

POCKET RECORDER POCKETRAK C24

Reference Manual

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About the manuals

The operation of the POCKETRAK C24 is explained in this Reference Manual (this file) and also in the Owner's Manual (printed version).

Owner's Manual (printed version): The Owner's Manual includes information about precautions, setup and basic operation that will get you started as easily as possible.

Reference Manual (this file): The Reference Manual includes part names and functions, detailed descriptions and procedures that will help you take full advantage of the POCKETRAK C24, and troubleshooting information.

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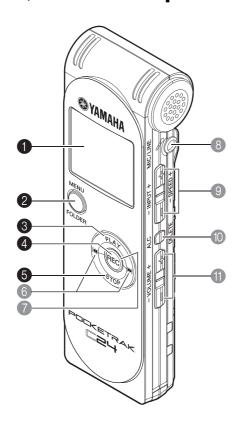
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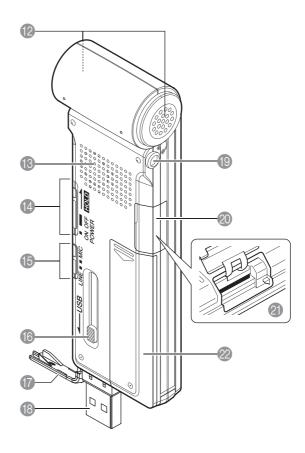
The illustrations and LCD screens shown in this manual are for instructional purposes only and may appear somewhat different from those on your instrument.

1 Starting Up

Part names and functions

Front, side and back panels





- 1 LCD screen
- MENU/FOLDER button

While the main screen is displayed, press and hold down this button to display the menu screen. While the main screen is displayed, press and hold down this button for at least two (2) seconds to display the folder select screen. Press this button during the menu setting operation or while the folder select screen is displayed to return to the previous screen or setting.

PLAY button

Plays a file. Press this button during the menu setting operation to move the cursor to the next item up.

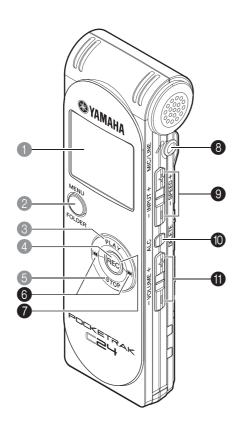
- **4** REC button
 - Starts or pauses recording.

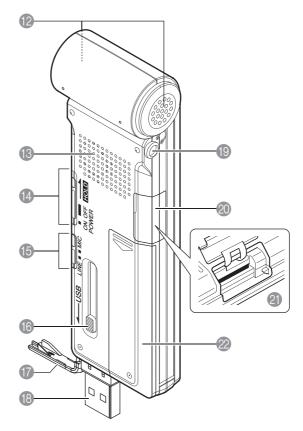
Press this button during the menu setting operation to confirm the selection and proceed to the next screen.

6 STOP button

Stops recording or playback. Press this button during the menu setting operation to move the cursor to the next item down.

Press this button repeatedly while the recorder is stopped to select an indicator.





6 ► (fast reverse/fast forward) button

Press these buttons during playback to fast reverse, fast forward or locate the beginning of a file. While the recorder is stopped, use these buttons to select a file in the folders. Press these buttons during the menu setting operation to move to the next (right or left) item or the next layer (up or down).

1 LED indicator

Lights up red during recording, and flashes red during excessive peaks or recording standby (factory default setting).

MIC/LINE jack

External stereo microphone/line level input jack.

- Recording with an external microphone (page 10)
- Recording from an external audio device (such as a CD player) (page 11)

9 INPUT/SPEED (+/-) buttons

Adjust the recording level or playback speed.

ALC/DELETE button

While the main screen is displayed, press this button to turn the ALC (Auto Level Control) function on or off.

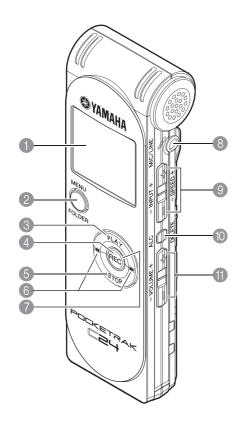
While the main screen is displayed, press and hold down this button for at least two (2) seconds to delete a file, folder or index mark. It also recalls the Recycle Bin menu while the Recycle Bin folder is selected.

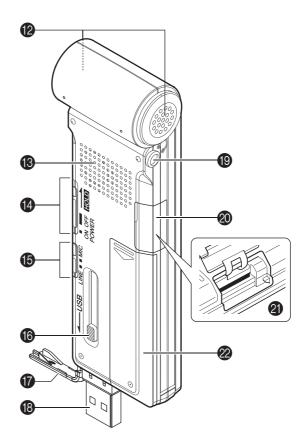
Press this button during recording or playback to insert index marks (playback position locators).

- Turning the ALC (Auto Level Control) on and off (page 13)
- Deleting (page 44)
- Inserting and deleting index marks (page 40)

1 VOLUME (+/–) buttons

Adjusts the volume level of the sound output from the speaker or headphones.





- Stereo microphone
- Speaker
- POWER/HOLD switch

Turns the power to the recorder on or off. Slide the switch briefly to turn the power on. Slide and hold the switch at least two (2) seconds to turn the power off. Set the switch to HOLD to engage the Hold function (to avoid accidental operation).

(b) MIC/LINE switch

Enables you to select mic recording or line recording (from an external audio device).

13 USB plug slide switch

When you use the USB plug, move this USB plug slide switch toward the bottom so that the USB plug will extend.

17 USB plug compartment cover

The USB plug is housed under this cover. If you do not use the USB plug, keep the cover closed.

USB plug

Connect this plug to a computer's USB terminal.

Headphones jack

Connect inner-ear headphones (or other types of headphones) with a stereo miniplug here.

microSD card slot cover

The microSD card slot is housed under this cover. If you do not use a microSD card, keep the cover closed.

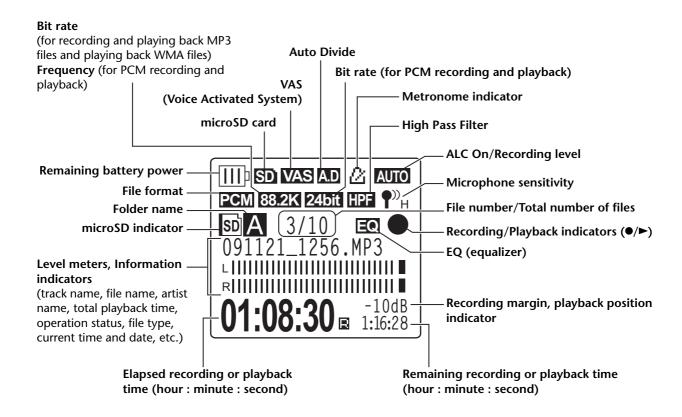
a microSD card slot

Insert a microSD card here for recording or playback.

Battery cover

LCD screen

The unit will not display all the following indicators and items at the same time.



Useful information

• What is Linear PCM (Pulse Code Modulation) recording?

Linear PCM (LPCM) recording is a digital recording method that samples analog audio signals at a certain frequency and saves them as digital signals without compression. Music CDs (CD-DA-CD digital Audio) use PCM recording (sampling rate of 44.1kHz, bit depth of 16-bit samples, bit rate of 1,411kbps, and frequency response from 20 to 20,000Hz). PCM recordings are digitally-recorded unprocessed audio, and are supposed to be of the highest sound quality.

"WAVE" format is used to import these PCM recording files into a computer. The WAVE file extension is ".WAV". MP3 and WMA format files are created by compressing the LPCM data.

• What is recording margin?

Recording margin is the space (margin) expressed in dB between 0dB and the most recent maximum input volume.

2 Recording

For information on recording preparation, please refer to the Owner's Manual.

Recording a musical performance

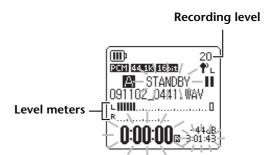
Before recording, make sure that the recorder displays the recording level (that is, the ALC function is turned off) (page 13). Also, set [MICSENS] (microphone sensitivity) to [LOW] (page 13).

 Point the built-in stereo microphone toward the sound source, then press the [REC] button.

The unit enters recording [STANDBY] mode. The LED indicator flashes red slowly. (Recording has not started yet.)

Note: _____

The level meter will move left or right in response to the sound level from the microphone.



2. Press the [INPUT/SPEED] (+/-) buttons located on the side panel to adjust the INPUT level (recording level).

Adjust the recording level while playing music toward the microphone.

ŸHint:

Setting the recording peak limiter

When the recording peak limiter is set to ON, the recorder reduces sound distortion by automatically adjusting excessive peaks. It is recommended that you set the limiter to ON when you record audio (page 17). However, if you want to adjust the recording level (see below), set the limiter to OFF.

■ Adjusting the recording level

You can adjust the recording level in the range of 0 through 40. When the recording level is set to "0," silence will be recorded.

• Setting an appropriate recording level

Adjust the recording level so that at the loudest source volume the level meter will move as far to the right as possible without deflecting all the way (and so that the recording LED will NOT flash rapidly during recording).

• If the recording level is too low:

Press the [INPUT/SPEED](+) button to adjust the recording level so that the level meter will move moderately to the right.

Note:

If an appropriate recording level cannot be achieved even if you raise the level to "40," set [MIC SENS] to [HIGH] (page 13).





• If the recording level is too high:

The level meter frequently will move all the way to the right, the recording LED will flash rapidly, and the **PEAK** indicator will appear on screen.

Press the [INPUT/SPEED](–) button to lower the recording level.

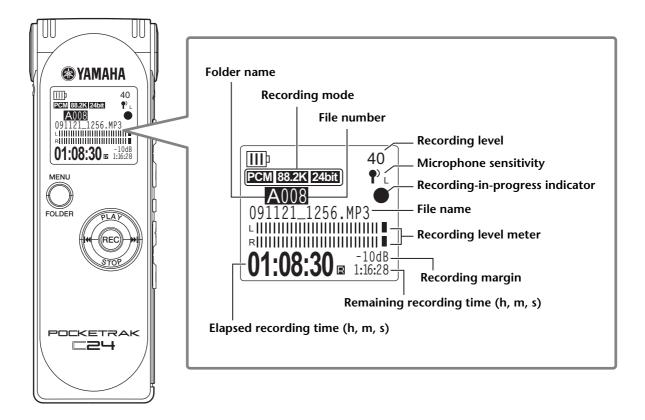
3. Press the [REC] button again.

The LED lights up red and recording begins.



During recording, you can monitor audio being recorded through the headphones.

Indicators displayed during recording



∜Hint:

Recording margin: The space (margin) expressed in dB between 0dB and the most recent maximum input volume.

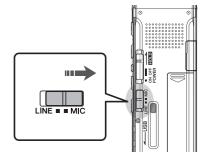
4. Press the [STOP] button to stop recording.

The LED indicator turns off and the unit displays the main screen.

Recording with an external microphone

You can use an external microphone for recording (instead of using the built-in stereo microphone). For an external microphone, you can use a stereo or monaural powered microphone, or a stereo or monaural dynamic microphone. To set up the recorder for your type of external microphone, follow the steps below:

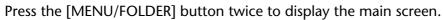
Slide the [MIC/LINE] switch toward [MIC].
 The recorder is set up to record with an external microphone and the microphone indicator (♠) appears in the upper right of the LCD.

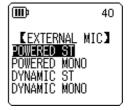


- 2. Press the [MENU/FOLDER] button while the main screen is displayed, press the [PLAY]/[STOP] buttons to select [REC MENU], then press the [REC] button.
- 3. Press the [PLAY]/[STOP] buttons to select [EXTERNAL MIC], then press the [REC] button.



4. Press the [PLAY]/[STOP] buttons repeatedly to select [POWERED ST], [POWERED MONO], [DYNAMIC ST] or [DYNAMIC MONO] depending on the microphone type, then press the [REC] button.





- **5.** Connect the microphone to the recorder's [MIC/LINE] socket located on the right side panel, then point the microphone toward the sound source.
- 6. Press the [REC] button on the recorder.

Recording starts.

If the ALC function is turned off, the unit enters recording standby mode. Press the [REC] button again.

Yamaha recommends that you use a microphone with the following specifications as an external microphone.

If you use an external microphone with the following specifications, select [POWERED ST] or [POWERED MONO] as the microphone type in Step 4.

Туре	Electret condenser microphone that features plug-in power operation
Impedance	2k ohms
Power supply	Guaranteed operation at 1.3V
Plug	Mini plug (∅3.5mm)

Note

If you disconnect the external microphone, the recorder will automatically be reset for recording through the built-in microphone.

Recording from an external audio device (such as a CD player)

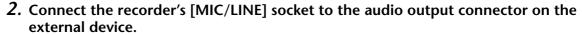
You can record line input sources from an external audio device (such as a CD player or MD player).

1. While the main screen is displayed, slide the [MIC/LINE] switch toward [LINE].

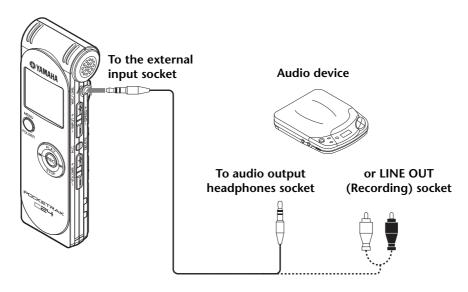
The recorder is set up to record line input sources, and the indicator in the upper right of the LCD displays "LINE."

Note:

- For information on how to change the recording mode, see page 12.
- · During an MP3 recording, you can use the Auto Divide function (see page 20).



Use a commercially-available audio cable (stereo mini plug, 3.5mm, with no resistance).



