

This instruction manual offers reference information using a matrix system. For example, information about "Recording" appears in the manual section where column 2 and row c meet (indicated as → page 2-c).

Regarding Zoom recording
Zoom recording is not available when the recording mode is stereo or when recording to the dictation folder.

Dear customer
Thank you for purchasing this product. For optimum performance and safety, please read these instructions carefully. Before connecting, operating or adjusting this product, please read the instructions completely. Please keep this manual for future reference.

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Panasonic®

Operating Instructions IC Recorder

Model No. RR-US500

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Preparation 1 Inserting and charging batteries

■ Inserting batteries

● Dry cell batteries (not included) can also be used.
● Replace the batteries within 30 seconds to preserve the settings. (Recordings remain intact.)
● The clock, however, will stop until the batteries have been inserted.

The battery indicator

(Displayed during recording/playback)

Charge or replace the batteries

● When "LO" is displayed, charge or replace the batteries.
● When dry cell batteries are being used and the unit is inserted into recharging cradle, the battery indicator will flash.

■ Charging batteries

Upon purchasing, charge once before initial use.

- 1 Connect the AC adaptor to recharging cradle
- 2 Insert the AC adaptor plug into a household AC outlet
- 3 Insert the unit into the recharging cradle

● Charging takes approx. 3 hours.
● Batteries do not need to be fully depleted before recharging.
● Batteries charge the consumed portion only when you operate and charge the unit at the same time.
● It is not unusual for the batteries to be hot after charging.

When the unit is off
Insert the unit firmly so that the pin on the charging unit ② inserts into the USB jack ② (→ page 4-a).

Recharging cradle (included)
Household AC outlet (100 V to 240 V and 50/60 Hz)
DC IN 4.8 V
AC adaptor (included)
The charge lamp is lit while charging. The lamp goes out when charging is completed.

Preparation 2 Setting the time

● When the year is flashing (e.g. 2006 on the display), begin from step 4 below.
● The clock returns to standby when you perform no time setting operation for 30 seconds. If this happens restart setting the time.

- 1 Release hold
- 2 Display the menu
- 3 Select "Yr Rr"
- 4 Set the time

① Year 2006 (Select) (Enter)
② Month 12 (Select) (Enter)
③ Day 15 (Select) (Enter)
④ Time display (12/24H) 12:15 (Select) (Enter)
⑤ Time 9:00 (Select) (Enter)

You can set the year, month, day and time quickly by pressing and holding [←→].

● The clock operates with the monthly error margin of +/- 60 seconds at room temperature.

Part names

■ Main unit

- 1 Zoom
- 2 Erase
- 3 Repeat
- 4 External microphone jack
- 5 Play, stop/enter
- 6 Built-in microphone
- 7 Recording indicator
- 8 Display
- 9 Forward, backward/select
- 10 Recording/pause
- 11 Stop
- 12 Folder
- 13 Menu (Equalizer)
- 14 Volume
- 15 Headphone/earphone jack
- 16 Handstrap hole (Handstrap not included)
- 17 Speaker
- 18 Zoom microphone (dented area)
- 19 Hold
- 20 Battery cover

■ Recharging cradle

- 21 USB pin ("Charging batteries" → page 2-a)
- 22 Charge lamp
- 23 USB jack
- 24 DC IN 4.8 V jack

■ Display

Recording mode (Stereo, monaural/tone)
Recording level/Remaining memory
Folder indicator
File
Recording (Play) elapsed time/ (In standby mode: current time)

List of menus

Press [MENU] to display a menu. Press [STOP] to stop an operation midway/cancel the setting. If an operation is not started within 30 seconds, the display returns to the standby mode.

(While stopped)

Press [←→] to select, and press [▶/■] to enter

Remaining recording time (→ page 5-b) Microphone sensitivity #1 (→ page 3-c) Search-speed control (→ page 4-d) Recording mode #1 (→ page 2-c)

Setting the time (→ page 3-a) Confirmation beep (→ page 4-d) File lock #2 (→ page 3-d) Timer recording #3 (→ page 4-b) VAS (→ page 4-b)

※ 1 Displayed only when a meeting recording folder (A through D) is selected
※ 2 Displayed only when there is a recorded file
※ 3 Displayed only when the clock is set

THE FOLLOWING APPLIES ONLY IN THE U.S.A.

FCC Note:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Any unauthorized changes or modifications to this equipment would void the user's authority to operate this device.

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.

Responsible Party:
Panasonic Corporation of North America
One Panasonic Way
Secaucus, NJ 07094
Telephone No.: 1-800-211-7262

This statement is applied to only Canada
This Class B digital apparatus complies with Canadian ICES-003.

Before use

Hint 1

Before operating, switch hold off, when finished, switch hold on

Hold (Slide up)
Hold off (Slide down)

Hint 2

Choose a recording method that best suits the situation

MEETING RECORDING
Using different combinations of recording modes and microphone sensitivity levels, you can adjust audio quality according to recording situations.

