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Panasonic Consumer Electronics Company, **Division of Panasonic Corporation of North**

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Panasonic

Operating Instructions IC Recorder

Model No. RR-US500

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.

Panasonic Puerto Rico, Inc. Ave. 65 de Infantería, Km. 9.5 San Gabriel Industrial Park, Carolina, Puerto Rico 00985

Panasonic Canada Inc. 5770 Ambler Drive, Mississauga, Ontario L4W 2T3 http://www.panasonic.com www.panasonic.ca

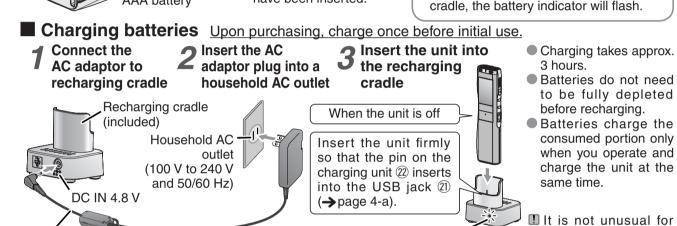
H0106WM1026

■ Inserting batteries

(Displayed during recording/playback) Dry cell batteries (not included) can also be used. Replace the batteries within 30 seconds to preserve the settings. (Recordings (Charge or replace the batteries remain intact.) The clock, however, will When dry cell batteries are being used and the unit is inserted into recharging have been inserted.

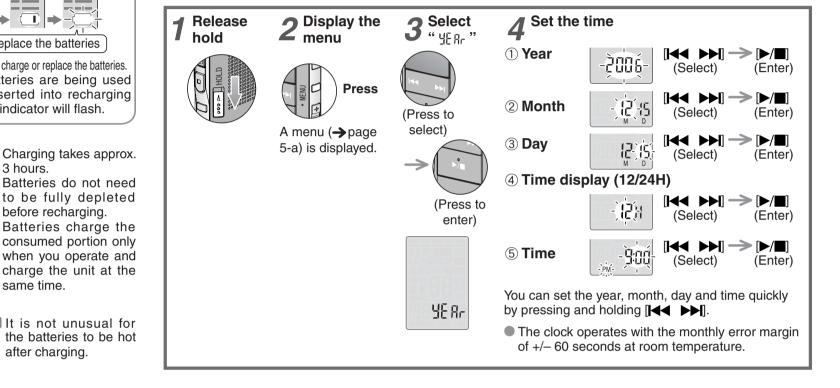
 \cdot The battery indicator -

Inserting and charging batteries

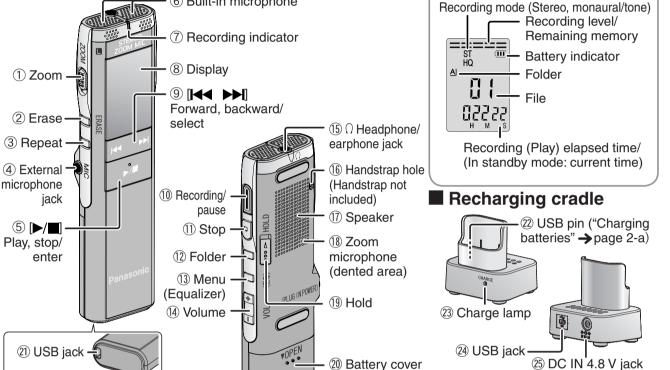


Preparation 2 Setting the time

lacktriangle When the year is flashing (e.g. 2005 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.

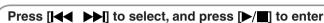


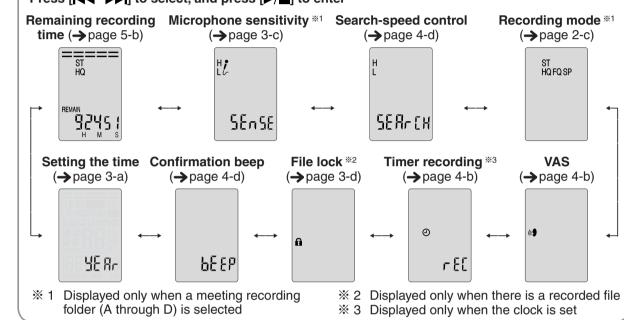
Part names ■ Main unit Display ─ ⑥ Built-in microphone Recording mode (Stereo, monaural/tone) Recording level/ (While stopped) Remaining memory 7) Recording indicator Battery indicator Folder **-** 9 [**|← →→**]



List of menus

Press to Press [STOP] to stop an operation midway/cancel the setting. the standby mode.





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 nterference 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

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.

tesponsible 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

AC adaptor (included)

fore operatir switch hold off switch hold on Hold (Slide up) Hold off (Slide down)

 ${\mathbb D}\mathsf{Acc}$ idental unit operation is prevente

②The display turns off and the battery power is saved.

Unfinished settings will be cancelled if you

stop setting operations for 30 seconds in the

menu mode and 10 seconds in other modes.

In this case, please repeat from the beginning.

By switching hold on...

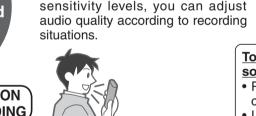
There is no power button.

Choose a the situation DICTATION

The charge lamp is lit while charging.

The lamp goes out when charging is completed.

Using different combinations of recording modes and microphone



MEETING

RECORDING

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.

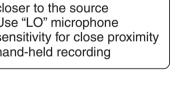
after charging.

closer to the source Use "LO" microphone sensitivity for close proximity hand-held recording

■ Possible recording settings when using meeting recording

Microphone sensitivity Recording settings		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.

To record a low-level sound Place the unit on a desk etc.



