



POCKET RECORDER
POCKETRAK
CX

Owner's Manual

Bedienungsanleitung

Mode d'emploi

Manual de instrucciones

Manuale di istruzioni

Руководство пользователя

使用说明书

取扱説明書

EN
DE
FR
ES
IT
RU
ZH
JA

ENGLISH

DEUTSCH

FRANÇAIS

ESPAÑOL

ITALIANO

РУССКИЙ

中文

日本語

FCC INFORMATION (U.S.A.)

1. IMPORTANT NOTICE: DO NOT MODIFY THIS UNIT!

This product, when installed as indicated in the instructions contained in this manual, meets FCC requirements. Modifications not expressly approved by Yamaha may void your authority, granted by the FCC, to use the product.

2. IMPORTANT:

When connecting this product to accessories and/or another product use only high quality shielded cables. Cables supplied with this product MUST be used. Follow all installation instructions. Failure to follow instructions could void your FCC authorization to use this product in the USA.

3. NOTE:

This product has been tested and found to comply with the requirements listed in FCC Regulations, Part 15 for Class "B" digital devices. Compliance with these requirements provides a reasonable level of assurance that your use of this product in a residential environment will not result in harmful interference with other electronic devices. This equipment generates/uses radio frequencies and, if not installed and used according to the instructions found in the users manual, may cause interference harmful to the operation of other electronic

devices. Compliance with FCC regulations does not guarantee that interference will not occur in all installations. If this product is found to be the source of interference, which can be determined by turning the unit "OFF" and "ON", please try to eliminate the problem by using one of the following measures:

Relocate either this product or the device that is being affected by the interference.

Utilize power outlets that are on different branch (circuit breaker or fuse) circuits or install AC line filter/s.

In the case of radio or TV interference, relocate/reorient the antenna. If the antenna lead-in is 300 ohm ribbon lead, change the lead-in to co-axial type cable.

If these corrective measures do not produce satisfactory results, please contact the local retailer authorized to distribute this type of product. If you can not locate the appropriate retailer, please contact Yamaha Corporation of America, Electronic Service Division, 6600 Orangethorpe Ave, Buena Park, CA90620

The above statements apply ONLY to those products distributed by Yamaha Corporation of America or its subsidiaries.

* This applies only to products distributed by YAMAHA CORPORATION OF AMERICA.

(class B)

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

CANADA

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

- This applies only to products distributed by Yamaha Canada Music Ltd. (class B)
- Ceci ne s'applique qu'aux produits distribués par Yamaha Canada Musique Ltée.

COMPLIANCE INFORMATION STATEMENT (DECLARATION OF CONFORMITY PROCEDURE)

Responsible Party : Yamaha Corporation of America
Address : 6600 Orangethorpe Ave., Buena Park, Calif. 90620
Telephone : 714-522-9011
Type of Equipment : POCKET RECORDER
Model Name : POCKETRAK CX

This device complies with Part 15 of the FCC Rules.

Operation is subject to the following two conditions:

- 1) this device may not cause harmful interference, and
- 2) this device must accept any interference received including interference that may cause undesired operation.

See user manual instructions if interference to radio reception is suspected.

* This applies only to products distributed by YAMAHA CORPORATION OF AMERICA.

(FCC DoC)

IMPORTANT

Please record the serial number of this unit in the space below.

Model

Serial No.

The serial number is located inside the battery compartment of the unit.
Retain this Owner's Manual in a safe place for future reference.

* This applies only to products distributed
by YAMAHA CORPORATION OF AMERICA.

(Ser.No)

About MP3




- Supply of this product does not convey a license nor imply any right to distribute content created with this product in revenue-generating broadcast systems (terrestrial, satellite, cable and/or other distribution channels), streaming applications (via Internet, intranets and/or other networks), other content distribution systems (pay-audio or audio-on-demand applications and the like) or on physical media (compact discs, digital versatile discs, semiconductor chips, hard drives, memory cards and the like). An independent license for such use is required. For details, please visit <http://mp3licensing.com>.
- MPEG Layer-3 audio coding technology licensed from Fraunhofer IIS and Thomson.



PRECAUTIONS

PLEASE READ CAREFULLY BEFORE PROCEEDING

* Please keep this manual in a safe place for future reference.

 DANGER	Make sure to always observe the basic precautions listed below to prevent the likelihood of serious injury or even death from electrical shock, short-circuiting, damage, fire or other hazards.
 WARNING	Always follow the basic precautions listed below to avoid the possibility of serious injury or even death from electrical shock, short-circuiting, damages, fire or other hazards.
 CAUTION	Always follow the basic precautions listed below to avoid the possibility of physical injury to you or others, or damage to the device or other property.

These precautions include, but are not limited to, the following:

About the Device

DANGER

Handling caution

- Do not operate the device or use headphones/earphones while driving a car or riding a motorcycle or a bicycle, since this could result in a serious accident.

WARNING

Do not open

- Do not open the device or attempt to disassemble the internal parts or modify them in any way. The device contains no user-serviceable parts. If it should appear to be malfunctioning, discontinue use immediately and have it inspected by qualified Yamaha service personnel.

Water warning

- Do not expose the device to rain, use it near water or in damp or wet conditions, or place containers near it containing liquids which might spill into any openings. If any liquid such as water seeps into the device, turn off the power immediately and unplug the power cord from the AC outlet. Then have the device inspected by qualified Yamaha service personnel.

