recording starts and the recording timer starts.

● RECORDING

FM TUNER

Tuner001.wav   02:57 — Recording time

Show available time	Press [−MODE]. Press again to show the recording time.
Stop	Press [REC/STOP].

To play the recording
Select MUSIC mode, then select the FM RADIO play list. (→page 4)

Presetting the station (FM1, FM2)

FM1: 20 stations can be stored.   FM2: 10 stations can be stored.

■ AUTO

During AUTO PRESET

Select FM1 or FM2 by step3.

Press and hold −MODE

Press

AUTOPRESET

BAND STEP 123...

AUTO PRESET

Press ▶/■

⚠ AUTO PRESET?

YES NO

Select to YES.

Press ◄◄

Press ▶/■

IIII・・Σ・・ill MHz

AUTO PRESET will start.

■ MANUAL

Select FM1 or FM2 by step3.

Press ▶/■

Select the frequency. + ◄◄ ▶▶ −

Select the channel.

Press ▶/■

Repeat as many times as is required.

Exit the mode menu.

Voice recording (IC RECORDER mode)

1 Turn the unit on.

REC/STOP

MIC   −MODE

Press and hold ▶/■

HOLD▶   Release (before operation)

2 Select IC RECORDER.
Skip this step if IC RECORDER is already selected.

Press ◄◄ or ▶▶   Press ▶/■

IC RECORDER

II STANDBY VAS

IC RECORDER
Voice001.wav
SP   00:02:57

• VAS→page 6

3 Start recording.

Press REC/STOP

● RECORDING VAS

IC RECORDER
Voice002.wav
SP   00:00:00

4 Speak into the microphone.

Show available time	Press [−MODE]. Press again to show the recording time.
Stop recording	Press [REC/STOP].
To play recordings	Press ▶/■ After all recorded tracks are played the unit returns to standby. During play, press again to stop and return to standby.
Off	Press and hold ▶/■

• Skip and Search method is the same as MUSIC mode.

SETTING MODE

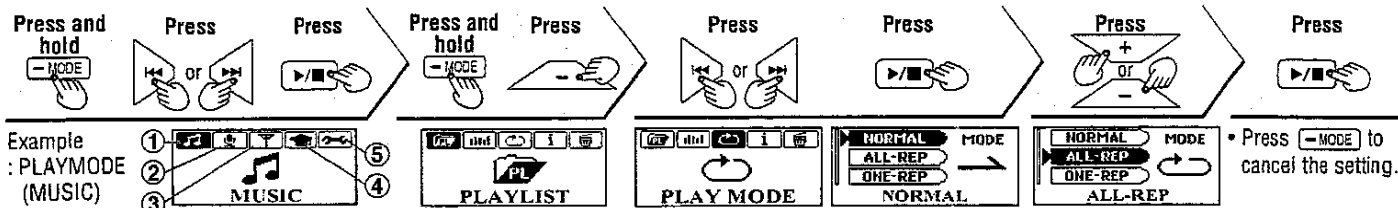You can set various items in each mode (SYSTEM refers to the unit's general settings).

1. Select MODE   **2. Settings for selected mode displayed.**   **3. Select the desired item**   **4. Set**   **5. Confirm**

Press and hold [–MODE] / Press ◄◄ or ►► / Press ►/■

Press and hold [–MODE] / Press

Press ◄◄ or ►► / Press ►/■

Press + or – / Press ►/■

• Press [–MODE] to cancel the setting.

Example : PLAYMODE (MUSIC)

PLAYLIST → PLAY MODE → NORMAL → ALL-REP

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① MUSIC

▣ PLAYLIST
(→ page 2)

▣ SOUND MODE
NORMAL / ROCK / JAZZ — NORMAL

Changing the Sound quality
NORMAL: No change
ROCK: Adds impact
JAZZ: Adds club-like atmosphere
POP: Clarifies the treble range
CLASSIC: Adds concert hall-like atmosphere
USER: Press ►,◄ to select the range and then press ▽⁺, △ to set various items.