MEETING FOLDERS
There are 4 folders, A through D, for meeting recording use.
● A maximum of 99 files can be stored in each folder.

Dictation recording
MEETING RECORDING
Dictation recording

Dictation recording
As the dictation recording settings are all factory-set, dictation can be recorded quickly and simply. Use this mode when computer voice recognition software is to be used.

To record a low-level sound source...

- Place the unit on a desk etc. closer to the source
- Use "LO" microphone sensitivity for close proximity hand-held recording

■ Possible recording settings when using meeting recording

Recording settings	Microphone sensitivity	HI (Distance)	LO (Close)
Stereo		A large-scale meeting etc.	A language lesson etc.
Monaural Zoom recording [OFF]		A normal meeting etc.	A meeting held in a small room etc.
Monaural Zoom recording [ON]		A lesson, lecture etc.	An interview during a meeting etc.

■ Recording mode and approximate total recording time of all folders

	Stereo	Monaural
HQ (High quality)	10 hours 10 minutes	19 hours 30 minutes
FQ (Fine quality)	19 hours 30 minutes	39 hours
SP (Standard play)	33 hours 20 minutes	66 hours 50 minutes

● The minimum memory unit used may cause total recording times to become slightly shorter than those listed in the table. (See "Confirming the remaining time" → page 5-b)

Other recording methods

Preventing unnecessary recording

Recording is automatically paused if there is no sound for more than 3 seconds (approximately).

- 1 Press to display a menu
- 2 Select "VAS"
- 3 Select "OFF"
- 4 Record (→ page 2-c)

"V" flashes when the VAS function is active.

■ To turn the function off: Select "OFF" in step 3.
■ Turn the function off when recording important files.

Timer recording

Timer recording can be set to make 1 recording at a specified time. After setting the timer, you can keep the unit on standby by setting hold on (→ page 2-b).

- 1 Press to display a menu
- 2 Select "rEE"
- 3 Select "0n"
- 4 Set the time

① Start time 10:00 (Select) (Enter)
② Finish time 10:30 (Select) (Enter)

■ You can stop timer recording in progress, but you cannot bring it to a pause.
■ To confirm the recording start and finish time, press [▶/■] in step 2.
■ To cancel the timer: Select "OFF" in step 3.

■ To record a distant voice (Zoom recording)

Zoom recording enables you to clearly record sounds coming from a direction towards the built-in microphone. It is suitable for recording lectures and interviews. Set the recording mode to monaural when recording to a meeting folder (→ page 2-c).

■ Do not block the zoom microphone (→ page 4-a) intentionally with your fingers or other items.
● Zoom recording can be switched on and off even when hold is switched on.
● The zoom recording function is cancelled when recording to the dictation folder, when the recording mode is stereo, or when using an external microphone.

■ Confirming the remaining time

Displayed when a menu screen is selected.

Press [MENU] (While recording or on standby) Remaining recording time in the current recording mode

■ To return to the original screen: While stopped: Press [STOP]. While recording: Press [MENU (EQ)] again.
● Remaining recording time also appears when it becomes very short.

■ Recording through an external microphone

Connect stereo earphones (not included). Plug type: ø 3.5 mm (1/8 in.) stereo mini plug

Insert securely

Plug type: ø 3.5 mm (1/8 in.) stereo mini plug
● When you attach an external microphone, the built-in microphone automatically goes off.

Supplied accessories

Please check and identify the supplied accessories.
Use numbers indicated in parentheses when asking for replacement parts.
(Product numbers correct as of January 2006. These may be subject to change.)

Only for the U.S.A.: To order accessories, refer to "Accessory Purchases" (→ page 10-b).
Only for Canada: To order accessories, call the dealer from whom you have made your purchase.

- | | |
|--|--|
| For the U.S.A. | For Canada |
| <input type="checkbox"/> 1 CD-ROM (Voice Editing Ver.1.0 Premium Edition) | <input type="checkbox"/> 2 CD-ROM (Voice Editing Ver.1.0 Premium Edition) |
| <input type="checkbox"/> 1 USB cable [K1HA08CD0007] | <input type="checkbox"/> 1 USB cable [K1HA08CD0007] |
| <input type="checkbox"/> 1 AC adaptor [RFA2761] | <input type="checkbox"/> 1 AC adaptor [RFA2761] |
| <input type="checkbox"/> 1 Recharging cradle [RFE0187] | <input type="checkbox"/> 1 Recharging cradle [RFE0187] |
| <input type="checkbox"/> 1 Dictation cord [K2KC2CA00003] | <input type="checkbox"/> 1 Dictation cord [K2KC2CA00003] |
| <input type="checkbox"/> 2 AAA-type nickel-metal hydride rechargeable batteries [HHR-4AGA/BA1] (Battery case: RXQ0449) | <input type="checkbox"/> 2 AAA-type nickel-metal hydride rechargeable batteries [HHR-4AGA/BA1] (Battery case: RXQ0449) |

- Please choose [HHR-4AGA/2B] when you need to buy rechargeable batteries.
- The included AC adaptor is for use with this unit only. Do not use it with other equipment.
- Do not use an AC adaptor from other equipment.