If you notice any abnormality

- If this device should be dropped or damaged, immediately turn off the power and have the device inspected by qualified Yamaha service personnel.

CAUTION

Location

- Before moving the device, remove all connected cables.
- Do not expose the device to excessive dust or vibrations, or extreme cold or heat (such as in direct sunlight, near a heater, or in a car during the day) to prevent the possibility of panel discoloration or damage to the internal components.
- Do not place the device in an unstable position where it might accidentally fall over.
- Do not use the device in the vicinity of a TV, radio, stereo equipment, mobile phone, or other electric devices. Doing so may result in noise, both in the device itself and in the TV or radio next to it.

Handling caution

- Do not use the device or headphones/earphones for a long period of time at a high or uncomfortable volume level, since this can cause permanent hearing loss. If you experience any hearing loss or ringing in the ears, consult a physician.
- Do not rest your weight on the device or place heavy objects on it, and avoid use excessive force on the buttons, switches or connectors.

Saving data

- Saved data may be lost due to malfunction or incorrect operation. To protect against data loss, we recommend that you save important data to an external device such as a computer.

About the Battery

DANGER

- **If you notice battery leakage, discoloration, deformation, or any strange smell, immediately remove the battery from the device and stop operating, and also keep away from fire.**

If you continue operating the device, it could cause battery fire, explosion, electrolyte blowout, or smoke. If a leaking battery is close to a source of flame, the battery electrolyte could catch fire, resulting in battery fire, explosion, electrolyte blowout, or smoke.

eneloop (Rechargeable Ni-MH Battery)

- **Use only an “eneloop” battery.**

Do not use any rechargeable battery other than an eneloop battery. For your safety, do not use imitation or counterfeit rechargeable batteries. Use of batteries other than eneloop might cause battery fire, explosion and fluid leakage, resulting in fire, injuries, chemical burns or environmental pollution.

- **Do not deform, disassemble, or modify the battery.**

Any modifications such as deformation, disassembly, or soldering directly to the battery terminals may cause ignition, explosion, and leakage or ejection of the electrolyte.

- **Do not allow a wire to connect the positive and negative terminals, and do not carry or store the battery together with metallic objects such as a necklaces or hairpins.**

Doing so may short-circuit the battery, causing excessive current to flow, and possibly resulting in ignition, explosion, and leakage or ejection of the electrolyte. This may also cause the wire or necklace to heat up.

- **Do not throw the battery into a fire, heat it, or expose it to the sunlight for a long time.**

Doing so may melt the insulation, impair the safety mechanism, or ignite the electrolyte, causing ignition or explosion.

- **Recharge the battery only in this device or the specified charger.**

Charging the battery in any other charger may cause excessive or abnormal current flow during charging, producing abnormal chemical reactions within the battery that could cause ignition, explosion, electrolyte leakage, or overheating.

- **Do not peel off or damage the external covering.**

Peeling off the external covering, piercing it with a nail or sharp object, striking it with a hammer, or stepping on it may cause a

short-circuit within the battery, causing ignition, explosion, leakage or ejection of the electrolyte, or overheating.

- **Insert the battery as instructed.**

Always make sure the battery is inserted in conformity with the +/ - polarity markings. Failure to do so might cause abnormal chemical reaction when recharging or could cause abnormal electric current flow in the battery, resulting in fire, explosion, leakage or ejection of the electrolyte, or overheating in use.

- **Stop charging if charging does not end even though the specified charging time is exceeded.**

If you continue charging the battery, it may ignite, explode, leak electrolyte, or overheat.

WARNING

- **Do not leave the battery installed for an extended time.**

If the battery runs out, or if the device is not to be used for a long time (about one week), remove the battery from the device and keep it in a dry and cool place to prevent possible leakage of the battery fluid.

AA/LR6 Alkaline Battery

- **Do not deform, disassemble, or modify the battery.**

Any modifications such as deformation, disassembly, or soldering directly to the battery terminals may cause ignition, explosion, and leakage or ejection of the electrolyte.

- **Do not allow a wire to connect the positive and negative terminals, and do not carry or store the battery together with metallic objects such as a necklaces or hairpins.**

Doing so may short-circuit the battery, causing excessive current to flow, and possibly resulting in ignition, explosion, and leakage or ejection of the electrolyte. This may also cause the wire or necklace to heat up.

- **Do not throw the battery into a fire, heat it, or expose it to the sunlight for a long time.**

Doing so may melt the insulation, impair the safety mechanism, or ignite the electrolyte, causing ignition or explosion.

- **Do not peel off or damage the external covering.**

Peeling off the external covering, piercing it with a nail or sharp object, striking it with a hammer, or stepping on it may cause a short-circuit within the battery, causing ignition, explosion, leakage or ejection of the electrolyte, or overheating.

- **Insert the battery as instructed.**

Always make sure the battery is inserted in conformity with the +/ - polarity markings. Failure to do so might cause abnormal chemical reaction when recharging or could cause abnormal electric current flow in the battery, resulting in fire, explosion, leakage or ejection of the electrolyte, or overheating in use.



CAUTION

- **Do not remove the battery while the device is in use.**

Do not remove the battery while the device is being used. Doing so could corrupt the data or cause malfunctions.

- **Check the battery capacity before recording or deleting recorded material.**

If the remaining battery capacity indication should run low during recording, immediately stop recording, and recharge the battery or install a fresh battery. If the battery becomes exhausted during deletion, it will be impossible to delete the recorded material.