3. Adjust the volume level of the external audio device while playing the recording source.

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Try a test recording to find an appropriate recording level.

4. Play the recording source on the external audio device and press the [REC] button. Recording starts.

Note:

- · Recordings are automatically stored in the LINE (L) folder.
- · While you are recording audio through the line input from the connected external device, no audio will be heard from the speaker. Use the headphones to listen to the audio being recorded.
- **5.** Press the [STOP] button to stop recording. Stop playback on the external device.

3 Recording Settings

Changing the Recording mode (Selecting a sound quality)

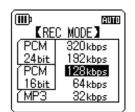
The recorder enables you to record audio in MP3 or PCM (WAV) format. In PCM mode, non-compressed audio data will be recorded. In MP3 mode, compressed audio data will be recorded. With the better sound quality, the data size will be larger and available recording time will be shorter.

Changing Recording mode

- 1. Press the [MENU/FOLDER] button while the main screen is displayed, press the [PLAY]/[STOP] buttons to select [REC MENU], then press the [REC] button.
- 2. Press the [PLAY]/[STOP] buttons to select [REC MODE], then press the [REC] button.



- 3. Press the [PLAY]/[STOP], [I◄◄]/[▶►I] buttons to select the desired Recording format from [PCM 24bit], [PCM 16bit], [MP3], then press the [REC] button.
- 4. Press the [PLAY]/[STOP] buttons to select the desired frequency or bit rate, then press the [REC] button.



5. Press the [MENU/FOLDER] button twice.

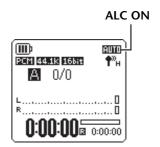
The recorder displays the main screen.

Turning the ALC (Auto Level Control) on and off

Note: ______
You can turn the ALC function on or off when recording audio to folders A–D.

• Turning the ALC function on

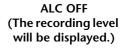
Press the [ALC/DELETE] button while the main screen is displayed to display in the upper right of the LCD. The recording level will automatically be adjusted in response to the input level.

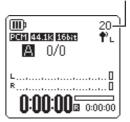


• Turning the ALC function off

Press the [ALC/DELETE] button while the main screen is displayed to display the recording level in the upper right of the LCD.

You can change the recording level in increments (see page 8).





Note:

- · You cannot adjust the recording level when you are recording audio from a connected external device (see page 11).
- · The peak limiter is available only when the ALC function is turned off.

Setting the microphone sensitivity (MIC SENS)

You can set the microphone sensitivity level to high or low to accommodate the recording environment.

Procedure:

Press the [MENU/FOLDER] button while the main screen is displayed, select [REC MENU] \rightarrow [MIC SENS] \rightarrow [HIGH] or [LOW], then press the [REC] button.

If the volume level is low (e.g., for conference meetings), select [HIGH]. If the volume level is high (e.g., for musical practice sessions), select [LOW].

The indicator displayed in the upper right of the LCD when recording:

When the [MIC SENS] switch is set to [HIGH]: $\P^{\mathcal{Y}}_{H}$

When the [MIC SENS] switch is set to [LOW]: \P

Setting the recording EQ (equalizer)

Setting the recording EQ enables to record the audio of the desired tonal quality by boosting the lower or higher frequency ranges.

You can use the recording EQ only when recording audio to folders A–D and when the ALC function is turned off.

About recording EQ options

The recorder offers eight recording EQ presets and one USER recording EQ option (that enables you to customize by cutting and boosting five EQ bands individually). The recording EQ presets include RECOMMEND, FLAT, SUPER BASS, BASS, MIDDLE, BASS&TREBLE, TREBLE, and SUPER TREBLE.

Features of each recording EQ preset

RECOMMEND	FLAT	SUPER BASS	BASS
150 500 1k 4k 12k	12	SUPER BASS #12	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
This preset is recommended for recording via the built-in microphone.	No EQ is used for recording.	This preset significantly boosts the lower frequency range.	This preset mildly boosts the lower frequency range.

MIDDLE	BASS&TREBLE	TREBLE	SUPER TREBLE
12	BASS& REBLE +12	112	SUPER TREBLE +12
This preset boosts the mid frequency range.	This preset mildly boosts the lower and higher frequency ranges.	This preset mildly boosts the higher frequency range.	This preset significantly boosts the higher frequency range.

Note:

You cannot change the parameters of these eight recording EQ presets. Select the USER recording EQ option if you wish to customize the recording EQ.

Selecting a recording EQ option

- 1. Press the [ALC/DELETE] button to turn the ALC function off (page 13).
- 2. Press and hold down the [MENU/FOLDER] button for at least two (2) seconds while the main screen is displayed, press the [PLAY]/[STOP], [◄◄]/[►►I] buttons to select a folder into which to record, then press the [REC] button.

 Select a folder from folders A–D.
- **3. Press the [REC] button.**The unit displays the [STANDBY] indicator.



- **4.** Press the [MENU/FOLDER] button while the [STANDBY] indicator is displayed. The unit displays the REC MENU screen.
- 5. Press the [PLAY]/[STOP] buttons to select [RECORDING EQ], then press the [REC] button.
 The unit displays the recording EQ screen.



6. Press the [◄◄]/[▶►I] buttons to select the desired recording EQ option.

You can select from eight recording EQ presets and one USER recording EQ (which enables you to customize the EQ settings).



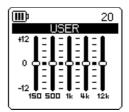
- · For information on how to customize the USER recording EQ option, refer to "Customizing the recording EQ" on page 16.
- · To cancel the operation, press the [MENU/FOLDER] button.
- 7. Press the [REC] button.

The selection of the recording EQ is confirmed. Press the [MENU/FOLDER] button to display the [STANDBY] indicator. Adjust the recording level, then press the [REC] button again to start recording.

Customizing the recording EQ

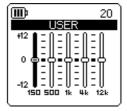
The USER recording EQ enables you to customize the level of five EQ bands.

Select "USER" while the recording EQ screen is displayed.
 Refer to steps 1–5 in the "Selecting a recording EQ option" section on page 15.



2. Press the [STOP] button.

The 150Hz band will be selected and displayed as a black bar.



3. Press the [◄◄]/[▶▶] buttons to select a frequency band that you wish to cut or boost.

The selected frequency band will be displayed as a black bar.

4. Press the [PLAY]/[STOP] buttons to boost or cut the level of the selected frequency band.

You can boost the level by as much as +12dB or cut the level by as much as -12dB in 1dB steps. The larger value will raise the recording level and boost the frequency band.

Note

- · To adjust the level of other frequency bands, repeat steps 3 and 4.
- · To cancel the operation, press the [MENU/FOLDER] button.
- 5. Press the [MENU/FOLDER] button.

The USER recording EQ is now customized. Press the [MENU/FOLDER] button to display the [STANDBY] indicator. Adjust the recording level, then press the [REC] button again to start recording.

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The recording EQ setting is retained when you turn the power off or change the battery. However, the setting will be lost if you change the battery without first turning the power off.

Setting the recording peak limiter

When the recording peak limiter is set to ON, the recorder reduces sound distortion by automatically adjusting excessive peaks. It is recommended that you set the limiter to ON when you are recording audio. The peak limiter is available only when the ALC is set to OFF.

Procedure:

Press the [MENU/FOLDER] button while the main screen is displayed, select [REC MENU] \rightarrow [REC LIMITER] \rightarrow [ON], then press the [REC] button.

To cancel the recording peak limiter, select [OFF].

Note:

Set an appropriate recording level (page 8) for high-fidelity recording.



Setting the High Pass Filter (HPF)

You can cut the low frequency range by switching the High Pass Filter on. The filter reduces the level of chatting voices, wind and other noise in the recording environment and enables you to record clearer audio.

Procedure:

Press the [MENU/FOLDER] button while the main screen is displayed, select [REC MENU] \rightarrow [HPF] (High Pass Filter) \rightarrow [ON], then press the [REC] button.



The **HPF** indicator will appear on the main screen.

To cancel the High Pass Filter, select [OFF].

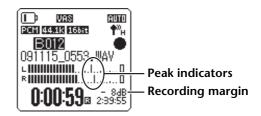


Setting the recording peak hold indication

You can set the duration of the recording peak and recording margin indicators that are displayed on the LCD. This setting can make it easier to check the recording level, especially when you want to record live with the recording level set to maximum, or to avoid clipping.

ŸHint:

The peak hold function sustains the indication of level meter segments for a specified duration so that you can view the recording peak levels easily. This function enables you to make high-quality recordings by adjusting the recording level (page 8) so that the recording margin of the recording peaks in a song will be close to OdB.



 Press the [MENU/FOLDER] button while the main screen is displayed, select [REC MENU] → [REC PEAK HOLD], then press the [REC] button.



2. Press the [PLAY]/[STOP] buttons to set the peak hold time to [INF] (infinity) or a value from 0 to 10 seconds, in 1 sec (second) steps, then press the [REC] button.



3. Press the [MENU/FOLDER] button twice.

The unit displays the main screen.

VAS (Voice Activated System) recording

When the VAS recording function is turned on, if the unit is in recording pause mode, the unit will automatically start to record as soon as it detects audio at a level above a certain threshold. The unit will pause recording when the detected audio level falls below the threshold. The VAS function enables you to start a new recording each time you start playing your musical instrument during practice sessions. VAS recording is available only when ALC is set to ON.

Note:

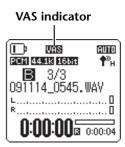
Audio at a level below a certain threshold will be undetected and will not be recorded. If you are planning to record important audio, set the VAS recording to OFF.

1. Press the [MENU/FOLDER] button while the main screen is displayed, select [REC MENU] \rightarrow [VAS] \rightarrow [ON], then press the [REC] button.



- 2. Press the [MENU/FOLDER] button twice.
 The indicator will appear on the main screen.
- 3. Press the [REC] button.

As soon as the unit detects audio, recording begins. If the unit does not detect any audio, the elapsed recording time indicator, the remaining recording time indicator and the VAS indicator will flash, and the unit will enter Recording Pause mode.



Note:

- If the recorder does not detect any audio or does not pause recording, adjust the threshold by following the procedure in the "Setting the voice sensing level (VAS value)" section below.
- · If you start recording while the VAS function is turned on, the first two seconds or so will be recorded with no exception.
- · If the High Pass Filter (HPF) is turned on, the VAS recording function may be unavailable. Set the High Pass Filter (HPF) to OFF.

Setting the voice sensing level (VAS value)

You can adjust the voice sensing level in five steps (1–5) to accommodate the source volume level. A larger value will increase the voice activation sensitivity so recording will be triggered by lower-level audio. If the value is too small, the recorder may not detect audio. Set the microphone sensitivity (see page 13) in accordance with the source input level so that the VAS function can work more effectively.

Procedure:

To adjust the voice sensing level, press the [INPUT/SPEED] (+/–) buttons while recording with the VAS function turned on.





Setting the Auto Divide function (AUTO DIVIDE)

If you turn the Auto Divide function on when recording a line source, such as tracks from a CD player, the unit automatically detects a silent pause between tracks and records each track as an individual file. More specifically, when the recorder detects a silent pause of two seconds or longer, it pauses recording, thus storing the audio data up to the silent pause as one file. In this way, the unit will record the first track as file 1, the second track as file 2, and so on.

This function is available only for MP3 files recorded via Line In. You cannot use this function for PCM line recordings, or PCM or MP3 recordings made by using the built-in or external microphone.

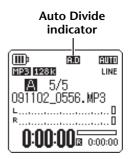
1. Press the [MENU/FOLDER] button while the main screen is displayed, select [REC MENU] \rightarrow [AUTO DIVIDE] \rightarrow [ON], then press the [REC] button.



2. Press the [MENU/FOLDER] button twice.

The unit displays the main screen, including the A.D (Auto Divide) indicator.

To cancel the Auto Divide function, select [OFF] in step 1.



Note:

- The function will not work if the recorder does not detect a silence of two seconds between tracks on a live CD or similar source. In this case, use the Divide File function (see page 37) to manually divide the files.
- · If the unit detects silence for 15 seconds or more, recording stops automatically.

Recording with the self timer

You can specify the time duration from the press of the [REC] button until the start of recording. This function is useful when you need some time to prepare. For example, you may wish to practice your musical instrument until the actual recording starts.

 Press the [MENU/FOLDER] button while the main screen is displayed, select [REC MENU] → [SELF TIMER], then press the [REC] button.



2. Press the [PLAY]/[STOP] buttons to select a self timer value of 5, 10 or 30 seconds, then press the [REC] button.



- 3. Press the [MENU/FOLDER] button twice.
 - The recorder displays the main screen.
- 4. Press and hold down the [MENU/FOLDER] button for at least two (2) seconds, press the [PLAY]/[STOP], [◄◄]/[▶►] buttons to select a folder into which to record, then press the [REC] button.
- 5. Press the [REC] button.

The recorder displays the self timer standby screen, then starts counting down for the duration specified in step 2. (The LED indicator flashes.)

Note:	
If the ALC function is turned off, the unit enters recording standby mode. Adjust the recording level, then press the [REC] button again.	
6. After the time specified in step 2 expires, recording begins.	

Once self timer recording begins, the self timer recording setting will be stored until you turn the self timer off or initialize the menu settings.

♥Hint:

To cancel self timer recording, press the [STOP] button during countdown.

Changing the LED setting

You can set the LED indicator so that it will light up during recording (the ON option), or NOT light up during recording (the OFF option). Alternatively, you can set the indicator so that it will function as a recording peak LED indicator (the FLASH ON PEAK option), in which case the LED indicator will flash only at recording peaks, and otherwise turn off during recording.

 Press the [MENU/FOLDER] button while the main screen is displayed, select [COMMON MENU] → [REC LED], then press the [REC] button.