■ Recording mode and approximate total recording time of all folders

MEETING There are 4 folders, A through D,

for meeting recording use.

recording

Recording

A maximum of 99 files can be stored in each folder.

contents

	Stereo	Monaural	unit used may cause total recording times
HQ (High quality)	10 hours 10 minutes	19 hours 30 minutes	to become slightly shorter than those
FQ (Fine quality)	19 hours 30 minutes	39 hours	listed in the table. (See "Confirming
SP (Standard play)	33 hours 20 minutes	66 hours 50 minutes	the remaining time" →page 5-b)

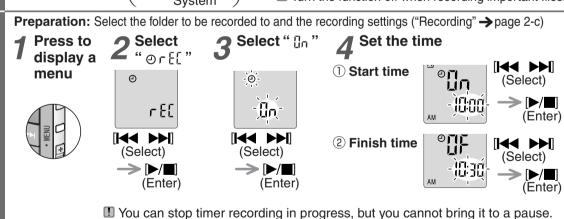
Dictation recording recording Recording automatically pa

there is no soun ore than 3 sec DICTATION **FOLDER**

Timer

ng the tim setting hold page 2-b).

Other recording methods Select " []n " Press to Record display a (**→**page 2-c) " () " flashes when (Select) the VAS function is active. VAS: Voice To turn the function off: Select " @FF" in step 3. Turn the function off when recording important files



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

■ To record a distant voice (Zoom recording) Confirming the remaining time Zoom recording enables you to clearly record Displayed when $\frac{=}{ST}$ sounds coming from a direction towards the built-in Press a menu screen microphone. It is suitable for recording lectures and

is selected. interviews. Set the recording mode to monaural Remaining recording | REMAIN | 19545 when recording to <u>a meeting folder</u> (→ page 2-c). (While recording or time in the current on standby) recording mode

"ZOOM" is displayed when zoom To return to the original screen: While stopped; Press [STOP]. ■ Do not block the zoom microphone (→page While recording; Press [MENU (EQ)] again. 4-a) intentionally with your fingers or other items Remaining recording time also appears when Zoom recording can be switched on and off it becomes very short.

recording to the dictation folder, when the recording mode is stereo, or when using an external microphone. Listening to the recording in progress



recording is being used.

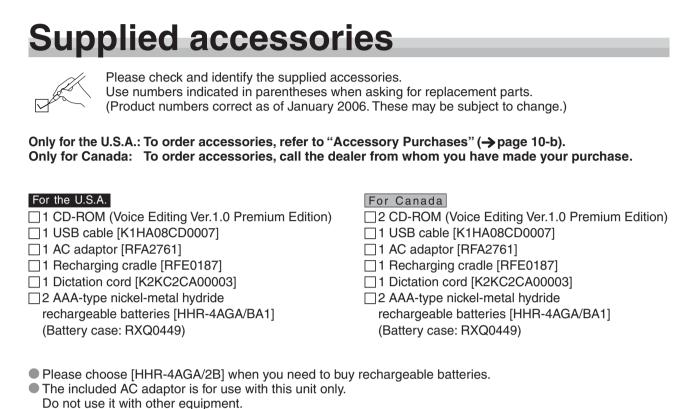
The zoom recording function is cancelled when

Slide up

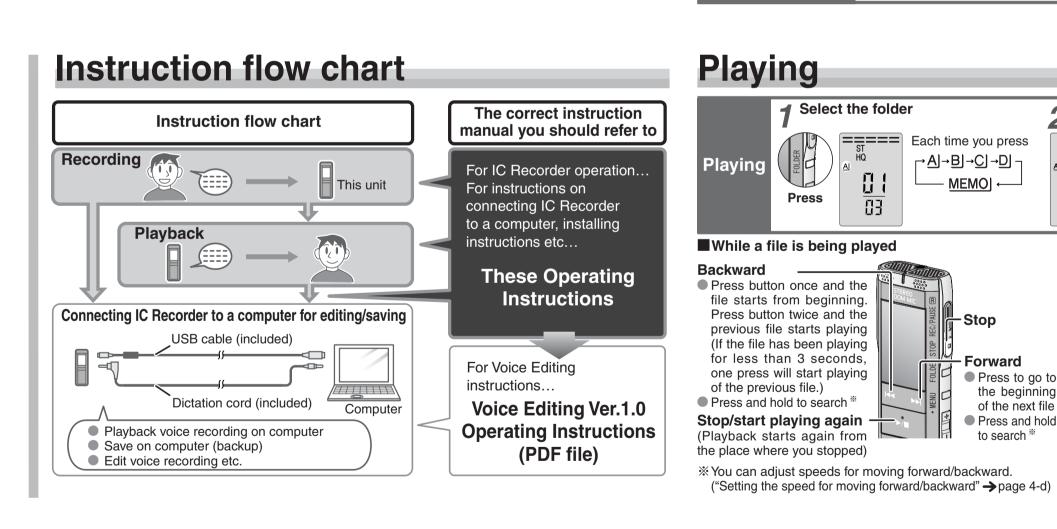
even when hold is switched on.

Recording through an external microphone (not included)

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.



Do not use an AC adaptor from other equipment



Select the folder

Press

==== Each time you press

→A→B→CJ→D-

Press to go to

the beginning

of the next file

Press and hold

Select the file

(While playing)

After selecting,

time of recording is displayed.