If the battery fluid leaks

If the battery does leak, avoid contact with the leaked fluid. If the battery fluid should come in contact with your eyes, mouth, skin, or clothes, wash immediately with water and consult a doctor.

Battery fluid is corrosive and may possibly cause loss of sight or chemical burns. Also if your skin should become inflamed when contacted by battery fluid, consult a doctor.

Information for Users on Collection and Disposal of Old Equipment and used Batteries



These symbols on the products, packaging, and/or accompanying documents mean that used electrical and electronic products and batteries should not be mixed with general household waste.

For proper treatment, recovery and recycling of old products and used batteries, please take them to applicable collection points, in accordance with your national legislation and the Directives 2002/96/EC and 2006/66/EC.

By disposing of these products and batteries correctly, you will help to save valuable resources and prevent any potential negative effects on human health and the environment which could otherwise arise from inappropriate waste handling.

For more information about collection and recycling of old products and batteries, please contact your local municipality, your waste disposal service or the point of sale where you purchased the items.

[For business users in the European Union]

If you wish to discard electrical and electronic equipment, please contact your dealer or supplier for further information.



[Information on Disposal in other Countries outside the European Union]

These symbols are only valid in the European Union. If you wish to discard these items, please contact your local authorities or dealer and ask for the correct method of disposal.

Note for the battery symbol (bottom two symbol examples):

This symbol might be used in combination with a chemical symbol. In this case it complies with the requirement set by the Directive for the chemical involved.

Cd

Yamaha cannot be held responsible for damage caused by improper use or modifications to the device, or data that is lost or destroyed.

Always turn the power off when the device is not in use.

The performance of components with moving contacts, such as switches, volume controls, and connectors, deteriorates over time. Consult qualified Yamaha service personnel about replacing defective components.

Make sure to discard used batteries according to local regulations.

For France, the included earphones has been tested to comply with the Sound Pressure Level requirement laid down in NF EN 50332-1:2000 standard as required by French Article L. 5232-1.

Maximum output voltage: 150 mV

Wide band characteristic voltage for the included earphones: 75 mV or higher

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- Apple, Mac and Macintosh are trademarks of Apple Inc., registered in the U.S. and other countries.
- Eneloop® is a registered trademark of SANYO Electric Co., Ltd.
- The microSD and microSDHC logos are trademarks.
- The company names and product names in this manual are the trademarks or registered trademarks of their respective companies.



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

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About the manuals

The operation of the POCKETRAK CX is explained in this Owner's Manual (this book) and also in the Reference Manual (PDF file) that can be downloaded from the Yamaha website.

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

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

Obtaining and viewing the Reference Manual

You can download the Reference Manual from the following Yamaha website.

<http://www.yamaha.co.jp/manual/>

(To view PDF files, you must install Adobe Reader on your computer. Adobe Reader can be downloaded free at <http://www.adobe.com/>.)

Introduction

Included accessories

(Please check that the following items are included.)

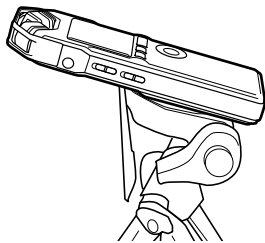
- **Enloop AA Ni-MH rechargeable battery (1)**
- **2GB microSD Memory Card (1)**
- **Earphones (1)**
- **Carrying bag (1)**
- **Microphone stand adapter (1)**
Use the adapter to attach the recorder to a microphone stand.
- **Windscreen (1)**
Cover the microphone openings with the windscreen to reduce wind and other noise in the recording environment.
- **DVD-ROM (1)**
The disc includes the “Cubase AI” DAW (Digital Audio Workstation) software. Please read “About the accessory disc” at the end of the English section in this manual before opening the DVD-ROM package.
- **USB cable (1)**
- **Owner’s Manual (this book) (1)**

Attaching the recorder to a tripod or a microphone stand

You can attach the recorder to a commercially available camera or camcorder tripod using the threaded socket on the unit. You can also attach the recorder to a microphone stand using the included microphone stand adapter.

Note:

- *The diameter of the threaded tripod socket is 1/4 inch or 6.35mm, and the diameter of the adapter thread is 3/8 inches or 9.525mm.*



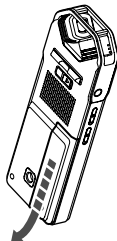
Main features

- **Built-in high-performance X-Y stereo microphone**
Enables high-fidelity and high-quality stereo recording.
- **Recording peak limiter**
Automatically adjusts excessive mic input levels for distortion-free recording.
- **2GB microSD memory card included**
The POCKETRAK CX supports microSD cards and microSDHC cards.

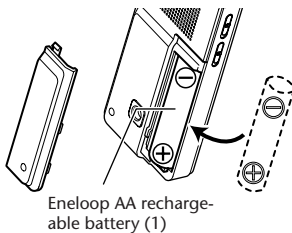
Starting Up

Inserting a battery

1. Open the battery cover.



2. Insert the included eneloop battery.



3. Close the battery cover.



Hint:

- You can use the “eneloop” battery repeatedly by recharging it. For information on recharging the “eneloop” battery, refer to page 26.
- You can also use commercially available AA alkaline batteries.
- If you use an alkaline battery, press and hold down the [MENU/ENTER] button for at least two seconds to access [COMMON MENU], then select “ALKALINE” for [BATTERY SET].

WARNING

- Be sure to use batteries at an ambient temperature between 5 and 35 degrees Celsius (41 and 95 degrees Fahrenheit). In particular, do not leave the recorder in a car during warm weather.