+15 / 0 / –15 — 60 200 1K 3K 14K

▣ PLAY MODE
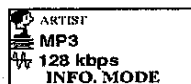NORMAL / ALL-REP / ONE-REP — NORMAL

Repeat and Random play
→NORMAL: Normal play
ALL-REP: All track repeat in a list
1-ONE-REP: 1 track repeat
RANDOM: All track random repeat in a list.

▣ INFO. MODE
ARTIST / MP3 / 128 kbps — INFO. MODE

Track Information
Show title, artist and data information.

▣ ERASE MODE
TRACK / PLAYLIST / ALL — NORMAL

Erasing the tracks and lists
• When selecting ALL, press ► (YES) and press ►/■ .

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② IC RECORDER

▣ RECORD MODE
HQ 88 kbps / SP 44 kbps / LP 32 kbps — SP - 01:34:57

Selecting the record mode
Recording time guide (in hours)
(Maximum hours available when player is empty of files.)

Mode	SV-MP500V	SV-MP510V
HQ	3	6
SP	6	13
LP	9	18

▣ VAS MODE
ON / OFF — VAS ON/OFF?

Voice Active System
On and off for VAS.
(This function puts the recording in standby mode when there in no input signal)

▣ SPEED MODE
LOW NOR HIGH — SPEED ADJUST
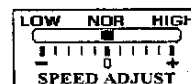
Changing the play speed
Press ►,◄ to adjust the playing speed.

▣ ERASE MODE
(= MUSIC)
• There is no playlist.

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③ FM RADIO

▣ AUTO PRESET
(→page 5)

▣ BAND STEP
BAND STEP / 50kHz / 100kHz — 100 kHz

Selecting the step

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④ LEARN

▣ PLAYLIST
(→ page 2)

▣ PLAY MODE (= MUSIC)

▣ REPEAT SET
AUTO REP / MANUAL — AUTO REPEAT

Selecting AUTO REP or MANUAL
• If MANUAL is selected, the specific area to be repeated can be set manually similar to the A-B repeat function. (→page 4)

<AUTO REP> AUTO REP / TIME / LEVEL — 3 REPEAT TIME

Detailed settings for AUTO
• **TIME:** Number of times to repeat
• **LEVEL:** The noise level for determining a space
• **BLANK:** The time duration for determining a space

<MANUAL> MANUAL / TIME / TRACE — 3 REPEAT TIME

Detailed settings for MANUAL
• **TIME:** Number of times to repeat
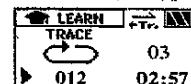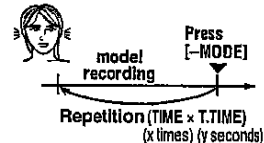• **TRACE※:** TRACE / A→B repeat
• **T.TIME:** Number of seconds to trace

※ TRACE
Repeat and listen to the specified trace back segment.
1. To set MANUAL and TRACE to on.
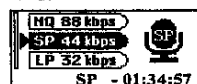2. During play, press [–MODE].
3. Listen to the model recording.

model recording → Press [–MODE]

Repetition (TIME × T.TIME)
(x times) (y seconds)

LEARN / TRACE — 03 / 012 02:57

▣ SPEED MODE
(= IC RECORDER)

▣ ERASE MODE
(= MUSIC)

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⑤ SYSTEM

▣ LANGUAGE
ENGLISH / 繁體中文 / 简体中文 — ENGLISH

Changing the language in which track and play list titles are displayed.

▣ POWER SAVE
10 SEC / 30 SEC / 1 MIN — 10 SEC

Setting the elapsed time before the power automatically turns off due to inactivity

▣ BACK LIGHT
5 SEC / 20 SEC / 1 MIN — 5 SEC

Setting the duration the display will light when a button is pressed

▣ CONTRAST
0 — – 0 +

Adjusting the screen contrast
Press ◄,►.

▣ SOUND GRAPH
WAVE FORM / SPECTRUM / METER — WAVE FORM

Selecting the display graphic mode

▣ SLEEP TIME
OFF / 30 MIN / 60 MIN — OFF

Setting the time the unit will automatically turn off in the SLEEP function
• SLEEP is available in MUSIC and FM RADIO modes.
• The display will show "zZ" when SLEEP is selected.

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