2. Press the [PLAY]/[STOP] buttons to select [OFF], [ON] or [FLASH ON PEAK], then press the [REC] button.

[OFF]	The LED indicator remains off during recording, recording standby mode, recording pause mode, and playback.
[ON]	The LED indicator lights up red during recording. The LED indicator flashes red rapidly during excessive recording peaks. The LED indicator flashes red slowly during recording standby mode or recording pause mode.
[FLASH ON PEAK]	The LED indicator flashes red rapidly during excessive recording peaks. The LED indicator remains off during recording, recording standby mode, and recording pause mode.



3. Press the [MENU/FOLDER] button twice.

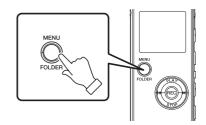
The unit displays the main screen.

4 Playback

Playing files

The recorder plays MP3 and WMA format files in addition to WAV format files recorded on the unit. To play back a file recorded on the unit, select a folder from the MIC (A–D) folders or the LINE (L) folder. To play back a file transferred from a computer, select the MUSIC (M) folder.

1. While the main screen is displayed, press and hold down the [MENU/FOLDER] button for at least two (2) seconds.



(III)

[SELECT FOLDER]

M P1 P2 P3 P4 P5

Двсб

2. Press the [PLAY]/[STOP], [I◄◄]/[▶▶1] buttons to select a folder from which to play back a file, then press the [REC] button.

A-D: Files recorded via a microphone

L: Files recorded via the line connection

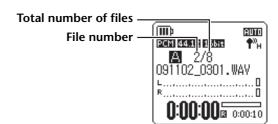
M: Files transferred from your computer

P1–P5: Playlists (You can assign tracks in the M folder to Playlists.)

(See page 41.)

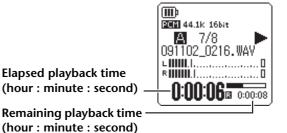
(间): Recycle Bin

3. Press the [◄◄]/[►►] buttons to select the desired file number.



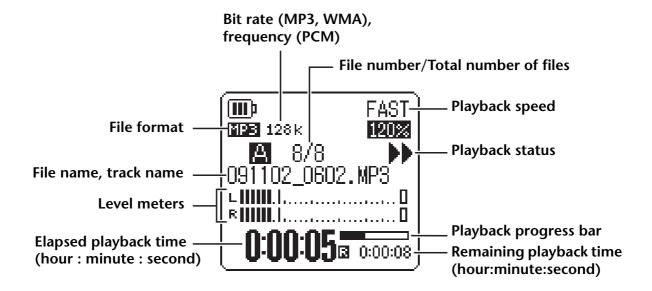
4. Press the [PLAY] button.

The recorder starts playing back the file.



- **5.** Press the [VOLUME] (+/-) buttons to set the proper playback volume level. The level can be set in 21 steps (0–20).
- **6.** Press the [STOP] button to stop playback. Press the [PLAY] button again to resume playback.

Indicators displayed during playback



Note: _____

With some files, the indicated elapsed playback time may not match the actual elapsed time. Also, the names of certain artists or tracks stored in the unit may not be displayed.

Fast forwarding and fast reversing

■ Fast forwarding and fast reversing

Press and hold down the [►►] button for more than one (1) second during playback to fast forward the currently-playing file. Press and hold down the [►►] button for more than one (1) second during playback to fast reverse the currently-playing file. Once the unit starts to fast forward or reverse, it will continue doing so even if you release the button. To resume normal playback, press the [PLAY] button.

■ Locating the file to play back

Press the [►►] button once briefly while the unit is playing or stopped to locate the beginning of the next file.

Press the [◄◄] button once briefly to locate the beginning of the previous file.

■ Locating the index

While the unit is playing back a file that contains index marks, press the [►►] button once briefly to skip to the next index mark.

Press the [◄◄] button once briefly to locate the previous index mark.

ŸHint:		
	- rmation on inserting index marks, refer to page 40.	

Using headphones

Use headphones if you do not want sound to be output from the speaker or if the sound from the speaker is difficult to hear. Connect the headphones to the headphones socket located on the side panel of the unit.

You can listen to music through the headphones and achieve your preferred tonal balance by setting the Sound EQ function (see page 31).

Note:	
The Sound EQ function is effective only for playback through headphones.	

5 Playback Settings

Changing the playback speed

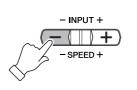
You can decrease or increase the playback speed, if necessary. This is useful if you want to listen carefully to complex musical parts or to skip quickly through unimportant parts of a recorded meeting.

- To increase the playback speed:

 During playback, press the [INPUT/SPEED](+) button.

 Each press of the button will increase the playback speed.
- To reduce the playback speed:
 During playback, press the [INPUT/SPEED](–) button.

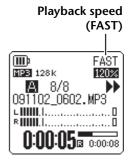
 Each press of the button will reduce the playback speed.



- INPUT +

With the [SLOW] option, you can change the speed in 5% steps. With the [FAST] option, you can change the speed in 10% steps. The playback speed varies with the file format as follows:

	PLAY (normal)	SLOW	FAST
MP3, WMA	100%	50%–100% (in 5% steps)	100%–200% (in 10% steps)
PCM (WAV)	100%	Playback speed cannot be changed.	



The recorder remembers the changed playback speed after the playback is stopped, and will use that speed for the next playback operation. However, the playback speed will be reset to "normal" when the power is turned off.

Note:

- · You can change the speed only for playback of MP3 and WMA files. You cannot change the speed for playback of PCM (WAV) files.
- · Some files may not play correctly when the playback speed is changed.

Playing back specific sections of a track

You can specify and quickly locate a desired section of a track in three ways. This can be useful if you want to skip unimportant parts during playback or to repeat playback of a particular portion of the file. The recorder features three special playback functions: Skip playback (locating the playback point immediately), A-B Repeat playback (playing a specified part repeatedly), and Phrase playback (moving the playback point back by a specified number of seconds).

Using the Skip playback function

You can skip forward or back by a specific amount of time. This function is useful when you want to locate a desired playback point immediately.

During playback, press the [◄◄]/[▶►I] buttons.

Playback will skip ahead or back by the specified amount of time.

Note:

- The playback point will not skip to the next or previous folder. The function is effective only within one folder.
- · If the distance between the current point and an index mark or the beginning of the next file is shorter than the distance between the current point and the skip point, the recorder will locate the index mark or the beginning of the next file.

■ Setting the amount of time for Skip playback

 Press the [MENU/FOLDER] button while the main screen is displayed, select [PLAY MENU] → [SKIP PLAY], then press the [REC] button.



2. Press the [PLAY]/[STOP], [I◄◄]/[▶▶1] buttons to select a skip time value of "10 sec," "30 sec," "1 min," "5 min" or "15 min," then press the [REC] button.



3. Press the [MENU/FOLDER] button twice.

The unit displays the main screen.



You can set the skip time value by displaying the menu screen during playback.

Using the A-B Repeat playback function

During playback, you can specify a part of a file that you want to play repeatedly (from point A to point B).

1. During playback, press the [REC] button at the desired start point (A) for A-B Repeat playback.

The start point indicator lights up.



Start point indicator

Press the [REC] button at the desired end point (B) for A-B Repeat playback.

The end point is set, and the unit starts playing back the part between A and B repeatedly until you cancel the A-B Repeat function.

To cancel A-B Repeat playback, do one of the following operations during A-B Repeat playback:

- Press the [REC] button again.
- Press the [STOP] button.
- Press the [◄◄]/[►►] buttons.



A-B Repeat indicator

Note:

- · If the duration between point A and B is too short, you will be unable to set up A-B Repeat playback.
- · If you set point A, but not point B, the end of the file will automatically become point B.
- · The unit will not perform A-B Repeat playback across files.

Using the Phrase playback function

You can move back the playback point in the currently-playing file by a specified number of seconds. This function is useful if you want to listen again to a short phrase in a piece of music or an important piece of audio.

During playback, press the [PLAY] button.

The playback point will move back by the specified number of seconds and playback will resume.

Note

- · During A-B Repeat playback, the Phrase playback function remains effective between points A and B.
- · If the specified number of seconds exceeds the time between the current playback point and the beginning of the file, the unit will play back from the beginning of the file.
- The playback point can be moved back to the beginning of the file, but no further. It cannot jump into the previous file.

■ Setting the amount of time for Phrase playback.

 Press the [MENU/FOLDER] button while the main screen is displayed, select [PLAY MENU] → [PHRASE PLAY], then press the [REC] button.



2. Press the [PLAY]/[STOP] buttons to select the amount of time to move back the playback point in a range of 1 sec to 5 sec, in 1 sec(second) steps, then press the [REC] button.



3. Press the [MENU/FOLDER] button twice. The recorder displays the main screen.



You can specify the amount of time for Phrase playback by displaying the menu screen during playback.

Playing back the same track repeatedly

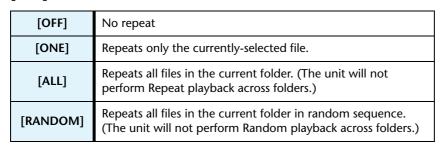
You can play back the same track repeatedly (Repeat playback). The Repeat playback function features various Repeat playback modes, such as playing back the same file repeatedly, playing files in a folder in normal or random sequence, etc.

■ Setting the Repeat playback mode

 Press the [MENU/FOLDER] button while the main screen is displayed, select [PLAY MENU] → [REPEAT], then press the [REC] button.



2. Press the [PLAY]/[STOP] buttons to select a Repeat playback mode from [OFF], [ONE], [ALL] or [RANDOM], then press the [REC] button.





3. Press the [MENU/FOLDER] button twice.

The unit displays the main screen.

The Repeat mode indicator will appear in the lower right corner of the screen.

1 t ⊃	ONE
t	ALL
RND	RANDOM

4. Press the [PLAY] button.

The unit will perform the selected Repeat playback.

To cancel Repeat playback, select [OFF] in step 2.

∜Hint:

You can select a Repeat playback mode by displaying the menu screen during playback.

Locating a playback position by time (Time Search function)

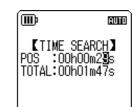
You can play back a file from a point specified by the time position.

- Press the [MENU/FOLDER] button while the main screen is displayed, select [PLAY MENU] → [TIME SEARCH], then press the [REC] button.
- Press the [I◄◄]/[►►I] buttons to select each digit of hour (h), minute (m), or second (s).

Press the [PLAY]/[STOP] buttons repeatedly to set the value.

POS: Time position

TOTAL: Duration of the entire file



3. Press the [REC] button.

The file will play from the specified time position.

Note:

You can use the Time Search function only for the currently-selected file.

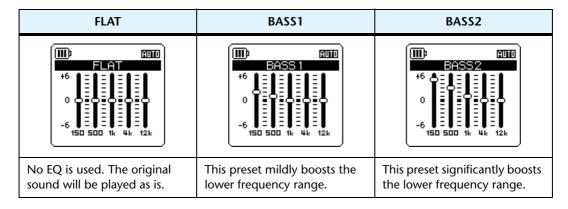
Setting the sound EQ (equalizer)

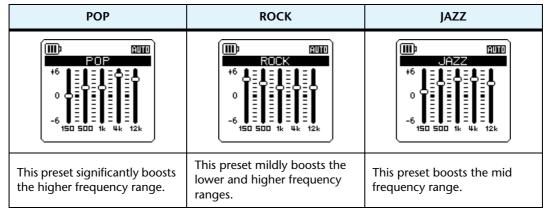
You can set the sound EQ to adjust the overall tone of music. The function is available only when you play back files **through the headphones**.

About the sound EQ options

The recorder offers six sound EQ presets and one USER EQ option (which enables you to cut and boost five bands individually to suit your preference). The sound EQ presets include FLAT, BASS1, BASS2, POP, ROCK and JAZZ.

Features of each sound EQ preset





Note: _

You cannot change the parameters of the six sound EQ presets. Use the USER EQ option if you wish to adjust the sound EQ to suit your preference.

Selecting a sound EQ option

 Press the [MENU/FOLDER] button while the main screen is displayed, select [PLAY MENU] → [SOUND EQ], then press the [REC] button.



2. Press the [►►]/[►►] buttons to select the desired sound EQ option.

Select from six sound EQ presets and one USER EQ option (which enables you to customize the EQ settings).



ŸHint:

For information on how to customize the USER EQ option, refer to "Customizing the sound EQ option" on page 33.

3. Press the [REC] button.

The selection of the sound EQ option is confirmed.

4. Press the [MENU/FOLDER] button twice.

The recorder displays the main screen, including the **EQ** indicator.



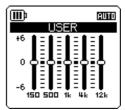
You can select a sound EQ option by displaying the menu screen during playback.

Customizing the sound EQ option

The USER sound EQ option enables you to adjust the level of five EQ bands.

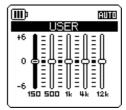
1. Select "USER" as the sound EQ.

Refer to steps 1 and 2 in the "Selecting a sound EQ option" section on page 32.



2. Press the [STOP] button.

The 150Hz band will be selected and displayed as a black bar.



3. Press the [◄◄]/[▶▶] buttons to select the frequency band to cut or boost. The selected frequency band will be displayed as a black bar.

4. Press the [PLAY]/[STOP] buttons to boost or cut the level of the selected frequency band.

You can boost the level by as much as +6dB or cut the level by as much as -6dB in 1dB steps. The larger value will raise the playback level and boost the frequency band.

Note:

- · To adjust the level of other frequency bands, repeat steps 3 and 4.
- · To cancel the operation, press the [MENU/FOLDER] button.
- 5. Press the [REC] button.

The USER sound EQ option is now customized.

6. Press the [MENU/FOLDER] button twice.

The recorder displays the main screen, including the **EQ** indicator.