Turning the power on or off

Turning the power on

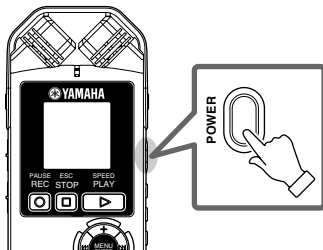
Press the [POWER] button.

Turning the power off

Press and hold down the [POWER] button for at least two seconds while the recorder is stopped.

Note:

- If you leave the recorder turned on for about 15 minutes without using it, the recorder will automatically turn off (when AUTO OFF is turned ON) (page 16).

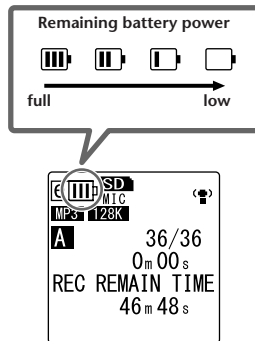


Checking the remaining battery power

Check the battery indicator on the LCD screen to determine the remaining battery power.

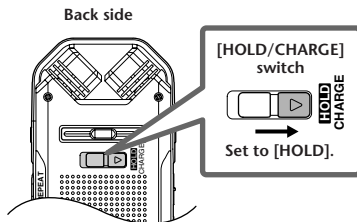
When the battery power falls to a low level, the recorder will display the message “LOW BATTERY!”. Recharge the “eneloop” or replace the battery with a new alkaline battery.

Hint: *For information on recharging the “eneloop” battery, refer to page 26.*



Disabling the controls (Hold function)

- If you set the [HOLD/CHARGE] switch to [HOLD ▷] during playback or recording, “HOLD ON” appears on the display and the controls will be disabled.
- Set the [HOLD/CHARGE] switch to its original position. “HOLD OFF” appears on the display and the Hold function is canceled.

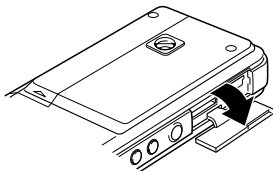


Inserting a microSD card

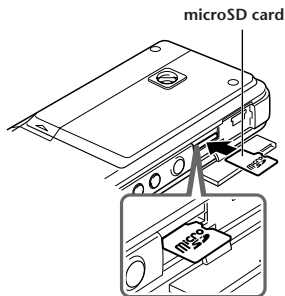
Use a microSD card to store the recording/playback data.

You must format a commercially available microSD card using the recorder before you use the card for the first time (page 16).

1. Open the microSD card slot cover.

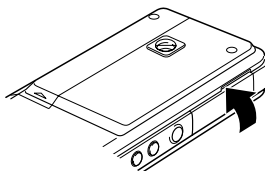


2. Insert the card straight in the direction shown in the illustration until it clicks.



3. Push the card gently with the tip of your finger until it clicks again.

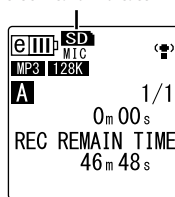
4. Close the card slot cover.



5. Turn the power on.

"SD" will appear on the LCD.

microSD card indicator



Note:

- If the recorder displays "NO MEDIA!" on the LCD, it means that the recorder does not recognize the card. In this case, remove the card, then insert the card again.
- Be sure to format the card using the recorder. The recorder may not recognize some microSD cards formatted by other devices, such as a computer.

To remove the card, open the slot cover and push in the card gently. The card will be ejected slightly. Pull out the card carefully.

About the microSD card

If you plan to use any card other than the included microSD card, use a 512MB – 2GB microSD card or a 4GB microSDHC card (these cards are compatible as of July 2008). However, some cards (depending on the manufacturer or type of card) may not work with the recorder.

For more information on microSD cards, please visit the following Yamaha website:
<http://www.yamahasynth.com/>

Before using the microSD card

- Make sure that you insert the microSD card in the recorder correctly. Otherwise, the recorder will not record or play.
- Do not apply too much force when you insert or remove the microSD card. Otherwise, you might injure your hand or finger or damage the card.
- If you insert the microSD card in the wrong orientation or upside down, the microSD card and/or the card slot may be damaged.
- If the recorder does not recognize the installed microSD card when the power to the unit is turned on, first turn off the power, remove the card, insert the card correctly, then turn the power on.
- Do not install or remove the microSD card while the power to the unit is on. Otherwise, the data on the microSD card may be damaged.
- Do not touch the terminal on the microSD card or expose the card to water or dirt.
- Do not try to bend, fold or place a heavy object on the microSD card.
- Do not use or keep the microSD card in a location subject to static electricity or electric noise.
- Do not place the microSD card in the vicinity of corrosive chemicals or corrosive gas. Otherwise, the card may malfunction or data on the card may be lost.
- Never place the microSD card within reach of small children. A child may swallow the card accidentally.
- If you discard the microSD card without precautions, important or personal data that remains on the card may become accessible to unauthorized individuals. To avoid this risk, erase all data on the card, destroy the card physically, then discard it.

About files and folders

One recorded session on the POCKETRAK CX is called a “file.”

Files are stored in a location called a “folder.” Files are stored in one of the following folders on a microSD card that has been inserted into the recorder.

VOICE folders (A-D):

The VOICE folder contains sub-folders A-D that store files recorded through the microphone.

LINE(L) folder:

This folder stores files recorded from external line-level devices.