■To adjust the volume

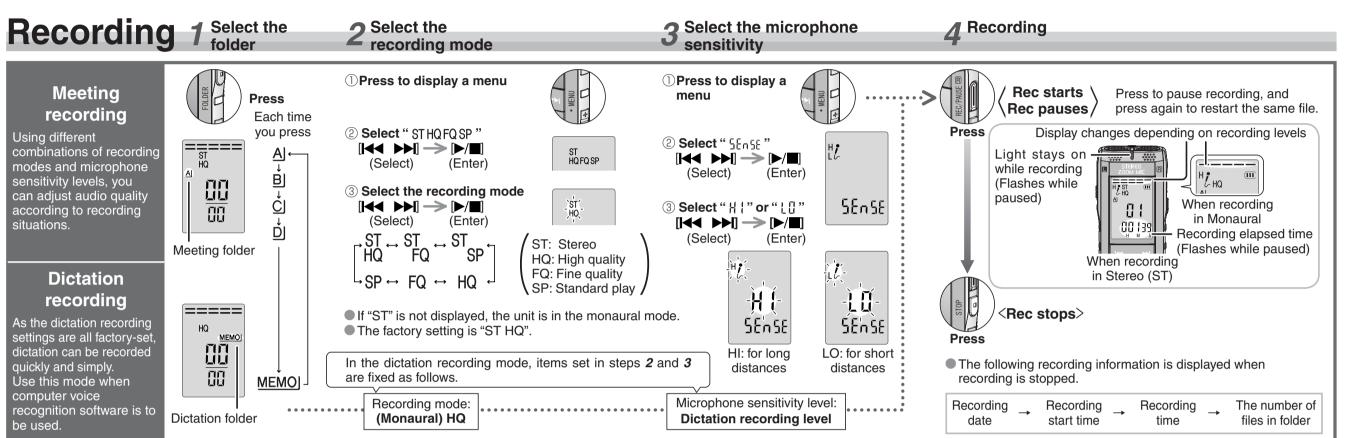
) Decrease

Press and hold

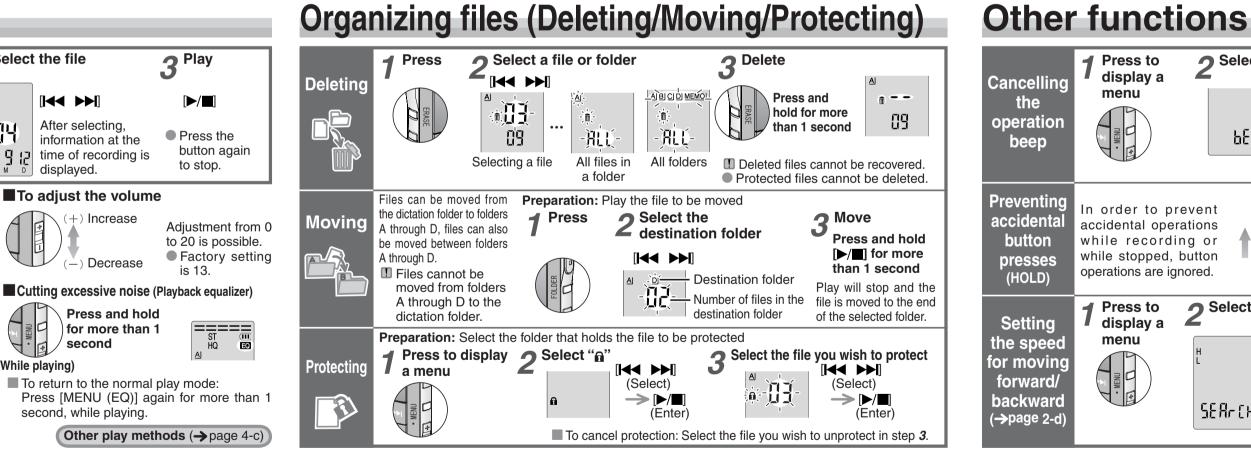
To return to the normal play mode:

second, while playing.

information at the



Other recording methods (→ page 4-b)



Other play methods

display a

n order to prevent

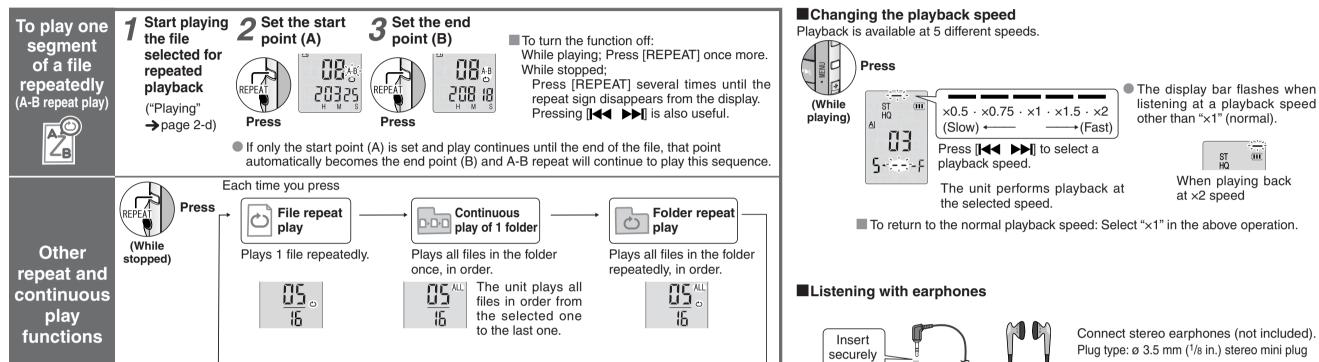
ccidental operations

while recording or

while stopped, button

operations are ignored.

display a



Cancellation (normal playback) +

To use the operation beep:

Select " []n " in step 3.

" հը քժ" is displayed. 📗 To release:

slowly with sounds.

■ Factory setting is " ¡ ☐ ".

quickly without sounds.

(Select)

3 Select " (JFF "

Select " ৳ΕΕΡ '

6EEP

 \rightarrow [\triangleright / \blacksquare]

→[►/■]

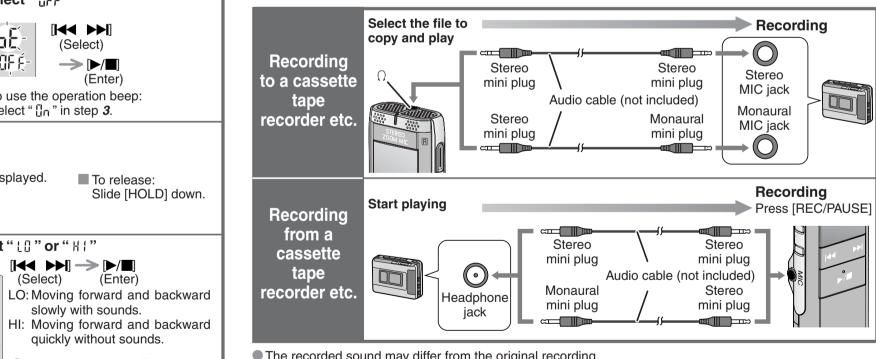
Regardless of the current play mode, A-B repeat takes priority if selected



The speaker is automatically turned off

when earphones are used.