6 Using the Tuner Function

The recorder features a Tuner function that enables you to tune your musical instruments and calibrate the standard pitch (frequency).

Tuning your musical instrument

1. Point the built-in stereo microphone toward the musical instrument you want t	o tune
--	--------

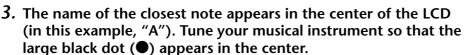
Note:

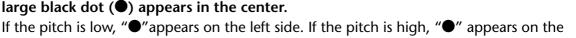
To tune an electric guitar or synthesizer, connect the instrument to the recorder's [MIC/LINE] socket.

For information on how to use the [MIC/LINE] socket, please refer to "Recording from an external audio device (such as a CD player)" on page 11.

 Press the [MENU/FOLDER] button while the main screen is displayed, select [TUNER] → [START], then press the [REC] button.

The unit starts analyzing the pitch.





(IIII)

0000

AUTO

[TUNER]

Α

440Hz

When the instrument is tuned correctly, a white triangle indicator (\triangleright) on each side of the screen turns black (\triangleright) and the LED indicator lights up.

4. Press the [STOP] button to stop tuning.

Note:

right side.

- · After you start using the Tuning function, if you do not operate the recorder for a duration specified via the Auto Power Off function (see page 56), the Tuning function will automatically stop and power to the unit will turn off.
- · While you use the Tuning function, the backlight remains on (unless the backlight setting is "off").

Calibrating the standard pitch

You can calibrate the standard pitch in the range of 430 Hz to 450 Hz in 1 Hz steps. When you purchase the recorder, the standard pitch is set to 440 Hz.

- Press the [MENU/FOLDER] button while the main screen is displayed, select [TUNER] → [CALIBRATE], then press the [REC] button.
- 2. Press the [PLAY]/[STOP] buttons repeatedly to set the standard pitch in the range of 430 Hz to 450 Hz, then press the [REC] button.
- (CALIB)

3. Press the [MENU/FOLDER] button twice. The unit displays the main screen.

7 Using the Metronome Function

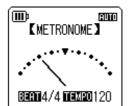
The recorder features a built-in metronome. The Metronome function enables you to play the metronome, change its tempo and/or beat, and set the metronome so that it will play during recording.

Using the metronome

 Press the [MENU/FOLDER] button while the main screen is displayed, select [METRONOME] → [START], then press the [REC] button.

The metronome sound will be output from either the speaker or headphones.

- 2. Press the [STOP] button to stop the metronome.
- **3.** Press the [MENU/FOLDER] button twice. The unit displays the main screen.

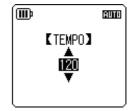


Setting the metronome tempo (speed)

 Press the [MENU/FOLDER] button while the main screen is displayed, select [METRONOME] → [TEMPO], then press the [REC] button.



2. Press the [PLAY]/[STOP] buttons repeatedly to set the tempo in the range of 30 to 250 bpm, then press the [REC] button.



3. Press the [MENU/FOLDER] button twice.

The unit displays the main screen.

Note:

You can also adjust the metronome tempo by pressing the $[\blacktriangleleft]/[\blacktriangleright \blacktriangleright]$ buttons while playing the metronome.

Setting the metronome beats

 Press the [MENU/FOLDER] button while the main screen is displayed, select [METRONOME] → [BEAT], then press the [REC] button.



2. Press the [PLAY]/[STOP] buttons repeatedly to set the beat in the range of 0/4 to 8/4, then press the [REC] button.



3. Press the [MENU/FOLDER] button twice.

The unit displays the main screen.

Playing the metronome during recording

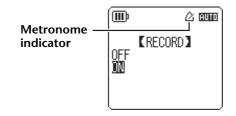
You can record your performance while listening to the metronome via the headphones (the metronome sound will not be output from the speaker). This feature is useful when you are practicing your musical instrument.

1. Press the [MENU/FOLDER] button while the main screen is displayed, select [METRONOME] \rightarrow [RECORD], then press the [REC] button.



2. Press the [PLAY]/[STOP] buttons to select [ON], then press the [REC] button.

The metronome is enabled during recording, and the alpha indicator appears in the upper right of the LCD.



3. Press the [MENU/FOLDER] button twice.

The unit displays the main screen. You can now listen to the metronome through the headphones during recording. The metronome sound will not be recorded.

8 Editing Files

Dividing files

You can divide any file recorded and stored in the MIC (A–D) folders or LINE (L) folder into two pieces. This feature enables you to remove an unwanted part of a recording while retaining the part you wish to keep.

MIMPORTANT

Once a file is divided in two, the pieces cannot be rejoined. Be sure to backup important files on a computer or other device before you divide any file.

- 1. While the main screen is displayed, press and hold down the [MENU/FOLDER] button for at least two (2) seconds.
- 2. Press the [PLAY]/[STOP], [►►] buttons to select a folder that contains the file you want to divide, then press the [REC] button.
- 3. Press the [◄◄]/[▶►] buttons to select the desired file number, then press the [PLAY] button.

The recorder starts playing back the file.

- **4.** Press the [STOP] button at the point at which you wish to divide the file. The recorder stops playback.
- Press the [MENU/FOLDER] button while the main screen is displayed, press the [PLAY]/[STOP] buttons to select [EDIT MENU] → [DIVIDE], then press the [REC] button.



Press the [◄◄]/[►►] buttons to select [YES], then press the [REC] button.

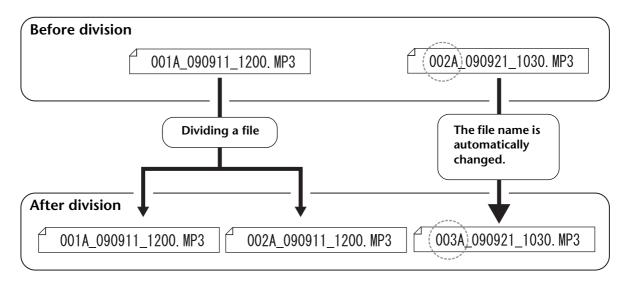
The recorder displays the message "DIVIDING...," then "DIVIDE COMPLETED!" and the file division operation is complete. When a file is divided, the number of files in the folder increases by one.



Note:

- · You can divide only MP3 or WAV files recorded on the unit.
- If the file length is too short, the unit displays the message "CANNOT DIVIDE! REC TIME TOO SHORT!" and the file will not be divided. This function is not effective on files in the MUSIC (M) and Recycle Bin folders.
- · If you divide a file that contains index marks (see page 40), the index marks will be deleted.

■ File names after division



For example, if you divide a file named "001A_090911_1200.MP3", a new file named "002A_090911_1200.MP3" will be created. If the new file has the same name as a file that already exists in the folder, the new file will keep the name, and the existing file will be renamed automatically.

Note:

The recorder does not display the file number or the folder type (see page 66). You can view them only via a connected computer.

■ Overlap time and minimum file length required for division

The two pieces created by a file division overlap each other at the division point as shown in the table below. To be divided successfully, a file must be twice the overlap time or longer in duration.

Recording mode		Overlap time	Required length	
	32kbps	About 8 seconds	About 16 seconds or longer	
	64kbps	About 4 seconds	About 8 seconds or longer	
MP3	128kbps	About 2 seconds	About 4 seconds or longer	
	192kbps	About 1 second or shorter	About 2 seconds or longer	
	320kbps			
	44.1kHz			
РСМ	48kHz		About 2 seconds of longer	
i Civi	88.2kHz			
	96kHz			

Using the fade in and fade out effects

The recorder enables you to apply fade in and fade out effects to the files recorded in PCM (WAV) format. The fade in effect raises gradually the volume level of the beginning of the file. The fade out effect reduces gradually the volume level of the end of the file.

MIMPORTANT

Once you apply the fade in/fade out effects, you cannot remove the effect. Be sure to backup important files on a computer or other external device before applying effects.

Applying the fade in effect

- 1. While the main screen is displayed, press and hold down the [MENU/FOLDER] button for at least two (2) seconds.
- 2. Press the [PLAY]/[STOP], [◄◄]/[►►I] buttons to select a folder that contains the file you want to apply the fade in effect, then press the [REC] button.
- 3. Press the [◄◄]/[▶►I] buttons to select the desired file number.
- 4. Press the [MENU/FOLDER] button while the main screen is displayed, press the [PLAY]/[STOP] buttons to select [EDIT MENU] → [FADE IN], then press the [REC] button.



5. Press the [PLAY]/[STOP] buttons to select the amount of time to apply fade in effect, then press the [REC] button.

You can specify the amount of time in a range of 1 sec to 8 sec (second).

The unit displays the message "FADE IN EXECUTING...".



Note:

If you have selected any file other than a PCM file recorded on the unit, or if you have selected a file of four seconds or less, the unit will display the message "CANNOT FADE IN! FILE TOO SHORT!".

6. When the unit displays [COMPLETED], press the [PLAY]/[STOP] buttons to select [AUDITION], then press the [REC] button.

The unit will play back the file with the fade in effect.

[AUDITION]	You can audition up to about 10 seconds at the beginning of the file with the fade in effect.
[SAVE] (Overwrite)	The file with the fade in effect will be saved. You cannot revert the file to its original status. (That is, you cannot undo the fade in effect.)
[CANCEL]	The fade in effect will not be applied.



7. If you are satisfied with the file after auditioning and wish to save it, press the [PLAY]/[STOP] buttons to select [SAVE], then press the [REC] button.

The file with the fade in effect will overwrite the original file.

If you do not wish to overwrite the original file, select [CANCEL], then press the [REC] button.

Note:

If the internal memory (or a microSD card) does not have sufficient free space, you will be unable to apply the fade in and out effects to the file.

Applying the fade out effect

The basic procedure is the same as that for the fade in effect. Please refer to the "Applying the fade in effect" section on page 39. Please note that you must select [FADE OUT] instead of [FADE IN] in step 4 to apply the fade out effect.



Inserting and deleting index marks

Inserting index marks in a file enables you to locate the playback point immediately during the playback operation. You can insert index marks only in the files in the MIC (A–D) folders.

Inserting index marks

During recording or playback, press the [ALC/DELETE] button (located on the side panel) at the point where you want to insert an index mark.

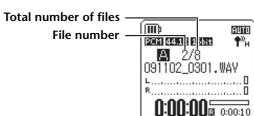
The unit displays the message "INDEX SETTING..." and the index mark is inserted.

Note:

- · Recording or playback continues after you insert an index mark. Repeat the same steps to continue inserting more index marks in the file, if necessary.
- · You can insert up to 36 index marks in each file. If you try to insert more than 36 index marks, the unit displays "INDEX FULL!" and no more index marks will be recorded.
- · If you divide a file that contains index marks, the index marks will be deleted.

Deleting index marks

- 1. While the main screen is displayed, press and hold down the [MENU/FOLDER] button for at least two (2) seconds.
- 2. Press the [PLAY]/[STOP], [I◄◄]/[►►I] buttons to select a folder that contains a file from which you want to delete index marks, then press the [REC] button.
- 3. Press the [◄◄]/[▶►] buttons to select the file from which you want to delete index marks, and then press the [ALC/DELETE] button (located on the side panel) for at least two (2) seconds..



4. Press the [PLAY]/[STOP] buttons to select [INDEX], then press the [REC] button.



Press the [I◄◄]/[►►I] buttons to select [DELETE], then press the [REC] button.

The unit displays the message "DELETING..." and the index marks are deleted.



Note: _

- · Deleting index marks will not delete the audio recording.
- · You cannot delete index marks individually. All index marks in a file will be deleted.

Using the Playlist function (available only for the MUSIC folder)

The recorder offers five Playlist files P1–5 (PLIST1-5.M3U). You can play back your favorite songs (that are stored in the MUSIC (M) folder) in a preferred sequence by assigning the songs to a Playlist.

Before using the Playlist function, you must transfer audio (track) files to the MUSIC (M) folder using the computer.

- Connecting the recorder to your computer (page 59)
- About files and folders (page 61)

Assigning the folder and files to a Playlist (P1-5)

- 1. While the main screen is displayed, press and hold down the [MENU/FOLDER] button for at least two (2) seconds, press the [PLAY]/[STOP], [I◄◄]/[►►I] buttons to select the [M] folder, then press the [REC] button.
- 2. Press the [PLAY]/[STOP], [◄◄]/[►►] buttons to highlight the file or folder which you wish to assign to a Playlist, then press the [REC] button for at least two (2) seconds.
- 3. Press the [I◄◄]/[▶►I] buttons to select a target Playlist (PLAYLIST1-5), then press the [REC] button.

The folder or the files will be assigned to the selected Playlist.

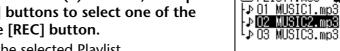
Note:

- · You can assign up to 99 files to each Playlist.
- · You cannot delete Playlists (P1-5).
- Do not edit Playlists (P1–5) using the computer.



Changing the playback sequence in a Playlist (P1-5)

 While the main screen is displayed, press and hold down the [MENU/FOLDER] button for at least two (2) seconds, then press the [PLAY]/[STOP], [I◄◄]/[►►I] buttons to select one of the folders [P1]–[P5], then press the [REC] button.



The unit displays the track list of the selected Playlist.

- 2. Press the [PLAY]/[STOP] buttons to select a file whose list position you want to change, then press the [REC] button for at least two (2) seconds.
- 3. Press the [PLAY]/[STOP] buttons to select [ORDER], then press the [REC] button.



⊞ PLIST1.M3U

4. Press the [PLAY]/[STOP] buttons to move the selected file to the preferred position in the playback list.

The indicator of the selected file changes to " \Rightarrow ".



5. Press the [REC] button.

The order of the files in the Playlist is changed.

Removing a file from a Playlist (P1-5)

You can remove a file from a Playlist. Removing a file from a Playlist will not delete the original file.