MUSIC(M) folder:

This folder stores music files transferred from your computer.

RECYCLE (🗑️) folder:

This is a trash can folder.

ALARM folder:

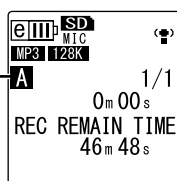
This folder stores files that can be played as an alarm. (The folder name will not be displayed.)

DATA folder:

This folder stores data files. (The folder name will not be displayed.)

For more information on the files and folders, please read the Reference Manual.

Folder name

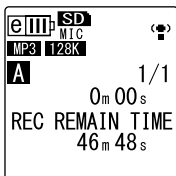


Hint: Pressing the [FOLDER/A-B REPEAT] button located on the side panel repeatedly will scroll through the folders.

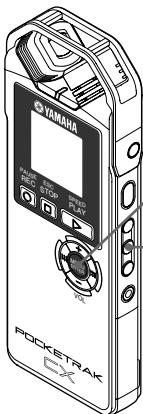
Basic Operation

About the screens

[Main screen]



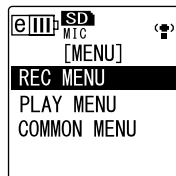
Appears when the power to the unit is turned on.



[Menu screen]



at least 2 sec

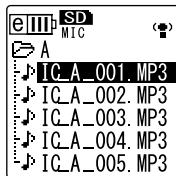


Appears when you press and hold down the [MENU/ENTER] button for at least two (2) seconds while the main screen is displayed.

This screen enables you to change Recording mode, set the date and time, initialize the recorder, and make other various settings. For details, see page 15.

[List screen]

LIST



Appears when you press the [LIST/INDEX] button while the main screen is displayed. The files stored on the microSD card will be displayed in a tree structure. For detailed operational information, refer to the Reference Manual.

Hint:

- To go back to the main screen, press the [STOP/ESC] button.

About the menu settings

Menu and menu item list

Menu items are categorized into three main menus: [REC MENU] (Recording settings), [PLAY MENU] (Playback settings) and [COMMON MENU] (Global settings).

[REC MENU] (Recording settings)

[REC MODE]	Sets the recording quality.
[REC LIMITER]	Turns the Recording peak limiter on or off.
[HPF]	Turns the High Pass (Low Cut) filter on or off.
[STEREO WIDE]	Turns the Stereo wide recording on or off.
[REC SELECT]	Selects a source connected to the external input jack.
[AUTO DIVIDE]	Divides the file automatically after a certain period of silence during recording.
[SELF TIMER]	Sets the time for the Self Timer recording.
[VAS]	Turns the VAS (Voice activated system) on or off.

[PLAY MENU] (Playback settings)

[REPEAT]	Sets the Repeat mode.
[PHRASE PLAY]	Sets the Phrase playback time (by the number of seconds the playback point will be moved back).
[SKIP PLAY]	Sets the Skip playback time (by the amount of time the playback point will skip).
[SOUND EQ]	Adjusts the tone.

[COMMON MENU] (Global settings)

[BEEP SOUND]	Turns the beep sound on or off.
[REC/PLAY LED]	Turns the recording/playback indicator on or off.
[DATE & TIME]	Sets the calendar (date and time).
[TIMER & ALARM]	Sets up Timer recording and alarm.
[BATTERY SET]	Selects the eneloop or alkaline battery.

(Continues to the next page...)

[AUTO OFF]	Turns the Auto Power Off function on or off.
[BACKLIGHT]	Turns the LCD backlight on or off.
[CONTRAST]	Adjusts the LCD contrast.
[RECYCLE BIN]	Turns the Recycle Bin function on or off.
[FORMAT]	Formats a microSD card.
[MENU RESET]	Initializes the menu settings.
[VERSION]	Indicates the firmware version information.

Setting the menu options

The following section explains how to set the menu items. The example here explains how to select “MP3 128kbps” for the Recording mode.

1. Press and hold down the [MENU/ENTER] button for at least two (2) seconds while the main screen is displayed.

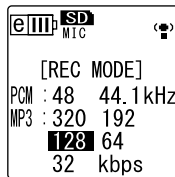


2. Press the [VOL +/-] buttons to select [REC MENU], then press the [MENU/ENTER] button.



3. Press the [VOL +/-] buttons to select [REC MODE], then press the [MENU/ENTER] button.

4. Press the [VOL +/-] buttons to select [MP3 128kbps], then press the [MENU/ENTER] button.



5. Press the [STOP/ESC] button twice. The screen returns to the main screen.



Before recording

The POKETRAX CX enables you to optimize your recordings by setting the Recording mode, ALC (Auto Level Control) function, microphone sensitivity, High Pass (Low Cut) filter and other functions. This section explains Recording mode and the ALC function. Please refer to the Reference Manual for information on the other functions.

About Recording mode

The POKETRAX CX records audio in the MP3 or PCM (WAV) format. As a rule of thumb, select “PCM 44.1kHz” (better sound quality) for Recording mode to record a musical performance. Select “MP3 128kbps” (smaller data size) to record musical practice sessions or conference meetings.