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

Using the unit with a computer (Save and edit sound files you have recorded with the unit.)

■Installing Voice Editing

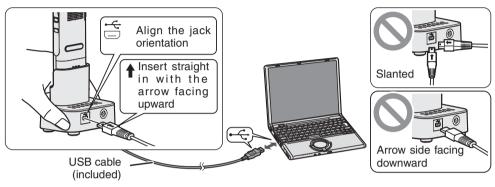
Start Windows.

For the U.S.A. Insert the included CD-ROM into your computer's CD-ROM drive.

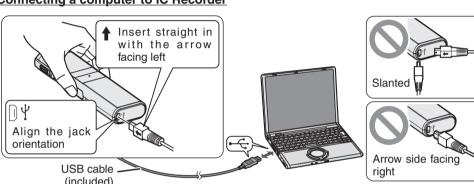
- For Canada Insert the included CD-ROM #1 into your computer's CD-ROM drive. The program installer starts automatically.
- When the installer does not automatically start
- ① From the "Start" menu click "Run'
- ② Type " * :\Launcher\VEdV1Launcher.exe" and click "OK".
- ※ is the CD-ROM drive ID. Click "Voice Editing Ver.1.0".
- Installation starts.
- Follow on-screen instructions for any subsequent operations
- The voice recognition engine and text to speech/Translation engine should start installing while Voice Editing is being installed. (Alternatively, you can install them afterwards.) For Canada
- Change the CD-ROM #1 for #2 according to the message that will appear in the middle of installation. Installation continues automatically.
- Change the CD-ROM #2 for #1 according to the message that will appear when the installation of #2 is complete. Click "Finish" from the InstallShield Wizard Complete screen.
- Selecting "Yes, I want to restart my computer now" automatically re-starts the computer and completes installation.

■ Connecting this unit to a computer with the USB cable

This unit cannot be operated. Connecting a computer to the recharging cradle housing IC Recorder



Connecting a computer to IC Recorder



Connect one IC Recorder only while using Voice Editing. This software does not support simultaneous use of multiple IC recorders.

When connected to a computer, " P[" appears. When transferring data, " P[" flashes. Do not disconnect the USB cable while this is flashing.

Use only the included USB cable with a ferrite core when connecting to computer.

■Starting Voice Editing

Double-click the "Voice Editing" icon on the desktop. After double clicking, follow on-screen instructions.



■Using the operating instructions (PDF file)

In the Windows "Start" menu, click "All Programs" -> "Voice Editing" -> "Voice Editing Operating Instructions" or in the "Help (H)" menu in the Voice Editing main screen, click "Operating Instructions (H)

- If DirectX 8.1 or later is not installed on your computer, follow instructions that appear on-screen. • Adobe Acrobat Reader is necessary to view the operating instructions (PDF file). If Adobe Acrobat Reader is not installed on your computer, it is automatically installed at the same time as Voice Editing. Depending on the computer, an Adobe Acrobat Reader restart message may appear. Ignore this and continue installing Voice
- Uninstall the following before installing Voice Editing Ver.1.0 (included).
- You cannot install two versions of Voice software on the same computer Voice Editing Ver.1.0 Professional Edition
- Voice Editing Ver.1.0 Standard Edition
- Voice Editor 3 Voice Editor 2
- Previous versions of Voice Editing software (for Panasonic IC Recorder RR-US360/RR-US361)
- SD Voice Editor Ver.1.x
- Other versions of Voice Editing Ver.1.0
- Sound files made with previous versions will remain intact, but you should back them up to be sure.

You will need an IBM PC/AT computer with the following attributes or equivalent, and the following software and hardware in order to use this application.

- Microsoft® Windows® 98 Second Edition Microsoft® Windows® Millennium Edition Microsoft® Windows® 2000 Professional
 - Microsoft® Windows® XP Home Edition/Professional **
- **Only available when the user is logged in as the system administrator. Cannot be used by multiple users.
- (Windows® 2000 / Windows® XP only) • This software is not compatible with Microsoft Windows® 3.1, Windows® 95, Windows® 98 (except for Windows®
- 98SE) and Windows NT®. • Operation is not guaranteed on an upgraded OS.
- This software is not Macintosh compatible.
 - CPU: Windows® 98 SE / Windows® Me: Intel® Pentium® II 333 MHz or higher Windows® 2000 / Windows® XP: Intel® Pentium® III 500 MHz or higher
- RAM: Windows® 98 SE / Windows® Me: 128 MB or more Windows® 2000 / Windows® XP: 256 MB or more

Free hard disk space:

100 MB or more

- · Additional free hard disk space may be necessary depending on the Windows® version and voice file being used.
- Additional free space is required to install Acrobat® Reader®, DirectX® 9.0c, and voice recognition/text-to-speech/translation engines (all included), as well as "Voice Editing Launcher" (Office Add-In and Internet Explorer Contextual Menu Add-In).
- · Additional free space is temporarily required for sound waveform display, voice recognition, text-to-speech conversion, translation, sound recording, CD-R recording (Windows® XP only), and "Voice Editing Launcher".
- Installing all Voice Editing functions and engines for all languages requires approximately 650 MB (For the U.S.A.) or 1.5 GB (For Canada) of free space.
- CD-ROM drive (for installation
- CD-R/RW drive (required to use the CD-R writing function in Windows® XP) Sound: Windows compatible sound device
- Display: High Color (16 bit) or more. Desktop resolution of 800 × 600 pixels or more. $(1024 \times 768 \text{ pixels or more recommended})$
- Interface: USB port (Operation cannot be guaranteed if you use a USB hub or extension cable.)