 While the main screen is displayed, press and hold down the [MENU/FOLDER] button for at least two (2) seconds, then press the [PLAY]/[STOP], [I◄◄]/[►►I] buttons to select one of the folders [P1]–[P5], then press the [REC] button.



The unit displays the track list of the selected Playlist.

- 2. Press the [PLAY]/[STOP] buttons to highlight a file you wish to remove from the Playlist, then press the [REC] button for at least two (2) seconds.
- 3. Press the [PLAY]/[STOP] buttons to select [DELETE], then press the [REC] button.



4. Press the [I◄◄]/[▶►I] buttons to select [DELETE], then press the [REC] button. The selected file will be removed from the Playlist.

Removing all files from a Playlist (P1-5)

You can remove all files from a Playlist. Removing all files from a Playlist will not delete the original files.

- While the main screen is displayed, press and hold down the [MENU/FOLDER] button for at least two (2) seconds, then press the [PLAY]/[STOP], [I◄◄]/[►►I] buttons to select one of the folders [P1]–[P5], then press the [REC] button. The unit displays the track list of the selected Playlist.
- 2. Press the [REC] button for at least two (2) seconds.
- 3. Press the [PLAY]/[STOP] buttons to select [DELETE PLAYLIST], then press the [REC] button.



Press the [◄◄]/[►►I] buttons to select [DELETE], then press the [REC] button.

All files are removed from the Playlist, and the unit displays "No File" on the LCD.



9 Deleting

Managing the Recycle Bin

If you delete a file on the recorder while the Recycle Bin function is active, the file will be moved to the Recycle Bin ($\overline{\mathbb{W}}$) folder temporarily so that you can restore it later if necessary. If you delete a file or folder on the recorder while the Recycle Bin function is turned off, the file will be deleted completely and you will be unable to restore it. It is recommended that you turn the Recycle Bin function on to avoid accidental erasure.

When the Recycle Bin is full, you must empty it to increase the remaining recording time. Otherwise, if the available memory capacity is insufficient, you may be unable to record. Empty the Recycle Bin regularly.

Note:			

The Recycle Bin folder can accommodate up to 199 files. If the Recycle Bin folder is full and you cannot move any more files to the Recycle Bin, move some files from the Recycle Bin folder to the original folder (see page 46) or empty the Recycle Bin folder (see page 47).

Activating the Recycle Bin function

Press the [MENU/FOLDER] button while the main screen is displayed, press the [PLAY]/[STOP] buttons to select [COMMON MENU] → [RECYCLE BIN] → [ON], then press the [REC] button. The Recycle Bin function is turned on.



2. Press the [MENU/FOLDER] button twice to go back to the main screen.

Note: _

- · You can move files to the Recycle Bin folder only from the MIC (A–D) folders and LINE (L) folder. You cannot move files from the MUSIC (M) folder to the Recycle Bin folder, regardless of whether the Recycle Bin function is on or off. These files will be deleted completely by the delete operation.
- If you initialize the internal memory or a microSD card, all files on the internal memory or microSD card, respectively, will be deleted (and will not be moved to the Recycle Bin folder). All files previously moved from the card to the Recycle Bin folder will also be deleted.
- · If the Recycle Bin function is active, deleting the files will not increase the available recording time.

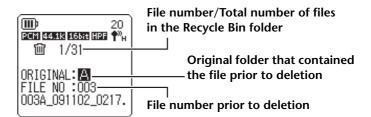
Displaying the Recycle Bin folder

While the main screen is displayed, press and hold down the [MENU/FOLDER] button for at least two (2) seconds, then press the [PLAY]/[STOP], [►►] buttons to select the Recycle Bin (iii) folder, and then press the [REC] button.

• The Recycle Bin folder contains no files.



• The Recycle Bin folder contains files.



The files moved into the Recycle Bin will be renamed automatically (see page 66).

Playing back a file in the Recycle Bin folder

- 1. While the main screen is displayed, press and hold down the [MENU/FOLDER] button for at least two (2) seconds.
- 2. Press the [PLAY]/[STOP], [◄◄]/[▶▶|] buttons to select the Recycle Bin (🗓), then press the [REC] button.
- Press the [I◄◄]/[►►I] buttons to select the desired file to play, then press the [PLAY] button.
 The selected file will play.



Restoring a file from the Recycle Bin folder

- 1. While the main screen is displayed, press and hold down the [MENU/FOLDER] button for at least two (2) seconds.
- 2. Press the [PLAY]/[STOP], [◄◄]/[▶▶] buttons to select the Recycle Bin (🗓), then press the [REC] button.
- 3. Press the [I◄◄]/[►►I] buttons to select the desired file to restore, then press and hold down the [ALC/DELETE] button located on the side panel for at least two (2) seconds.



4. Press the [PLAY]/[STOP] buttons to select [RESTORE 1 FILE], then press the [REC] button.



5. Press the [I◄◄]/[▶►I] buttons to select [RESTORE], then press the [REC] button.

The recorder will display the message "RESTORING...", then "FILE RESTORED," and the file will move back to its original folder.



Note: _

- A file restored from the Recycle Bin will be renamed automatically and added to the end of the file list in the original folder (see page 66).
- · If the recorder displays the message "FOLDER FULL!," the original folder contains the maximum number of files allowed. In this case, delete some files to clear some space.
- 6. Press the [REC] button again.

The recorder displays the main screen.

Emptying the Recycle Bin folder

A Caution

Emptying the Recycle Bin will permanently delete all files in the Recycle Bin and the same files from the internal memory or microSD card. You will be unable to restore those files. Be sure to backup important files on a computer or other external device before emptying the Recycle Bin.

Also, before emptying the Recycle Bin, make sure that the correct target (the internal memory or microSD card) has been selected.

- 1. While the main screen is displayed, press and hold down the [MENU/FOLDER] button for at least two (2) seconds.
- 2. Press the [PLAY]/[STOP], [I◄◄]/[▶►] buttons to select the Recycle Bin (🗓), then press the [REC] button.
- 3. Press and hold down the [ALC/DELETE] button located on the side panel for at least two (2) seconds.
- 4. Press the [PLAY]/[STOP] buttons to select [EMPTY], then press the [REC] button.



Press the [I◄◄]/[►►I] buttons to select [EMPTY], then press the [REC] button.



The recorder displays the message "EMPTYING...", then "NO DATA!", and the Recycle Bin is emptied.



Note:

- · If the Recycle Bin folder contains many files, the recorder's operation may slow down. Empty the Recycle Bin regularly.
- · You cannot delete individual files from the Recycle Bin.

Deleting a selected file

You can delete a single file from a folder.

⚠ Caution –

- If you delete a file while the Recycle Bin function is turned off (see page 44), you will be unable to restore it. Be sure to check the content of a file before you delete it.
- Before you proceed, make sure that the battery power is sufficient.
- 1. While the main screen is displayed, press and hold down the [MENU/FOLDER] button for at least two (2) seconds.
- 2. Press the [PLAY]/[STOP], [◄◄]/[▶▶] buttons to select a folder from which to delete a file, then press the [REC] button.
- 3. Press the [◄◄]/[▶▶] buttons to select a file to delete, then press and hold down the [ALC/DELETE] button located on the side panel for at least two (2) seconds.
- 4. Press the [PLAY]/[STOP] buttons to select [FILE], then press the [REC] button.



5. When the [DELETE FILE] screen is displayed, press the [◄◄]/ [►►I] buttons to select [DELETE], then press the [REC] button. The unit displays the message "DELETING..." and the file is deleted.



Note:

- If you decide not to execute the delete operation, select [CANCEL], then press the [REC] button.
- · You cannot cancel the delete operation if the recorder has already started the operation.

If the Recycle Bin function is active, the file will move to the Recycle Bin. When the recorder displays "MOVED TO RECYCLE BIN," select [OK], then press the [REC] button.



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If the recorder displays the message "RECYCLE BIN FULL!," the Recycle Bin folder is full. Empty the Recycle Bin, then delete the file.

Deleting all files from a folder

You can delete all files from a selected folder.

⚠ Caution –

- If you delete all files from the selected folder while the Recycle Bin function is turned off (see page 44), you will be unable to restore them. Be sure to check the contents of a folder before you delete the files.
- Before you proceed, make sure that the battery power is sufficient.

The procedure is similar to that for deleting a file. Please refer to the "Deleting a selected file" section on page 48. Please note that you must select [FOLDER] instead of [FILE] in step 4 to delete all files from the folder.

Note

You cannot delete any sub-folders in the MUSIC (M) folder (see pages 63 and 65) by using this function. To delete these sub-folders, connect the recorder to a computer and delete the sub-folders by using the computer.

Formatting the internal memory/microSD card (Deleting all data)

Formatting the internal memory or microSD card will delete all files on the internal memory or microSD card, respectively, regardless of whether the Recycle Bin function is turned on or off.

You must also format a commercially available microSD card before you use the card for the first time.

⚠ Caution -

- If you delete files from the internal memory or microSD card, you will be unable to restore those files. Be sure to check the file contents before you delete a file.
- Be sure to backup important files on a computer or other external device.
- If you initialize the internal memory, the MANUAL folder will be erased in its entirety. If necessary, download the latest manuals in PDF format from the following website:
 - http://www.yamaha.co.jp/manual/
- Before you proceed, make sure that the battery power is sufficient.
- Press the [MENU/FOLDER] button while the main screen is displayed, press the [PLAY]/[STOP] buttons to select [COMMON MENU] → [FORMAT], then press the [REC] button.



2. Press the [PLAY]/[STOP] buttons to select [INTERNAL MEMORY] or [microSD CARD], then press the [REC] button.



3. Press the [◄◄]/[▶▶] buttons to select [FORMAT], then press the [REC] button. The unit displays the message "FORMATTING...", then "FORMAT COMPLETED!", and all data is deleted from the internal memory (or the microSD card).

Note:

- If you decide not to execute the operation, select [CANCEL], then press the [REC] button.
- · You cannot cancel the formatting operation if the recorder has already started the operation.
- 4. Press the [MENU/FOLDER] button twice.

The recorder displays the main screen.

10 Using the Timer Function

Programming a timer

The Timer function enables you to set the recorder so that it will start a microphone recording or play a file or an alarm at a specified time. Before you program a timer, make sure that the date and time on the unit have been set correctly (see page 55).

 Press the [MENU/FOLDER] button while the main screen is displayed, press the [PLAY]/[STOP] buttons to select [COMMON MENU] → [TIMER & ALARM], then press the [REC] button.



2. Press the [PLAY]/[STOP] buttons to select a setting item, then press the [REC] button.

The unit displays the setting screen for the selected item. For details about each setting item, see pages 51–53.



■ SET

Press the [PLAY]/[STOP] buttons to highlight [ON] or [OFF], then press the [REC] button.

OFF: The Timer function is disabled.

ON: The Timer function is enabled.



■ REPEAT

Press the [PLAY]/[STOP] buttons to highlight [ONCE], [DAILY] or [WEEKLY], then press the [REC] button.

ONCE: The recorder will automatically record or play back once at

the programmed time.

DAILY: The recorder will automatically record or play back every

day at the programmed time.

WEEKLY: The recorder will automatically record or play back at the programmed time on the programmed day of the week.



■ Setting the WEEKLY timer (Available only when [WEEKLY] REPEAT is selected)

Press the [PLAY]/[STOP], [I◄◄]/[►►I] buttons to highlight a day
of the week, then press the [REC] button to check the
corresponding box.

SUN: Sunday; **MON:** Monday; **TUE:** Tuesday; **WED:** Wednesday; **THU:** Thursday; **FRI:** Friday; **SAT:** Saturday; **STORE:** Confirm



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You can select multiple days of the week.

Press the [PLAY]/[STOP], [I◄◄]/[►►I] buttons to highlight [STORE] (Confirm), then press the [REC] button.

■ Setting the START time

Press the [◄◄]/[►►] buttons to highlight the hour or minute digit, use the [PLAY]/[STOP] buttons to set the value, then press the [REC] button.



■ Setting the END time

Press the [◄◄]/[►►] buttons to highlight the hour or minute digit, use the [PLAY]/[STOP] buttons to set the value, then press the [REC] button.



Note:

You can set up to 12 hours for the programmed time duration from start to end time.

■ Setting the ACTION

Press the [PLAY]/[STOP] buttons to select [PLAY] or [RECORD], then press the [REC] button.

PLAY: The unit starts playback at the programmed time. **RECORD:** The unit starts recording at the programmed time.



■ Setting the playback SOURCE (Available only when [PLAY] is selected for ACTION)

1. Press the [PLAY]/[STOP] buttons to select [BEEP] (to play a beep sound) or [FILE] (to play a file).

BEEP: The unit plays a beep sound.

FILE: The selected file will play.

When you select "FILE," the unit displays the list screen. Select a file to play (excluding files in Playlists or in the Recycle Bin).

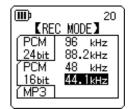


Note:

To toggle between the internal memory and microSD card, press and hold down the [MENU/FOLDER] button for at least two (2) seconds while the list screen is displayed.

- 2. Press the [PLAY]/[STOP], [◄◄]/[►►] buttons to select [STORE] (Confirm), then press the [REC] button.
- Setting the REC MODE (sound quality) (Available only when [RECORD] is selected for ACTION)

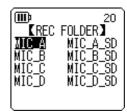
Press the [PLAY]/[STOP], [◄◄]/[►►] buttons to select a Recording mode option, then press the [REC] button.



■ Setting the recording destination FOLDER (Available only when [RECORD] is selected for ACTION)

Press the [PLAY]/[STOP], $[\bowtie 4]/[\bowtie 1]$ buttons to select a folder to which to record a file, then press the [REC] button.

If you wish to record to the card folder MIC_A_SD-MIC_D_SD, you must first insert a microSD card in the recorder.