Recording mode and application examples

Recording format	Sampling frequency or bit rate	File extension	Application examples
PCM	48 kHz	.WAV	Recording a musical performance, creating a master recording, creating a CD, and recording other original sound sources
	44.1 kHz		
MP3	320 kbps	.MP3	High-quality recording of musical practice sessions, conference meetings, etc. compressed into a smaller size file
	192 kbps		
	128 kbps		Recordings for which extended duration is more important than sound quality (“32kbps” indicates a monaural recording.)
	64 kbps		
	32 kbps		

Available recording time (with the included 2GB microSD card)

Recording mode	Available recording time (estimated)
PCM 48 kHz	About 2 hours 50 minutes
PCM 44.1 kHz	About 3 hours 5 minutes
MP3 320 kbps	About 13 hours 35 minutes
MP3 192 kbps	About 22 hours 45 minutes
MP3 128 kbps	About 34 hours 5 minutes
MP3 64 kbps	About 68 hours 15 minutes
MP3 32 kbps	About 136 hours 30 minutes

* If you record multiple files, the total available recording time will be shorter than those estimated above.

* If you are using a 2GB or larger microSD card, the largest available recording space (for continuous recording) is 2GB.

Battery life for recording (with the included 2GB microSD card)

Eneloop battery		Alkaline battery	
PCM 44.1kHz, 16bit	About 21 hours 30 minutes	PCM 44.1kHz, 16bit	About 22 hours
MP3 64 kbps	About 44 hours	MP3 64 kbps	About 54 hours

* The above estimate is based on: Recording/playback LED off, backlight off, no recording monitoring, the ALC function on.

* Battery life varies depending on the type and manufacturer of battery/microSD-card, storage conditions, usage, ambient temperature, etc. Yamaha will not guarantee operation if you use any battery other than an alkaline battery or a rechargeable battery specified by Yamaha (eneloop).

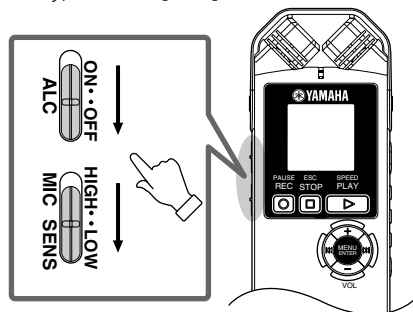
About the ALC (Auto Level Control) function

Auto Level Control function automatically adjusts the recording level in response to the source level so that the resulting recording will be dynamically tighter.

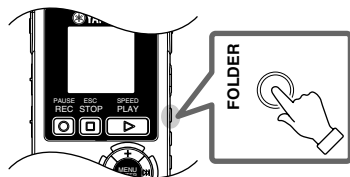
	ALC OFF	ALC ON
Feature	The recording will accurately represent the original sound, with the sound dynamics maintained as is.	The recording dynamics will be adjusted, with a higher level sound recorded slightly quieter and a lower level sound recorded slightly louder. This setting will reduce distortion and is better for dictation.
Application	Musical performance and nature recordings	Musical practice, conference meeting and interview recordings

Recording musical performance

Before recording, set the [ALC] switch to [OFF] and the [MIC SENS] (microphone sensitivity) switch to [LOW].



1. Press the [FOLDER/A-B REPEAT] button located on the side panel repeatedly to select a folder into which to record.

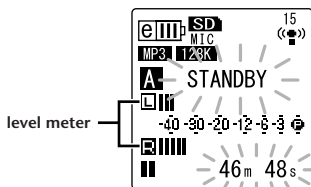


Hint:

- Pressing the [FOLDER/A-B REPEAT] button repeatedly will scroll through the folders. As an example, select one from folders A-D.

2. Press the [REC/PAUSE] button once again.

The unit enters recording [STANDBY] mode. (Recording has not started yet.)



Note:

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

3. Press the [←←]/[→→] buttons to adjust the MIC LEVEL (recording level).

Adjust the recording level while playing music, speaking, etc.

Hint:

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.

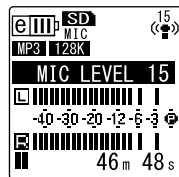
To set the recording peak limiter to ON, press and hold down the [MENU/ENTER] button for at least two seconds to access [REC MENU], then select "ON" for [REC LIMITER].

The peak limiter is available only when the ALC is set to OFF.

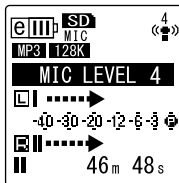
Adjusting the recording level

- Setting an appropriate recording level**
The recording level is appropriate when the level meter moves as far to the right as

possible without deflecting all the way, and the recording LED remains illuminated.

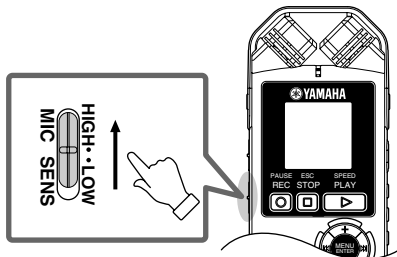


- If the recording level is too low:
Press the [→→] button to adjust the recording level so that the level meter will move moderately to the right.

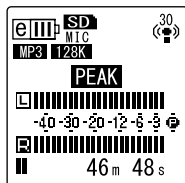


Note:

- If an appropriate recording level cannot be achieved even if you raise the level to "40," slide the [MIC SENS] switch to [HIGH].