Other requirements Mouse or equivalent pointing device

- The following hardware limitations should be noted.
- This software is not compatible with a multi-CPU environment
- This software is not compatible with a multi-boot environment • This software may not run properly on 64-bit computers.
- Even if the system requirements mentioned in these operating instructions are fulfilled, some personal computers cannot be used.
- This software may not run properly on home-made computers.
- The following limitations should be noted
- Voice recognition, text-to-speech, and translation engines are installed on the same drive as the operating system (usually the C drive).
- The operating system must support the languages of the voice recognition, text-to-speech, and translation
- · Before voice recognition, the speaker's voice must be registered in a training process. Sound files of speakers whose voices have not been registered in training cannot be converted to text correctly.

Necessary software:

- DirectX® 8.1 or later / Internet Explorer 6.0 or later
- Microsoft Office 2000/XP/2003 (support for Word, Excel, and PowerPoint is required when using the Office Add-in)
- · Microsoft and its logo as well as Windows, Windows NT and DirectX are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries.
- IBM and PC/AT are registered trademarks of International Business Machines Corporation of the U.S. • Intel, Pentium and Celeron are registered trademarks or trademarks of Intel Corporation in the United States and other countries
- Nuance Communications, the Nuance Communications logo, and RealSpeak Solo are trademarks or registered trademarks of Nuance Communications Inc. or its affiliates in the United States and/or other countries.
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- or trademarks of the respective developer companies. Note that the "TM" mark and "®" mark do not appear in this document.

For Canada FineSpeech(TM)

Recording and operating problems may occur on some computer systems. Please note that Panasonic and Panasonic dealers cannot be held liable for any lost audio data or other

direct or indirect damage except in cases of intentional or gross negligence.

Translation (interpreter) results are merely one example of translation (interpreter), and accuracy cannot be guaranteed. We cannot be liable for the translation (interpreter) results in any way. Additionally, please refrain from publishing, selling, or distributing unedited translation (interpreter) results, which may violate copyright law.

Maintenance

Do not use such solvents as benzine, paint thinner and alcohol for cleaning.

- Remove rechargeable batteries and unplug the AC adaptor from the outlet in advance. Solvents may cause casing to deform and coating to go off.
- Wipe dust and fingerprints off using a soft, dry cloth. Soak the cloth in water, wring it thoroughly and use it for cleaning when the unit is very dirty. Wipe moisture off with a dry cloth after removing tough dirt.
- Do not use kitchen detergents or chemically-enhanced cleaning cloths.

-If you see this symbol-

Information on Disposal in other Countries outside the European Union

This symbol is only valid in the European Union. If you wish to discard this product, please contact your local authorities or dealer and ask for the correct method of disposal.

Troubleshooting Guide

Before requesting service, make the following checks. If you are in doubt about some of the check points, or if the remedies indicated in the chart do not solve the problem, refer to "Customer Services Directory" (→page 10-b) if you reside in the U.S.A., or refer to "Product information" (→ page 9-d) if you reside in Canada.

Symptom	Checkpoints		
"U01" appears on the display.	 The battery has run down. Set the unit in and out of the recharging cradle several times. (→ page 2-a) 		
No operation.	 Make sure the batteries are correctly inserted. You cannot operate when the unit is connected to a compute (→page 6-a) 		
Cannot recharge the batteries.	Recharging may take dozens of seconds to start when you use rechargeable batteries that had not been used for a long time.		
Playback does not last long despite recharging.	When playback using recharged batteries ends extremely fast, it means the battery is at the end of life. (Roughly speaking, rechargeable batteries can be refreshed about 300 times.)		
Operation is not possible when "hold" appears on the display.	• The hold function is on. (→page 4-d)		
"2006", "12:00" flashes.	• Set the time. (→page 3-a)		
"EE:EE" is displayed.	This can occur after repeatedly recording and deleting files.		
Available recording time does not increase correspondingly after deleting files.	-Unlock all your files, then delete all folders to remedy this. (→page 3-d)		
There is no sound from the earphone or it is difficult to hear or noisy.	Ensure the plug is inserted firmly. Wipe the plug clean.		
Recording stops.	VAS may be functioning. (→ page 4-b)		
"" appears instead of the recording date.	• Set the time. (→ page 3-a)		
Playback speed is too fast or slow.	• Set the play speed to normal. (→page 5-c)		
"FULL" appears.	 There are 99 files in the folder. There is no remaining recording time. Delete unneeded files. (-> page 3-d) 		
No sound from the speaker.	There is no sound when you have connected earphones.		
Cannot delete a file or folder.	• The file is protected. (→ page 3-d)		
	The folder is already empty.		
Cannot move a file.	You cannot move files to folders that already contain 99 files. You cannot move files from A through D folder to the dictation folder.		
A recording disappeared.	Recordings can disappear if the unit receives a shock (e.g. it is dropped), or the batteries go out during recording.		
Cannot set a file to move.	Settings for moving a file are cancelled if you adjust the playback speed while making the settings.		
Cannot set timer recording.	 The timer covers 24 hours from the present time only. You cannot set a recording period longer than 24 hours using the timer. Set the time. (→ page 3-a) You cannot set the timer if there is less than 1 minute of available recording time. 		
Timer recording does not work.	 The settings are cancelled if the batteries are removed and the clock settings are cleared. Timer recording does not work if the unit is used for playback or another operation at a set time. 		
Cannot use a battery that can be used on other equipment.	This unit considers the battery as empty even if there is actually power left in it. This is to preserve the clock and other memory items.		
Sound is distorted.	Non-voice recordings such as music on CDs may become distorted in playback.		
Sound is distorted when listening to the	Lower the volume. Moon the starge corresponds and the migraphone you are using congrete.		

use the unit with the AC adaptor. • The battery indicator flashes during recording and playbacl when you use dry cell batteries. • Move the mobile telephone away from this unit when you use the

	two in the same area.
/oice Editing does not start or does	• Make sure that "PC" is on this unit's display, and that this unit is
not work correctly.	recognized as a drive in Voice Editing. Set the USB cable in and
	out of IC Recorder's USB jack several times when the unit is not
	recognized as a drive.
	• The connection may not work if you connect via a USB hub or a

recorded audio with the stereo earphones. • Keep the stereo earphones and the microphone you are using separate

The battery indicator flashes when you | • Make sure batteries used are the specified type.