■ Completing the timer settings

1. Press the [PLAY]/[STOP] buttons to select [STORE], then press the [REC] button.

The programmed timer settings are confirmed, and the unit displays the [COMMON MENU] screen.



The unit displays the main screen.



Note:

- · Initializing the calendar (date and time) will reset all timer settings to "OFF."
- The timer recording (or playback) may fail under the following circumstances:
 - The internal memory (or microSD card) does not have sufficient memory space for the specified duration of the timer recording.
 - The file (for playback) or the folder (for recording) in the microSD card has been specified, but the microSD card has not been inserted in the recorder.
 - You attempted to program a timer recording that would cause the maximum number of recordable files (199) to be exceeded.
 - The recorder is connected to the computer, and is unable to start the timer operation at the programmed time.
 - The battery is exhausted or the power to the unit turned off during the timer recording (or playback).
- If the timer fails for some reason, one of the following will occur:
 If a REPEAT [ONCE] timer recording fails, the timer will be turned off.
 If a REPEAT [DAILY] or [WEEKLY] timer recording fails, the timer will remain on.

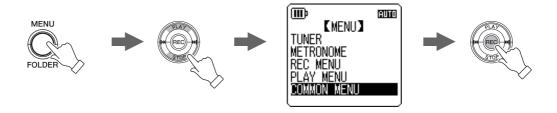
11 Preference Settings

You can set the preference settings to make it easier to use the recorder in various environments and circumstances.

Setting the current date and time

After you set the date and time, the recorder will automatically record the time and date of recording with each file. Since the name of recorded files includes the recording date and time, Yamaha recommends that you set the date and time accurately.

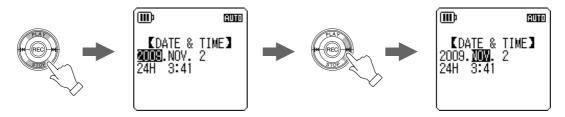
1. Press the [MENU/FOLDER] button while the main screen is displayed, press the [PLAY]/[STOP] buttons to select [COMMON MENU], then press the [REC] button.



2. Press the [PLAY]/[STOP] buttons to select [DATE & TIME], then press the [REC] button.



3. Press the [PLAY]/[STOP] buttons to select the year, then press the $[\blacktriangleright \blacktriangleright 1]$ button.



- 4. In the same way, select the month, day, 24/12-hour indication (24H or AM/PM), hour and minute, then press the [REC] button.
- **5.** Press the [MENU/FOLDER] button twice. The recorder displays the main screen.

Setting the beep sound

You can set the recorder so that it will make a beep sound when you operate the buttons or if you make an operational error.

 Press the [MENU/FOLDER] button while the main screen is displayed, press the [PLAY]/[STOP] buttons to select [COMMON MENU] → [BEEP SOUND], then press the [REC] button.



2. Press the [PLAY]/[STOP] buttons to select [ON], then press the [REC] button.



3. Press the [PLAY]/[STOP] buttons to select the desired volume option, then press the [REC] button.

To cancel the beep sound, select [OFF] in step 2.

HIGH: High volumeMIDDLE: Medium volumeLOW: Low volume



Activating the Auto Power Off function

If this function is turned on, and you leave the recorder turned on but unused for a specified duration, the recorder will automatically turn off (except during recording, VAS recording standby mode, playback or metronome operation).

 Press the [MENU/FOLDER] button while the main screen is displayed, press the [PLAY]/[STOP] buttons to select [COMMON MENU] → [AUTO OFF], then press the [REC] button.



Press the [I◄◄]/[►►] buttons to select the desired time to function the Auto Power Off, then press the [REC] button.
 0 (OFF)-15 (15 min.)



You can specify the time in 1 minute steps.

To cancel the Auto Power Off function, specify [0](OFF).

Setting the Backlight function

When the Backlight function is turned on, the LCD backlight lights up each time you press a button or switch on the unit.

 Press the [MENU/FOLDER] button while the main screen is displayed, press the [PLAY]/[STOP] buttons to select [COMMON MENU] → [BACKLIGHT], then press the [REC] button.



2. Press the [PLAY]/[STOP] buttons to select the desired time to light up the backlight, then press the [REC] button.

OFF: The backlight will not light up.

5 sec: The backlight lights up for five seconds.15 sec: The backlight lights up for 15 seconds.ALWAYS ON: The backlight remains lit all the time.



Note:

If the battery power is insufficient, the backlight will not light up.

Adjusting the LCD contrast

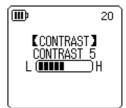
You can adjust the LCD contrast on a scale of ten (10).

 Press the [MENU/FOLDER] button while the main screen is displayed, press the [PLAY]/[STOP] buttons to select [COMMON MENU] → [CONTRAST], then press the [REC] button.



2. Press the [◄◄]/[▶►I] buttons to adjust the contrast, then press the [REC] button.

L (low): 1-H (high): 10



Initializing the menu settings

Initializing the recorder settings will restore all menu settings (excluding the date and time setting) to the factory default.

Note: _

Initializing the recorder settings will not delete any data on the internal memory or microSD card. For information on initializing the internal memory or a microSD card, refer to page 50.

Procedure:

Press the [MENU/FOLDER] button while the main screen is displayed, press the [PLAY]/[STOP] buttons to select [COMMON MENU] \rightarrow [MENU RESET] \rightarrow [YES], then press the [REC] button.

If you decide not to initialize the settings, select [CANCEL].



Checking the firmware version

You can check the version number of the recorder's firmware by following the procedure below.

Procedure:

Press the [MENU/FOLDER] button while the main screen is displayed, press the [PLAY]/[STOP] buttons to select [COMMON MENU] \rightarrow [VERSION], then press the [REC] button.

The firmware version will be displayed.



12 Using the Recorder with a Computer

You can transfer audio files stored on the internal memory or microSD card to a computer by connecting the recorder to the computer. Transferred files are compatible for playback with Windows Media Player and iTunes, and can be edited using the included "Cubase AI" DAW software. You can also transfer audio files from a computer to the recorder for playback.

Computer system requirements

■ Windows

Computer: Windows-based computer with built-in USB interface OS: Windows 7, Vista, XP Professional/Home Edition

■ Macintosh

Computer: Macintosh computer with built-in USB interface OS: Mac OS X 10.4, 10.5, 10.6

Note:

- Please visit the website below for the latest information on included software and system requirements.
 - http://www.yamahasynth.com/
- The menu items and buttons displayed on your computer may not exactly match those shown in this manual, depending on the OS version of your computer. This manual uses Windows XP and Widows Media Player 11 as examples.

Connecting the recorder to your computer

- 1. Open the USB plug compartment cover, then move the USB plug slide switch toward the bottom so that the USB plug will pop out.
- 2. Make sure the recorder is turned off, and then connect the USB plug to the USB terminal on the computer.

Disconnecting the recorder from your computer

■ Windows:

- 1. Click on the taskbar at the bottom right of the Windows screen, then click [Safely remove USB Mass Storage Device].
- 2. After the computer displays the message shown on the right, remove the USB plug.



■ Macintosh:

- Drag and drop the drive icon [PRC24] or [PRC24SD] of the recorder on the desktop to the Trash Can.
- 2. After the drive icon [PRC24] or [PRC24SD] disappears from the desktop, remove the USB plug.

Troubleshooting (Windows Vista/XP)

If the recorder is not recognized by the computer, refer to the information below:

■ Windows Vista

While the recorder remains connected to the computer, follow the steps below:

- 1. From the [Start] menu, right-click [Computer] to display the pop-up menu, then select [Properties] to open the "System" window.
- 2. Click [Device Manager] to open the user account control window. In this window, click [Continue] to open the "Device Manager" window.
- 3. Expand "Disk drives" and "Universal Serial Bus controllers." "Disk drives" must include "Yamaha Pocketrak USB Device", "Yamaha Pocketrak SD USB Device", and "Universal Serial Bus controllers" must include the device name for the USB Mass Storage Device.

■ Windows XP

While the recorder remains connected to the computer, follow the steps below:

- 1. From the [Start] menu or on the desktop, right-click [My Computer] to display the pop-up menu, then select [Properties] to open the "System Property" window.
- **2.** Click the [Hardware] tab, then click [Device Manager] to open the "Device Manager" window.
- 3. Expand "Disk drives" and "Universal Serial Bus controllers." "Disk drives" must include "Yamaha Pocketrak USB Device", "Yamaha Pocketrak SD USB Device", and the "Universal Serial Bus controllers" must include the device name for the USB Mass Storage Device.

If the "Device Manager" window does not display the correct items:

Follow the steps below.

- 1. Exit (quit) all running applications.
- 2. Disconnect all external USB devices (excluding a properly working mouse and keyboard), then connect only the recorder.
- 3. If the computer features multiple USB terminals, use a different USB terminal to connect the recorder.
- 4. If the recorder is connected via a bus-powered USB hub, remove the hub, then connect the recorder directly to the computer's USB terminal.

About files and folders

From a connected computer, you can manage the recorder's files that are stored in folders.

You can also transfer audio files from the recorder to a computer to save them, or from a computer to the recorder for playback.

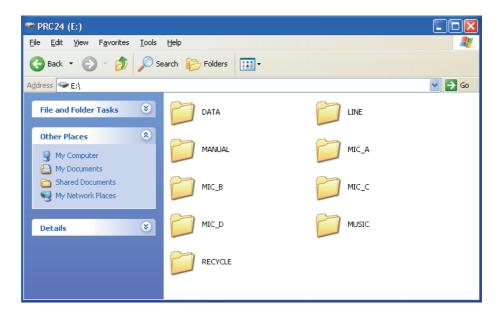
- 1. Connect the recorder to the computer.
- 2. Click to open [My Computer] from the [start] menu.



- The unit displays [PRC24] as the drive name of the recorder's internal memory.
- If you have formatted a microSD card on the recorder, the drive name of the card inserted in the unit appears as [PRC24SD]. If the microSD card inserted in the unit was not formatted on the recorder, or if a microSD card has not been inserted in the unit, the unit displays [Removable Disk] as the drive name.

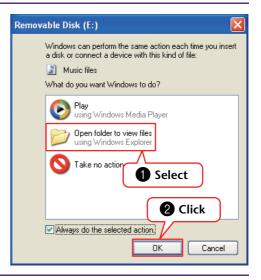
3. Double-click to open [PRC24] or [PRC24SD].

The system displays the recorder's folders.



Note

If the system displays the "What do you want Windows to do?" panel, click to select [Open folder to view files], then click [OK]. The system will display the recorder's folders.



■ Files are stored in the following folders on the internal memory or microSD card.

MIC(A–D) / MIC_(A–D)_SD
 These folders store audio files (in MP3 or WAV format) recorded by the unit.

Note:

- Do not move the files to a different folder. For example, do not move a file in the A folder to the B folder. Otherwise, you will be unable to play the file.
- · Also, please note that if you change the name of an MP3 or WAV file (originally recorded on the unit) on the computer, then move the file back to the MIC (A–D) folder, you will be unable to play the file on the unit. To play the file, first rename the file following the file naming rules, or move the file to the MUSIC (M) folder (see page 66).

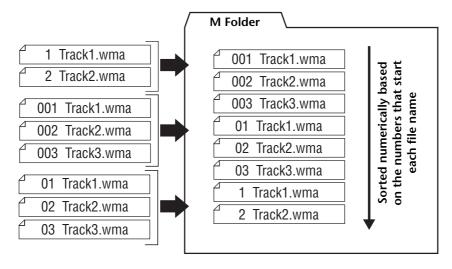
MUSIC

This folder stores music and other audio files transferred from a connected computer. To play the transferred files, the files must be in MP3 or WMA format or WAV files that were recorded on the unit. There are no naming rules that apply to these files. The recorder offers five Playlist files (PLIST1–5.M3U). You can play your favorite songs in your preferred order by creating Playlists using the files stored in the MUSIC folder (see page 41).

Note

· Files in each folder are automatically sorted numerically in ascending order based on the number that appears at the start of each file name.

If the number of digits varies (e.g., "001xxxxx", "01xxxxxx", and "1xxxxxxx"), files will be sorted in the following order: "001xxxxxx", "01xxxxxx", then "1xxxxxxx".



- · You can create sub-folders (in up to two hierarchies) inside the MUSIC folder to organize the music files by albums or musicians (see page 65).
- · Please note that if the MUSIC (M) folder contains a file with the same name as that of the audio file you are transferring from a computer, the file in the MUSIC folder will be overwritten by the one transferred from the computer.

• DATA

This folder stores data files (of MS Excel, MS Word, etc.) and enables you to use the recorder as a USB flash drive or a microSD card reader/writer (removable disk).

Note:

- · The recorder will not play any audio or music files that are placed in this folder.
- This folder will be recognized only by a connected computer. The recorder will not display this folder on its screen.

• LINE(L) / LINE(L)_SD

This folder stores files recorded from external devices via the line connection. Please note that if you change the name of an MP3 file (originally recorded on the unit) on the computer, then move the file back to the LINE (L) folder, you will be unable to play the file on the unit. To play the file, first rename the file following the file naming rules, or move the file to the MUSIC (M) folder (see page 66).

RECYCLE

This is the Recycle Bin folder. While the Recycle Bin function is active, files deleted on the recorder will move to this folder. You can restore files from the Recycle Bin folder, which can be a life saver if you delete a file accidentally.