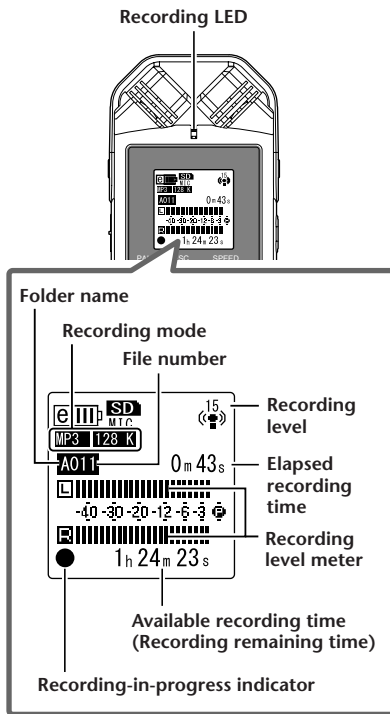


- **If the recording level is too high:**
The level meter frequently moves all the way to the right and the recording LED turns off. The **PEAK** appears on the screen when the level exceeds the specified threshold during recording.
Press the [◀◀] button to lower the recording level.



4. Press the [REC/PAUSE ○] button again.
The LED lights up in red, and recording begins.

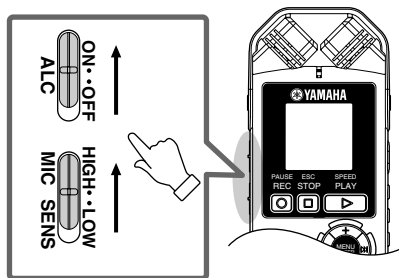
- **Indicators displayed during recording**



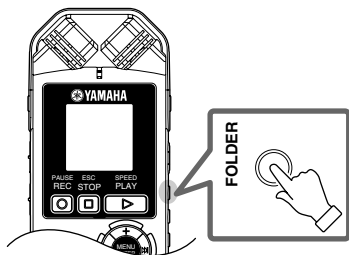
5. Press the [STOP/ESC □] button to stop recording.
The LED will be off, and REC REMAIN TIME will be displayed on the screen.

Simple recording (musical practice, meeting, etc.)

Before recording, set the [ALC] switch to [ON] and the [MIC SENS] (microphone sensitivity) switch to [HIGH].



1. Press the [FOLDER/A-B REPEAT] button located on the side panel repeatedly to select a folder into which to record.



Hint:

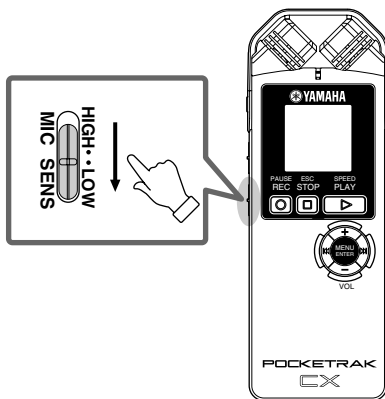
- Pressing the [FOLDER/A-B REPEAT] button repeatedly will scroll through the folders. As an example, select one from folders A-D.

2. Press the [REC/PAUSE] button.

The LED lights up in red, and recording begins.

Hint:

- If the recording level is too high (page 20), set the [MIC SENS] switch to [LOW].



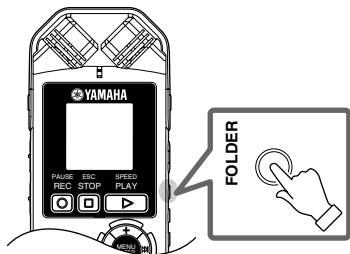
3. Press the [STOP/ESC] button to stop recording.

The LED will be off, and REC REMAIN TIME will be displayed on the screen.

Playing Back

The POKETRAK CX plays back MP3 and WMA format files as well as WAV format files recorded on the unit. To play back a file recorded on the unit, select a folder from the VOICE (A-D) folders or the LINE (L) folder. To play back a file transferred from a computer, select the MUSIC (M) folder.

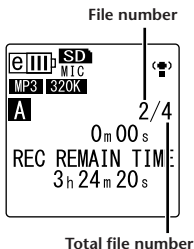
1. While the main screen is displayed, press the [FOLDER/A-B REPEAT] button located on the side panel repeatedly to select a folder from which to play back a file.



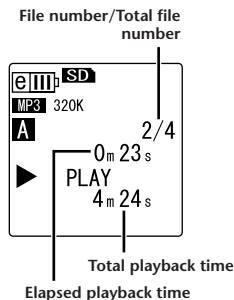
Hint:

- Pressing the [FOLDER/A-B REPEAT] button repeatedly will scroll through the folders.

2. Press [◀]/[▶] buttons to select the desired file number.



3. Press the [PLAY/SPEED ▶] button. The LED lights up in green and playback starts.



4. Press the [VOL +/-] buttons to set the proper playback volume level. The level can be set in 21 steps (0-20).
5. Press the [STOP/ESC ◻] button to stop playback. Press the [PLAY/SPEED ▶] button again to resume playback from that point.

Hint:

- You can play the files in each folder from the list screen (page 14).

Transferring Audio Files from the Recorder to a Computer

You can transfer audio files stored in the microSD card to a computer by connecting the recorder to the computer via an included USB cable. 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 Vista, XP Professional/Home Edition

Macintosh

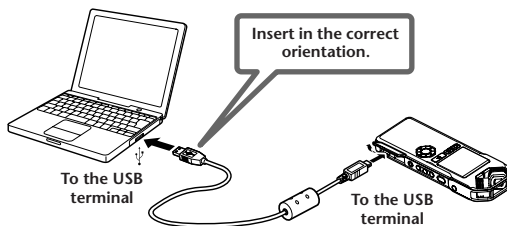
Computer: Macintosh computer with built-in USB interface
OS: Mac OS X 10.4, 10.5

Note:

- Visit the web site below for the latest information on included software and operating system requirements.
<<http://www.yamahasyth.com/>>
-

Connecting the recorder to your computer

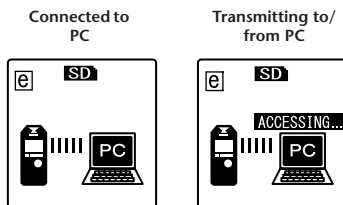
1. Start the computer.
2. Make sure that the recorder is turned off, and then connect the included USB cable.