		USB extension cable.			
	I used the "Dictation cord" supplied	• Adjust the volume on the IC Recorder. Depending on you			
	with the unit, but microphone	computer, you may also be able to improve the sensitivity b			
	sensitivity did not improve. Computer	reversing the "Straight mini plug" and the "L-shaped mini plug			
	voice recognition level is still low.	connections.			
Cannot successfully convert audio to		• Audio files in stereo contain sounds simultaneously made in th			
	text with Voice Editing.	surroundings in addition to the speaker's voice. These sound			

cause voice recognition software to operate poorly. You should use IC Recorder in the dictation recording mode. You can make better recordings for voice recognition (monaural recordings) in this recording mode (>page 2-c). (Refer to the Voice Editing operating instructions (PDF file).)

Specifications

Power requirement:	DC 2.4 V (2 AAA size rechargeable batteries)
•	DC 3.0 V (2 AAA size/LR03 batteries)
AC adaptor input:	AC 100 V to 240 V 50/60 Hz
Power output:	350 mW (max.)
Frequency response:	320 Hz to 5,300 Hz (HQ mode)
	310 Hz to 3,500 Hz (FQ/SP mode)
S/N:	35 dB (Stereo HQ mode)
Output jack:	Earphone, \emptyset 3.5 mm ($^{1}/_{8}$ in.); 0.6 mW + 0.6 mW 16 Ω
Input jack:	Mic, ø 3.5 mm (1/8 in.); 0.56 mV plug in power
Speaker:	20 mm (1 ³ / ₃₂ in.) 8 Ω
Dimensions (W x H x D):	,
Max dimensions;	34.3 mm x 119.3 mm x 16.1 mm (1 ¹¹ / ₃₂ in. x 4 ²³ / ₃₂ in. x ²¹ / ₃₂ in.)
Cabinet dimensions;	33.6 mm x 119 mm x 14.9 mm (1 ⁵ / ₁₆ in. x 4 ¹¹ / ₁₆ in. x ¹⁹ / ₃₂ in.)

Cabinet dimensions;	33.6 mm x 119 mm x 14.9 mm (1
Mass:	
With rechargeable batteries;	65 g (2.29 oz.)
Without batteries;	40 g (1.41 oz.)
Operational temperature range:	0 °C to 40 °C (32 °F to 104 °F)
Rechargeable temperature range:	5 °C to 40 °C (41 °F to 104 °F)
Recharging time:	approx. 3 hours
Memory capacity:	128 MB
Battery life: [When used at 25 °C	C (77 °F) on a flat, stable surface]

Marking sign is located on bottom of the unit.

Batteries	Recording mode		Playback	Recording	
nasonic nickel-metal ydride rechargeable batteries	Stereo	HQ	8 hours	8 hours 30 minutes	
		FQ/SP	9 hours	10 hours 30 minutes	
	Monaural	HQ	8 hours 30 minutes	10 hours	
		FQ/SP	9 hours 30 minutes	12 hours 30 minutes	
Panasonio alkalino	Stereo	HQ	10 hours 30 minutes	11 hours 30 minutes	
		FO/SP	13 hours	14 hours 30 minutes	

12 hours

14 hours

The battery life may be less depending on the operating conditions.

	Monaurai	FQ/SP	13 hours 30 minutes	18 hours	
Power consumed by the recharging cradle when the unit is not connected is <u>0.2 W</u> .					
 Specifications are subject to change without notice. Mass and dimensions are approximate. 					

HQ

Care and Use

To reduce risk of radio interference caused by headphone-, earphone- or microphone cables, only use adequate accessories with the cable length less than 3 m

- · Avoid using or placing this unit near sources of heat. Do not leave it in an automobile exposed to direct sunlight
- for a long period of time with doors and windows closed. To avoid product damage, do not expose this product to rain, water or other liquids.
- The unit's speaker does not have magnetic shielding. Do not place the unit near televisions, personal
- computers, magnetized cards (bank cards, commuter passes) or other devices easily influenced by a magnet.

Batteries

- Do not peel off the covering on batteries and do not use the batteries if the covering has been peeled off.
- Align the poles ⊕ and ⊖ correctly when inserting the batteries. Do not mix different types of batteries or old and new batteries.
- Remove the batteries if you do not intend to use the unit for a long time.
- . Do not throw into fire, short-circuit, disassemble or expose batteries to excessive heat.
- Do not attempt to recharge dry cell batteries.
- Battery mishandling can cause electrolyte leakage which can damage items the fluid contacts and may cause a fire. If electrolyte leaks from the batteries, consult your dealer. Wash thoroughly with water if electrolyte comes in contact with any part of your body.
- Keep batteries out of reach of small children. Accidental swallowing of batteries can result in stomach and · When carrying batteries in a pocket or bag, ensure no metal objects such as necklaces are placed together
- with them. Contact with metal may cause short-circuiting which can cause a fire. For safety, carry the rechargeable batteries in the battery carrying case.

AC adaptor

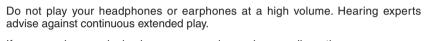
This AC adaptor operates on AC between 100 V and 240 V.