Recording

Meeting recording

Using different combinations of recording modes and microphone sensitivity levels, you can adjust audio quality according to recording situations.

- Select the folder**
Press [FOLDER] to display a menu.
Press [A], [B], [C], or [D] to select a folder.
Example: Meeting folder
- Select the recording mode**
Press [ST], [HQ], [FQ], or [SP] to select a mode.
Example: ST (Stereo)
- Select the microphone sensitivity**
Press [HI] or [LO] to select a sensitivity level.
Example: HI (for long distances)

Dictation recording

As the dictation recording settings are all factory-set, dictation can be recorded quickly and simply. Use this mode when computer voice recognition software is to be used.

Recording mode: (Monaural) HQ

Microphone sensitivity level: Dictation recording level

Other recording methods (→ page 4-b)

Other play methods

To play one segment of a file repeatedly (A-B repeat play)

1 Start playing the file selected for repeated playback ("Playing" → page 2-d)

2 Set the start point (A)

3 Set the end point (B)

● If only the start point (A) is set and play continues until the end of the file, that point automatically becomes the end point (B) and A-B repeat will continue to play this sequence.

Other repeat and continuous play functions

Each time you press [REPEAT]:

- File repeat play:** Plays 1 file repeatedly.
- Continuous play of 1 folder:** Plays all files in the folder once, in order.
- Folder repeat play:** Plays all files in the folder repeatedly, in order.

Cancellation (normal playback)

● Regardless of the current play mode, A-B repeat takes priority if selected.

Changing the playback speed

Playback is available at 5 different speeds.

Press [SPEED] to select a playback speed.

● The display bar flashes when listening at a playback speed other than "x1" (normal).

● To return to the normal playback speed: Select "x1" in the above operation.

Listening with earphones

Insert securely

Connect stereo earphones (not included). Plug type: ø 3.5 mm (1/8 in.) stereo mini plug

● The speaker is automatically turned off when earphones are used.

Instruction flow chart

Recording → This unit

Playback → This unit

Connecting IC Recorder to a computer for editing/saving

USB cable (included)
Dictation cord (included)
Computer

These Operating Instructions

For IC Recorder operation... For instructions on connecting IC Recorder to a computer, installing instructions etc...
For Voice Editing instructions...
Voice Editing Ver.1.0 Operating Instructions (PDF file)

Playing

- Select the folder**
Press [FOLDER] to display a menu. Press [A]-[D] to select a folder.
- Select the file**
Press [ENTER] to display a menu. Press [1]-[9] to select a file.
- Play**
Press [PLAY] to start playing.

● While a file is being played

- Backward:** Press button once and the file starts from beginning. Press button twice and the previous file starts playing (if the file has been playing for less than 3 seconds, one press will start playing of the previous file.)
- Forward:** Press button once and the file starts from beginning. Press button twice and the next file starts playing (if the file has been playing for less than 3 seconds, one press will start playing of the next file.)
- Stop/start playing again:** Press button once and the file starts from beginning. Press button twice and the previous file starts playing (if the file has been playing for less than 3 seconds, one press will start playing of the previous file.)

※ You can adjust speeds for moving forward/backward. ("Setting the speed for moving forward/backward" → page 4-c)

Organizing files (Deleting/Moving/Protecting)

Deleting

- Press [DELETE]
- Select a file or folder
- Delete

Moving

Preparation: Play the file to be moved

- Press [MOVE]
- Select the destination folder
- Move

Protecting

Preparation: Select the folder that holds the file to be protected

- Press to display a menu
- Select "P"
- Select the file you wish to protect

● To cancel protection: Select the file you wish to unprotect in step 3.

Other functions

Cancelling the operation beep

- Press to display a menu
- Select "bEEP"
- Select "OFF"

Preventing accidental button presses (HOLD)

In order to prevent accidental operations while recording or while stopped, button operations are ignored.

Slide [HOLD] down.

Setting the speed for moving forward/backward (→ page 2-d)

- Press to display a menu
- Select "SEARCH"
- Select "LO" or "HI"

Recording to a cassette tape/Recording from a cassette tape

Read the operating instructions for the connected equipment.

Recording to a cassette tape recorder etc.

Select the file to copy and play

Stereo mini plug, Stereo mini plug, Stereo mini plug, Monoaural mini plug

Recording from a cassette tape recorder etc.

Start playing

Headphone jack, Stereo mini plug, Monoaural mini plug, Stereo mini plug

● The recorded sound may differ from the original recording.
● Adjust the recording volume on the source to the desired level.