MANUAL

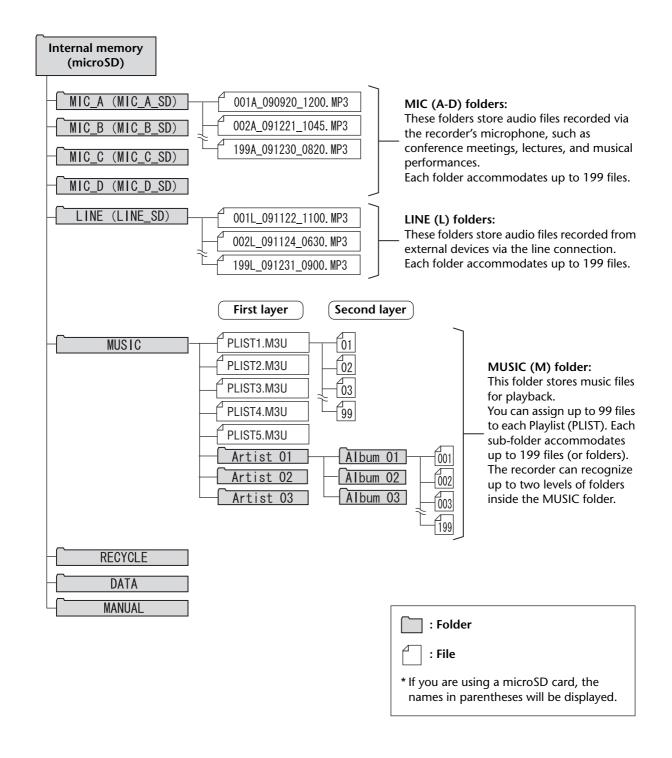
This folder stores the Owner's Manual and Reference Manual in PDF format. These manuals are organized into the sub-folders by language.

If you initialize the recorder's internal memory, the MANUAL folder will also be erased. If necessary, you can download the manuals from the following website: http://www.yamaha.co.jp/manual/

Note:	

This folder will be recognized only by a connected computer. The recorder will not display this folder on its screen.

■ POCKETRAK C24 folder structure



About the file naming rules

The recorder automatically names the recorded files, following the file naming rules as shown below. The recorder does not display the file number and the folder type. You can view them only via a connected computer.

$$\frac{001}{1} \frac{A}{2} - \frac{091121}{3} - \frac{1200}{4} \cdot \frac{MP3}{5}$$

- **1** File number (001–199)
- 2 Folder type (A–D: MIC folders A–D, L: LINE folder)
- 3 Recording date (Year, Month, Day: Date of the file recording)
- 4 Recording time (Hour, Minute: Start time of the file recording)
- **6** Extension (File format: MP3 for an MP3 recording file, and WAV for a PCM recording file)

Files moved into the Recycle Bin will be renamed as follows:

Example: Moving file "001A_091121_1200.MP3" in the MIC_A folder into the Recycle Bin

$$001_{\bullet} 001_{\bullet} 001_{\bullet} 091121_{\bullet} 1200_{\bullet} MP3_{\bullet}$$

- File number used in the Recycle Bin (Each file will be numbered sequentially based on when the file was moved to the Recycle Bin [e.g., 001, 002, 003, etc.])

 The recorder will not display these file numbers on its screen. You can view them only via a connected computer.
- 2 File number (The original file number used before the file was moved to the Recycle Bin)
- 3 Original folder name (The folder that originally contained the file before it was moved to the Recycle Bin)
- 4 Recording date (Year, Month, Day: Date of the file recording)
- **6** Recording time (Hour, Minute: Start time of the file recording)
- 6 Extension (File format: MP3 for an MP3 recording file, and WAV for a PCM recording file)

Transferring audio files from the recorder to a computer

■ Windows:

- 1. Connect the recorder to a computer.
- **2.** Open [My Computer] from the [Start] menu.
- 3. Double-click the [PRC24] or [PRC24SD] folder.
- 4. Double-click the folder that contains the file that you wish to load to your computer.
- 5. Copy the file to the desired location.

■ Macintosh:

- 1. Connect the recorder to a computer.
- 2. Double-click the drive icon [PRC24] or [PRC24SD] of the recorder on the desktop.
- 3. Double-click the folder that contains the file that you wish to load to your computer.
- 4. Copy the file to the desired location.

ŸHint:

Transferring audio files from the computer to the recorder

In Step 4 (for Windows) or Step 3 (for Macintosh), drag and drop the audio files that you wish to transfer (such as MP3 files or WMA files) into the [MUSIC] folder. The MUSIC (M) folder stores music and other audio files transferred from a connected computer. Before transferring audio files to the MIC(A–D) folders or LINE (L) folder, rename the files following the file naming rules (see page 66). The unit will not play files that do not comply with the file naming rules, unless they are in the MUSIC (M) folder.

Copying audio files to a CD-R

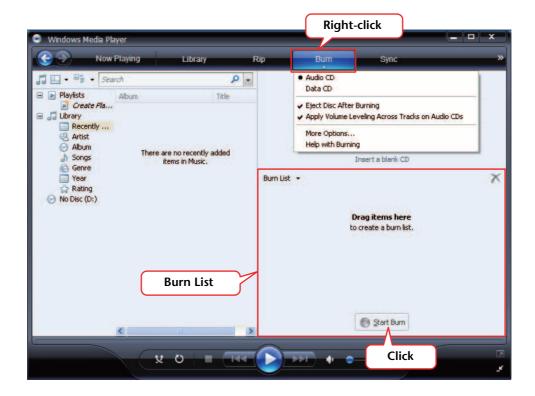
You can copy audio files (that were recorded on the recorder) to a CD-R disc by using Windows Media Player.

Please visit the Microsoft website for information on how to obtain Windows Media Player. http://www.microsoft.com/windows/windowsmedia/

Note: .

- · This section uses Windows XP and Widows Media Player 11 as examples.
- · To copy audio files to a CD-R disc, you must have a CD writer, such as a CD-R/RW drive.
- 1. From the [Start] menu, select [All Programs], then click [Windows Media Player] to start Windows Media Player.
- 2. Right-click [Burn] in the menu bar, then select [Audio CD] or [Data CD].

[Audio CD]	Audio files are converted to CD-DA format and copied to a CD-R/RW disc. You can play the disc on a CD-R compatible CD player in your home or car.	
[Data CD]	Audio files (MP3 or PCM) are copied to a CD-R/RW disc without conversion. You can play the disc on a computer, but not on an audio CD player.	



- 3. Insert a new CD-R/RW disc into the CD-R/RW drive.
- 4. Drag and drop the audio files you wish to copy to the Burn List pane in the Windows Media Player panel.
- 5. Click [Start Burn] to start copying the files to the CD-R/RW disc.

13 Using the Recorder as a Music Player

If you install Windows Media Player or iTunes on your computer and transfer music files to the connected recorder, you can use the unit as a music player.

Please visit the Microsoft website for information on how to obtain Windows Media Player. http://www.microsoft.com/windows/windowsmedia/

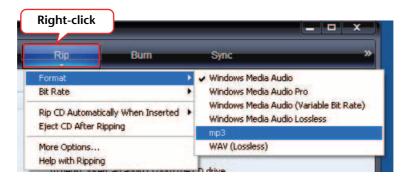
Note:

- · This section uses Windows XP and Widows Media Player 11 as examples.
- · Copying commercially-available music data is strictly prohibited except for your personal use.
- Yamaha makes no representations or warranties with regard to the content of files, and cannot be held responsible for the failure of transfers or downloads, or for damage or erasure of music files due to malfunction of the unit or your computer.

Ripping CDs (Creating compatible music files from music CDs)

You can import music files from music CDs into your computer and convert them to MP3 or WMA files so that they can be played on the recorder.

- 1. From the [Start] menu, select [All Programs], then click [Windows Media Player] to start Windows Media Player.
- **2.** Right-click [Rip] in the menu bar, then select [Format] \rightarrow [mp3].



3. Click [Rip] in the menu bar.



4. Insert a music CD into the computer's CD-ROM drive.

Note: .

If your computer has access to the Internet, the system will automatically obtain and display music information related to the CD.

5. Check the box for each song that you wish to rip to your computer, then click [Start Rip].

The system starts ripping the CD.

Note:

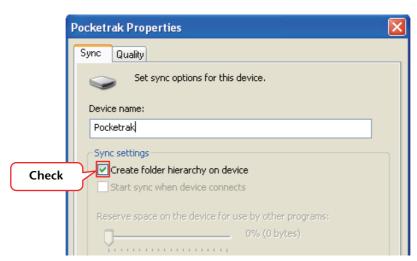
You can also set Windows Media Player so that inserting a music CD will automatically start ripping.

Transferring music files to the Recorder (Sync function)

You can transfer audio files (ripped from a music CD to a computer) to the recorder for playback. For information on how to rip a music CD, refer to the "Ripping CDs (Creating compatible music files from music CDs)" on page 69.

- 1. From the [Start] menu, select [All Programs], then click [Windows Media Player] to start Windows Media Player.
- 2. Click [Sync] in the menu bar.
- 3. Connect the recorder to the computer.

- **4.** Right-click [Sync] in the menu bar, then select [Pocketrak] or [Pocketrak SD] \rightarrow [Advanced Options...].
- **5.** Check the box for "Create folder hierarchy on device" on the [Sync] tab, then click [OK].



Note

If the box has already been checked by default, the folder may not be created. Remove the check from the box, then check the box again, and then click [OK].

6. Drag and drop the desired music files from the Library pane in the left column of the window to the Sync List pane in the right column of the window.



7. Click [Start Sync].

The files will be transferred to the recorder.

14 Installing Cubase Al

The recorder ships with a DVD disc that contains the DAW software "Cubase AI." You can use this software to edit and mix audio files. This section explains how to install Cubase AI. Refer to the PDF documentation supplied with Cubase AI (Getting Started and Operation Manual, opened from the "Help" menu).

Note:	
You can not copy audio files to a CD-R disc by using Cubase AI. To copy audio files to a	
CD-R disc, refer to page 68.	

⚠ IMPORTANT

The Steinberg End-User License Agreement will be displayed during installation. Please read the Agreement carefully, and install the software if you agree to the terms.

- 1. Start the computer and log on to the Administrator account.
- 2. Insert the Cubase AI DVD-ROM into the DVD-ROM drive.
- 3. When the "WELCOME TO CUBASE AI" window appears, choose your preferred language by clicking on the corresponding national flag icon.
- 4. Click "Install CUBASE AI."
- **5.** Follow the onscreen instructions to install the software.

Note:
In order to have continuous use of Cubase AI, including support and other benefits, you
will need to register the software and activate your software license by starting it while
the computer is connected to the Internet. Click the "Register Now" button shown when
the software is started, then fill in all required fields for registration. If you do not register
the software, you will be unable to use it after a limited period of time expires.

15 Appendix

Error messages

The following table explains the error messages that you may see during operation of the recorder.

Unit status or function	Error message	Description
Low battery	LOW BATTERY! REPLACE BATTERY	The battery is exhausted. Replace the battery with a new one.
Recording	MEMORY FULL!	The internal memory or microSD card does not have sufficient free space for recording.
	FILE FULL!	You attempted to record more files than the maximum number of files allowed for the selected folder.
	NO DATA!	You pressed the [PLAY] button but the selected folder contains no files.
Playback	CANNOT CHANGE PLAYBACK SPEED!	You attempted to change the playback speed while playing back a PCM recording. You cannot change the playback speed of PCM (WAV) files.
Editing (Index)	INDEX FULL!	You attempted to insert more index marks than the maximum number (36) of index marks allowed per file. No more index marks will be recorded.
Editing (File division)	CANNOT DIVIDE! FOLDER FULL!	You attempted to divide a file when the corresponding folder contains the maximum number of files allowed.
	CANNOT DIVIDE! MEMORY FULL!	The internal memory or microSD card does not have sufficient free space to divide a file.
	CANNOT DIVIDE! REC TIME TOO SHORT!	The recording is too short in duration to divide.
	CANNOT DIVIDE! AT THIS POINT	You cannot divide the file at the current point.

Unit status or function	Error message	Description
Editing (Fade in/fade out)	CANNOT FADE IN! FILE TOO SHORT!	The file is too short in duration (ten seconds or less) to apply the fade in effect.
	CANNOT FADE OUT! FILE TOO SHORT!	The file is too short in duration (ten seconds or less) to apply the fade out effect.
	CANNOT FADE IN! READ-ONLY FILE!	You attempted to apply the fade in effect to a file other than a PCM (WAV) file. You cannot apply the fade in effect to any files other than PCM (WAV) files.
	CANNOT FADE OUT! READ-ONLY FILE!	You attempted to apply the fade out effect to a file other than a PCM (WAV) file. You cannot apply the fade out effect to any files other than PCM (WAV) files.
	MEMORY FULL!	The internal memory or microSD card does not have sufficient free space for applying the fade in or out effect.
Editing (General)	CANNOT EDIT! READ-ONLY MODE!	You attempted to edit a file in the MUSIC folder using the [EDIT MENU].
List screen	NO FILE	The selected folder does not contain any files that can be played on the unit.
Recycle Bin	CANNOT EDIT! READ-ONLY MODE!	You attempted to edit a file in the Recycle bin folder using the [EDIT MENU].
	FOLDER FULL!	You cannot move the file from the Recycle Bin to its original folder because the folder contains the maximum number of files allowed.
	RECYCLE BIN FULL!	You attempted to delete a file while the Recycle Bin function was turned on and the Recycle Bin folder contained the maximum number of files allowed (199 files).
	PLEASE EMPTY THE RECYCLE BIN FIRST!	The internal memory or microSD card does not have sufficient free space, and files or folders cannot be deleted. Empty the Recycle Bin folder.
microSD card	NO MEDIA!	You attempted to record or play back a file with no microSD card inserted inserted. Insert a microSD card.
	SD CARD ACCESS ERROR! INSERT AGAIN!	The recorder did not recognize the inserted microSD card, or the card is broken. Try inserting the card again.
	SD CARD WRITE FAILURE!	PCM recording was incomplete or the data was not written correctly.