- In the U.S.A. and Canada, the AC adaptor must be connected to a 120 V AC power supply only. • When connecting to an AC supply outside of the U.S.A. or Canada, use a plug adaptor to suit the AC outlet configuration. Remove the plug adaptor from the household AC outlet when you do not use it.
- · With the appropriate outlet adaptor plug (not included), it is also possible to use it in other countries. • It is recommended to unplug the AC adaptor from the outlet when not in use for a prolonged period of time.

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

Listening caution





If you experience a ringing in your ears, reduce volume or discontinue use. Do not use while operating a motorized vehicle. It may create a traffic hazard and is illegal in many areas

You should use extreme caution or temporarily discontinue use in potentially hazardous situations. Even if your headphones or earphones are the open-air type designed to let you hear outside sounds, don't turn

up the volume so high that you can't hear what's around you. Sound can be deceiving. Over time your hearing "comfort level" adapts to higher volumes of sound. So what sounds "normal" can actually be loud and harmful to your hearing

Guard against this by setting your equipment at a safe level BEFORE your hearing adapts. o establish a safe level

 Start your volume control at a low setting. · Slowly increase the sound until you can hear it comfortably and clearly, and without distortion.

Once you have established a comfortable sound level: Leave it there.

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

A nickel metal hydride battery that is recyclable powers the product you have purchased. Please call 1-800-8-BATTERY for information on how to recycle this battery.

The socket outlet shall be installed near the equipment and easily accessible. The mains plug of the power supply cord shall remain readily operable. To completely disconnect this apparatus from the AC Mains, disconnect the power supply cord plug from AC receptacle.

Product Service

1. Damage requiring service – The unit should be serviced by qualified service personnel if:

(a) The AC adaptor has been damaged; or

(b) Objects or liquids have gotten into the unit; or

(c) The unit has been exposed to rain: or (d) The unit does not operate normally or exhibits a marked change in performance; or

(e) The unit has been dropped or the cabinet damaged. 2. Servicing – Do not attempt to service the unit beyond that described in these operating instructions. Heter all other servicing to authorized servicing personnel.

manufacturer or parts that have the same characteristics as the original parts. Unauthorized substitutes may result in fire, electric shock, or other hazards. 4. Safety check - After repairs or service, ask the servicer to perform safety checks to confirm that the unit is in

3. Replacement parts – When parts need replacing ensure the servicer uses parts specified by the

proper working condition. Product information

For product information or assistance with product operation

In the U.S.A., refer to "Customer Services Directory" (→ page 10-b) For assistance in the continental U.S.A. in obtaining repairs please ship the product to:

Panasonic Services Company- Customer Servicenter Suite B 4900 George McVay Drive McAllen, TX 78503

SERIAL NUMBER

In Puerto Rico contact the Panasonic Puerto Rico, Inc. Tel. (787) 750-4300 Fax. (787) 768-2910

When shipping the unit carefully pack and send it prepaid, adequately insured and preferably in the original Panasonic Factory Service: carton. Include a letter detailing the complaint and provide a day time phone number where you can be reached. IF REPAIR IS NEEDED DURING THE WARRANTY PERIOD THE PURCHASER WILL BE REQUIRED TO FURNISH A SALES RECEIPT/PROOF OF PURCHASE INDICATING DATE OF PURCHASE, AMOUNT PAID AND PLACE OF PURCHASE, CUSTOMER WILL BE CHARGED FOR THE REPAIR OF ANY UNIT RECEIVED

<u>WITHOUT SUCH PROOF OF PURCHASE.</u> Also, the purchaser will be responsible for shipping the unit to the above address. In Canada, contact the Panasonic Canada Inc. Customer Care Centre at 905-624-5505, or visit the website (www.panasonic.ca), or an authorized Servicentre closest to you

on the back of the cassette compartment cover or inside the battery compartment. Please note it in the space provided below and keep as a permanent record of your purchase to aid identification in the event of theft. MODEL NUMBER RR-US500

The serial number of this product can be found

DATE OF PURCHASE

User memo:

DEALER NAME DEALER ADDRESS TELEPHONE NUMBER

Limited Warranty (ONLY FOR U.S.A.)

Division of Panasonic Corporation of North America

One (1) Year One (1) Year

Ten (10)

Product or Part Name Parts Labor

Limited Warranty Coverage

I Portable Audio Products

ot item listed below

chargeable batteries (in

product which was not sold "as is".

Customer Servicenter

McAllen, TX 78503

y visiting our Web Site at:

, contact us via the web at:

ou may also contact us directly at:

4900 George McVay Drive

Panasonic Services Company

Inc. (787)-750-4300 or fax (787)-768-2910.

For assistance in Puerto Rico call Panasonic Puerto Rico,

Obtain Product Information and Operating Assistance

For hearing or speech impaired TTY users, TTY: 1-877-833-8855

locate your nearest Dealer or Servicenter; purchase Parts and

Mail-In Service

please ship the product to

exchange for defective item)

Ave. 65 de Infantería, Km. 9.5 One Panasonic Way Secaucus, New Jersey 07094 San Gabriel Industrial Park, Carolina, Puerto Rico 00985

and serviced in the United States or Puerto Rico. This time, travel to and from the servicer, loss of or damage to media

adequately insured and preferably in the original carton. PARTS AND SERVICE, WHICH ARE NOT COVERED BY

Panasonic Portable Audio Products Limited Warranty IF REPAIR IS NEEDED DURING THE WARRANTY PERIOD

If your product does not work properly because of a defect in THE PURCHASER WILL BE REQUIRED TO FURNISH A materials or workmanship, Panasonic Consumer Electronics SALES RECEIPT/PROOF OF PURCHASE INDICATING DATE Company or Panasonic Puerto Rico, Inc. (collectively OF PURCHASE. AMOUNT PAID AND PLACE OF PURCHASE

referred to as "the warrantor") will, for the length of the period CUSTOMER WILL BE CHARGED FOR THE REPAIR OF ANY indicated on the chart below, which starts with the date of <u>UNIT RECEIVED WITHOUT SUCH PROOF OF PURCHASE</u>. original purchase ("warranty period"), at its option either Limited Warranty Limits And Exclusions (a) repair your product with new or refurbished parts, or (b) This warranty ONLY COVERS failures due to defects in materials

replace it with a new or a refurbished product. The decision to repair or replace will be made by the warrantor.