IMPORTANT

Use only the USB cable included with the recorder. The use of an improper cable may damage the terminal and result in a malfunction.

Once the recorder is recognized by the computer, the following display appears on the screen.



If nothing appears on the computer display, or if the above screen fails to appear on the recorder, follow the steps below:

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

Precautions when using the USB terminal

Be sure to observe the following points when connecting to the computer's USB interface. If you do not observe these points, you risk freezing the computer, corrupting the data, and losing the data. If the computer or the recorder freezes, restart the application software such as Windows Media Player or OS.



IMPORTANT

- *Never disconnect the USB cable while data is being transferred.*
- *Be sure to wake the computer from sleep/suspended/standby mode before making a connection to the computer's USB connector.*
- *Quit all applications running on the computer before connecting or disconnecting the USB cable.*

Note:

- The screens, menu items and buttons displayed on your computer may not exactly match those shown in this manual, depending on the OS version or manufacturer of your computer. (This manual uses Windows XP and Mac OS X as examples.)

Loading audio files

Windows:

1. Connect the recorder to a computer.
2. Open [My Computer] from the [start] menu.
3. Double-click [Removable Disk].
4. Double-click the “VOICE” folder.
5. Double-click the folder (A-D) that contains the file that you wish to load to your computer.
6. Copy the file to the desired location.

Macintosh:


1. Connect the recorder to a computer.
2. Double-click the drive icon (“NO NAME”) of the recorder on the desktop.
3. Double-click “VOICE” folder.
4. Double-click the folder (A-D) that contains the file that you wish to load to your computer.
5. Copy the file to the desired location.

Hint:

- For detailed information about the folders, see page 13.

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 right message, remove the USB cable.

**Macintosh:**

1. Drag and drop the drive icon (“NO NAME”) of the recorder on the desktop to the Trash.
2. After the drive icon (“NO NAME”) disappears from the desktop, remove the USB cable.

Recharging the enloop

WARNING

- Recharge the enloop at an ambient temperature of between 5 and 35 degrees Celsius (41 and 95 degrees Fahrenheit).
- Be sure to close the battery cover before you start recharging.

1. Make sure that the enloop battery is inserted in the recorder.

DANGER

- Do not attempt the recharge operation with an alkaline or other battery installed inside. Otherwise, the battery liquid may leak or the recorder may malfunction.

2. From the main screen, press and hold down the [MENU/ENTER] button for at least two seconds to access the [COMMON MENU] → [BATTERY SET], then make sure that “enloop” is selected.



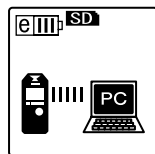
3. Connect the recorder to a computer (page 23).

4. Make sure that the LCD screen on the recorder indicates that the unit is connected to the computer, then set the [HOLD/CHARGE] switch to [HOLD ▷].

The LED lights up green, and recharging starts.

To cancel the recharge operation, revert the [HOLD/CHARGE] switch setting.

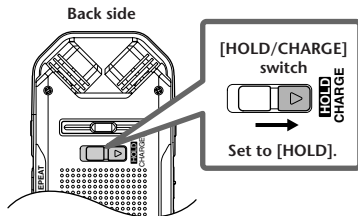
When recharging is complete, the LED changes from green to red.



Note:

- Recharging a completely exhausted enloop battery takes approximately 220 minutes.
- You can recharge an enloop battery during data transfer. However, the battery may be exhausted more quickly.

5. Disconnect the recorder from your computer.



About the accessory disk

SPECIAL NOTICE

- The software included in the accessory disk and the copyrights thereof are under exclusive ownership by Steinberg Media Technologies GmbH.
- Use of the software and this manual is governed by the license agreement which the purchaser fully agrees to upon breaking the seal of the software packaging. (Please read carefully the Software Licensing Agreement at the end of this manual before installing the application.)
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- This disk is NOT for audio/visual purpose. Do not attempt to play the disk on an audio/visual CD/DVD player. Doing so may result in irreparable damage to your player.
- For information about the minimum system requirements and latest information of the software in the disk, check the web site below.
→<<http://www.yamahasynt.com/>>
- Note that Yamaha does not offer technical support for the DAW software in the accessory disk.

About the DAW software in the accessory disk

The accessory disk contains DAW software both for Windows and Macintosh.

NOTE:

- Make sure to install DAW software under the "Administrator" account.
- In order to have continuous use of the DAW software in the accessory disk, 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.
- If you are using a Macintosh computer, double-click the "****.mpkg" file to start installation.

For information about the minimum system requirements and latest information on the software in the disk, check the web site below.

<<http://www.yamahasynt.com/>>

About software support

Support for the DAW software in the accessory disk is provided by Steinberg on its website at the following address.

<http://www.steinberg.net>

You can visit the Steinberg site also via the Help menu of the included DAW software. (The Help menu also includes the PDF manual and other information on the software.)

For information on importing audio files from the recorder to the included DAW software, please refer to the Reference Manual.

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