Unit status or function	Error message	Description
Playlists	PLAYLIST FULL! TOO MANY FILES!	You attempted to assign a 100th file to one of the Playlists (PLIST).
	PLAYLIST CAN BE EDITED ONLY IN MUSIC FOLDER	You attempted to select a file in a folder other than the MUSIC (M) folder and assign it to one of the Playlist (PLIST).
	TOO MANY FILES FOR A PLAYLIST!	You attempted to assign more than 100 files to one of the Playlists (PLIST).
	NO FILE IN PLAYLIST!	The original file of the track assigned to one of the Playlist (PLIST) has been deleted.

Troubleshooting

The unit does not operate.	
Possible cause	Battery is not inserted properly or is exhausted.
Corrective action	Reinsert the battery correctly or replace it with a new battery (refer to the Owner's Manual).

Buttons do not work.		
Possible cause	The Hold function is set.	
Corrective action	Set the [POWER/HOLD] switch (located on the rear panel of the unit) to its original position to cancel the Hold function.	
Possible cause	The USB plug is still connected to the computer.	
Corrective action	Disconnect the unit from the computer (see page 60).	

The unit does not recognize the inserted microSD card.	
Possible cause	The microSD card is not inserted correctly.
Corrective action	Turn off the power to the unit, then insert the microSD card correctly.
Possible cause	The microSD card was formatted on a computer or device other than the recorder.
Corrective action	Use the recorder to format the microSD card (see page 50).

No sound.	
Possible cause	The volume is turned down too low.
Corrective action	Use the [VOLUME] (+/-) button to adjust the volume level.

Files in the MIC (A-D), LINE or Recycle Bin (ill) folders cannot be played.		
Possible cause	The file name is wrong.	
Corrective action	If you change the file name on a computer, then move the file back to the original folder, you cannot play the file on the unit. Transfer the file to the MUSIC (M) folder to play it.	
Possible cause	The audio file is not in the type of WAV format that is supported by the unit.	
Corrective action	The unit will not play back a WAV file that was not recorded on the unit.	

Files in the MUSIC (M) folder cannot be played (correctly or at all).		
Possible cause	The file is not in a playable format.	
Corrective action	Use MP3 or WMA files.	
Possible cause	The audio file is not in the type of PCM (WAV) format that is supported by the unit.	
Corrective action	The unit will not play back a WAV file that was not recorded on the unit.	
Possible cause	The file was transferred to an incorrect destination.	
Corrective action	The unit will not play files that were transferred from a computer to a folder other than the MUSIC (M) folder. Be sure to transfer the file to the MUSIC (M) folder in the [PRC24] or [PRC24SD].	
Possible cause	The file is not competible with the unit	
Possible cause	The file is not compatible with the unit.	
Corrective action	Create a file using different MP3/WMA encoder software.	
Possible cause	The files listed in the Playlist are missing from the MUSIC (M) folder.	
Corrective action	Delete the file names from the Playlist. Alternatively, transfer the missing files to the MUSIC (M) folder.	
B 111	The manifestory of almost file has been asset to	
Possible cause	The maximum number of playable files has been exceeded.	
Corrective action	The unit can play back up to 199 files per folder. If the folder contains subfolders, the maximum number of playable files will be reduced by the number of sub-folders. Store extra files in another folder.	

A file cannot be divided.		
Possible cause	The internal memory or the microSD card may have insufficient free space.	
Corrective action	Erase unnecessary files (see page 48).	
Possible cause	The file is too short to divide.	
Corrective action	The minimum file length required for the file division operation varies with the recording mode (see page 38).	

A file cannot be erased.					
Possible cause	The attribute of the file is set to "read only."				
Corrective action	Connect the unit to a computer and change the file attribute or erase the file using the computer. Alternatively, format the microSD card (see page 50).				

[PRC24] or [PRC24SD] icon does not appear when you connect the unit to the computer.					
Possible cause	The unit is not connected to the computer correctly.				
Corrective action	Make sure that the USB plug on the unit is securely and correctly connected to the computer (see page 59).				
Possible cause	Power supplied from the computer to the unit is insufficient.				
Corrective action	If the recorder is connected via a bus-powered USB hub, remove the hub, then connect the recorder directly to the computer's USB terminal. Alternatively, use a self-powered USB hub (with the power adaptor). If the computer features multiple USB terminals, use a different USB terminal to connect the recorder (see page 59).				
Possible cause	A network drive has been assigned.				
Corrective action	If a network drive has been assigned, the drive letter (an alphabet letter used as the drive name) is already taken. In this case, [PRC24] or [PRC24SD] icon may not be created. Change the network drive assignment, then reconnect the unit. Consult your network administrator regarding how to reassign the network drive.				
Possible cause	The connected computer does not recognize the recorder.				
Corrective action	If the computer does not recognize the unit, try connecting it again. If you connect the unit to any computer other than those supported by the unit, Yamaha will not guarantee the operation of the unit (see page 59).				

The file transfer speed (from the computer to the unit) is slow.				
Possible cause	The unit is connected to a USB1.1 terminal on the computer.			
Corrective action	Connect the unit to a USB2.0 High Speed terminal.			

When the unit is connected to the computer, the unit does not display the "Connected" icon.					
Possible cause	The unit is not connected to the computer correctly.				
Corrective action	In some cases, the unit may not display the "Connected" icon or may not be recognized when it is connected to a computer. Disconnect the unit from the computer, then reconnect it.				

The recorded audio sounds noisy.					
Possible cause	Wind noise has been recorded.				
Corrective action	The built-in stereo microphone is highly sensitive. Therefore, a slight breeze or breath — even a weak air conditioning breeze that hits the microphones directly — will be recorded as noise. To reduce the level of wind and other environmental noise: • Turn on the High Pass Filter via menu item [HPF] (see page 17). • Set the [MIC SENS] (microphone sensitivity) to [LOW] (see page 13).				

The recorded sound is distorted.					
Possible cause	The microphone sensitivity level may not be appropriately set.				
Corrective action	 Set the [MIC SENS] (microphone sensitivity) to [LOW] (see page 13). If you still hear distortion, set the High Pass Filter to ON (see page 17). If the ALC function is turned off, set the recording peak limiter to ON (see page 17). 				

The recorded sound skips.				
Possible cause	 The microSD card was formatted not on the recorder, but on a computer or other device. The microSD card may be fragmented significantly. 			
Corrective action	Use the recorder to format the microSD card (see page 50).			
Possible cause	You are using a microSD card that is not recommended by Yamaha.			
Corrective action	Use a microSD card that is recommended by Yamaha (refer to the Owner's Manual).			

The date and time are displayed incorrectly.		
Corrective action	Set the correct date and time (see page 55).	

Deleting files does not increase the amount of free space.			
Possible cause The Recycle Bin function is turned on.			
Corrective action	Empty the Recycle Bin (see page 47).		

The timer does not work properly. (The timer recording failed.)				
Possible cause	The calendar was initialized.			
Corrective action	Set the calendar (date and time) (see page 55).			
Possible cause	The folder to which to record is full.			
Corrective action	Delete unnecessary files (see page 48).			
	Select a different folder to which to record.			
Possible cause	The battery is exhausted.			
Corrective action	Replace the battery (refer to the Owner's Manual).			
Possible cause	The internal memory or microSD card may not have sufficient free space.			
Corrective action	Delete unnecessary files (see page 48).			
Possible cause	The microSD card has been selected as the recording destination, but the card has not been inserted in the recorder.			
Corrective action	Insert a microSD card in the recorder.			

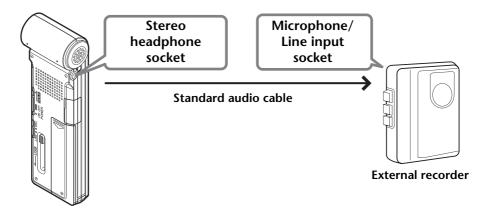
FAQ

Q: Why do I hear a rustling noise in the recordings?

A: A rustling noise may be recorded if you move the unit during recording, or even if you move your fingers while holding the unit when recording. If possible, try not to move the unit during recording.

Q: How can I transfer the recordings onto tapes or MDs?

A: Use a standard audio cable (with 3.5mm mini plugs) to connect the unit to your tape recorder or MD recorder, then dub the recordings to a tape or MD.



Compatible audio cable

Socket on the external recorder	Audio cable		
Microphone input	3.5-mm mini plug, with resistance		
Line input	3.5-mm mini plug, without resistance		

- * Use a stereo audio cable.
- * Before dubbing the recordings, adjust the dubbing level on the unit.
- * You can also dub the recordings from your tape player or MD player to the unit (see page 11).

Q: Are there any tips to making a good recording?

A: Try a test recording to set the optimum recording mode and sensitivity, since the recording condition varies with the location and circumstances.

Q: I cannot play a recorded file that was stored on the computer and transferred back to the unit.

A: You may have changed the file name on the computer. If you change the file name, the file will not play, even if it is transferred back into the MIC(A–D) or LINE folder. However, you will be able to play the file if you transfer it into the MUSIC folder.

Specifications

5	Windows 7, Vista, XP Professional/Home Edition				
Supported OS	Mac OS X 10.4, 10.5, 10.6				
Supported media	microSD/SDHC card				
	РСМ	24bit	96kHz	Approx. 55min.	
			88.2kHz	Approx. 1hr.	
			48kHz	Approx. 1hr.50min.	
			44.1kHz	Approx. 2hr.	
		16bit	96kHz	Approx. 1hr.25min.	
Recording mode and estimated			88.2kHz	Approx. 1hr.30min.	
available recording time (with the		TODIC	48kHz	Approx. 2hr.50min.	
internal 2GB memory)			44.1kHz	Approx. 3hr.	
		320kbps		Approx. 13hr.30min.	
		192kbps		Approx. 22hr.30min.	
	MP3	128kbps		Approx. 34hr.	
		64kbps		Approx. 68hr.	
		32kbps		Approx. 136hr.	
Recording format	MP3, PCM (WAV)				
Playback format	MP3 (MPEG1 LAYER3, MPEG2 LAYER3), WMA				
Trayback format	PCM (Only files recorded on this unit are supported.)				
		96kHz/24, 16bit		40Hz–47kHz	
	PCM	88.2kHz/24, 16bit		40Hz–43kHz	
	I CIVI	48kHz/24, 16bit		40Hz–23kHz	
		44.1kHz/24, 16bit		40Hz-21.7kHz	
Frequency response (recording with an external microphone)	MP3	320kbps		40Hz–21kHz	
·		192kbps		40Hz–20kHz	
		128kbps		40Hz–17kHz	
		64kbps		40Hz–7.6kHz	
		32kbps		40Hz–6.7kHz	
Frequency response (recording with the built-in microphone)	 100–20,000Hz (PCM recording) * The high end frequency response varies with the recording mode that was selected for recording with an external microphone. The low end response is 100Hz in all MP3 recording modes. 				
Frequency response (playback)	20–23,000Hz				
Sampling frequency	16kHz–96kHz				
	16–320kbps (MP3)				
Bit rate (playback)	32–192kbps (WMA) * Some files may not be played back correctly.				

Connectors	USB, Stereo headphones 3.5-mm mini, Stereo microphone (line input) 3.5-mm mini, microSD card slot
Operating temperature	+5°C – +35°C (+41°F – +95°F)
Output (headphones)	10mW + 10mW (at 16Ω load)
Power supply	"AAA/LR03" alkaline battery (1) or "AAA" nickel-metal hydride battery (1)
Battery life for recording	Alkaline battery: MP3 64kbps: Approx. 26 hours, PCM 44.1kHz 16bit: Approx. 16 hours (Recording condition: Recording LED off, backlight off, no recording monitoring, ALC on)
Battery life for playback through headphones	Alkaline battery: MP3 64kbps: Approx. 34 hours, PCM 44.1kHz 16bit: Approx. 18 hours (Playback condition: Playback LED off, backlight off, FLAT sound EQ)
Battery life for playback through the speaker	Alkaline battery: MP3 64kbps: Approx. 19 hours, PCM 44.1kHz 16bit: Approx. 14 hours (Playback condition: Playback LED off, backlight off, FLAT sound EQ)
Dimensions	Approx. 37.6 (W) x 113.0 (H) x 21.1 (D) mm 1-1/2 (W) x 4-7/16 (H) x 13/16 (D) inch
Weight	Approx. 57 g (2.0 oz) (including an alkaline battery)
Included accessories	AAA/LR03 alkaline battery (1) DVD-ROM (1) Mounting clip (1) Owner's Manual (1)

- Battery life varies depending on the type and manufacturer of the battery, storage conditions, usage, ambient temperature, etc. The battery life values listed above are estimates and are not guaranteed.
- The battery life of a nickel-metal hydride battery is about 70% of that of an alkaline battery. Also, the voltage of a nickel-metal hydride battery is different from that of an alkaline battery. Therefore, the remaining battery power for a nickel-metal hydride battery may not be displayed correctly. You cannot charge a nickel-metal hydride battery using the unit.
- The available recording time refers to the optimal total recording time available for all folders, and assumes that no recorded data exists in the internal memory and that one continuous recording is made without changing the recording mode.
- The largest available recording space (for continuous recording) in one file is 2GB. If the largest available recording space (2GB) is reached, recording in the next file will automatically start in about two seconds (when using a microSDHC card). However, you will be unable to record continuously beyond the battery life.
- When you purchase the recorder, the manuals are stored in PDF format in the internal memory. Therefore, the actual available recording time is less than the above time.
- Specifications and descriptions in this owner's manual are for information purposes only. Yamaha Corp. reserves the right to change or modify products or specifications at any time without prior notice. Since specifications, equipment or options may not be the same in every locale, please check with your Yamaha dealer.

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