or workmanship, and DOES NOT COVER normal wear and tear or cosmetic damage. The warranty ALSO DOES NOT COVER damages which occurred in shipment, or failures which are caused by products not supplied by the warrantor, or failures which result from accidents, misuse, abuse, neglect, mishandling, misapplication. alteration, faulty installation, set-up adjustments, misadjustment of consumer controls, improper maintenance, power line surge, lightning damage, modification, introduction of sand, humidity or iquids, commercial use such as hotel, office, restaurant, or other

THERE ARE NO EXPRESS WARRANTIES EXCEPT AS During the "Labor" warranty period there will be no charge for labor. During the "Parts" warranty period, there will be no charge for parts. You must mail-in your product during the warranty period. This Limited Warranty excludes both

CONSEQUENTIAL DAMAGES RESULTING FROM THE USE parts and labor for batteries, antennas, and cosmetic parts

OF THIS PRODUCT, OR ARISING OUT OF ANY BREACH OF (cabinet). This warranty only applies to products purchased THIS WARRANTY. (As examples, this excludes damages for lost

ousiness or rental use of the product, or service by anyone other

than a Factory Servicenter or other Authorized Servicer, or damage

warranty is extended only to the original purchaser of a new or images, data or other memory or recorded content. The items listed are not exclusive, but are for illustration only ALL EXPRESS AND IMPLIED WARRANTIES, INCLUDING THE WARRANTY OF MERCHANTABILITY. ARE LIMITED TO THE For assistance in the continental U.S.A. in obtaining repairs

PERIOD OF THE LIMITED WARRANTY. Some states do not allow the exclusion or limitation of incidental or consequential damages, or limitations on how long an implied warranty lasts, so the exclusions may not apply to you. This warranty gives you specific legal rights and you may also have other rights which vary from state to state. If a problem with this product develops during or after the warranty period, you may contact your dealer or Servicenter. If the problem is not handled to your satisfaction, then write to the warrantor's Consumer Affairs When shipping the unit carefully pack and send it prepaid. Department at the addresses listed for the warranto

Include a letter detailing the complaint and provide a day time THIS LIMITED WARRANTY, ARE YOUR RESPONSIBILITY Purchase Parts, Accessories and Instruction Books online for all Panasonic Products by visiting our Web Site at:

http://www.pasc.panasonic.com or, send your request by E-mail to: npcparts@us.panasonic.com http://www.panasonic.com/consumersuppor You may also contact us directly at: 1-800-332-5368 (Phone) 1-800-237-9080 (Fax Only) <u> http://www.panasonic.com/contactinfo</u> (Monday - Friday 9 am to 8 pm, EST.)

Panasonic Services Company

Carolina, Puerto Rico 00985

Phone (787)750-4300, Fax (787)768-2910

20421 84th Avenue South, Kent, WA 98032 Monday-Friday 9 am-9 pm; Saturday-Sunday 10 am-7 pm, EST (We Accept Visa, MasterCard, Discover Card, American Express, and Personal Checks) For hearing or speech impaired TTY users, TTY: 1-866-605-1277

Service in Puerto Rico sonic Puerto Rico, In Ave. 65 de Infantería, Km. 9.5, San Gabriel Industrial Park,

Limited Warranty (ONLY FOR CANADA)

PANASONIC/TECHNICS PRODUCT – LIMITED WARRANTY Panasonic Canada Inc. warrants this product to be free from defects in material and workmanship and agrees

Panasonic Canada Inc.

Technics Audio Product One (1) year, parts and labour Panasonic Audio & DVD Product One (1) year, parts and labour Accessories including rechargeable batteries Ninety (90) days

to remedy any such defect for a period as stated below from the date of original purchase

In-home Service will be carried out only to locations accessible by roads and within 50 km of an authorized Panasonic service facility.

LIMITATIONS AND EXCLUSIONS This warranty does not apply to products purchased outside Canada or to any product which has been improperly installed, subjected to usage for which the product was not designed, misused or abused, damaged during shipping, or which has been altered or repaired in any way that affects the reliability or detracts from the performance, nor does it cover any product which is used commercially. Dry cell batteries are also excluded from coverage under this warranty.

original purchase is required before warranty service is performed. THIS EXPRESS, LIMITED WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING ANY IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR

IN NO EVENT WILL PANASONIC CANADA INC. BE LIABLE FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES. In certain instances, some jurisdictions do not allow the exclusion or limitation of incidental or consequential damages, or the exclusion of implied warranties, so the above limitations and exclusions may not be applicable.

This warranty is extended to the original end user purchaser only. A purchase receipt or other proof of date of

FOR PRODUCT OPERATION ASSISTANCE, please contact: Our Customer Care Centre: (905) 624-5505 1-800-561-5505 (905) 238-2360 Fax #: Email link:

Mississauga Ontario

5770 Ambler Drive

Tel: (905) 624-8447

Fax: (905) 238-2418

"Contact Us" on www.panasonic.ca FOR PRODUCT REPAIRS, please locate your nearest Authorized Servicentre at www.panasonic.ca

Link: "Servicentres™ locator" under "Customer support"

Richmond British Columbia Panasonic Canada Inc. 12111 Riverside Way Richmond BC V6W 1K8 Tel: (604) 278-4211

Fax: (604) 278-5627

IF YOU SHIP THE PRODUCT TO A SERVICENTRE Carefully pack and send prepaid, adequately insured and preferably in the original carton. Include details of the defect claimed, and proof of date of original purchase.

Panasonic Canada Inc. Mississauga ON L4W 2T3