

Panasonic

Operating Instructions IC Recorder

Model No. RR-US490 RR-US470 RR-US450 RR-US430

The illustration shows RR-US470.

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.

If you have any questions contact

In the U.S.A.:1-800-211-PANA(7262) In Canada:1-800-561-5505

For U.S.A. only

The warranty can be found on pages 40 and 41.

For Canada only

The warranty can be found on pages 42 and 43.



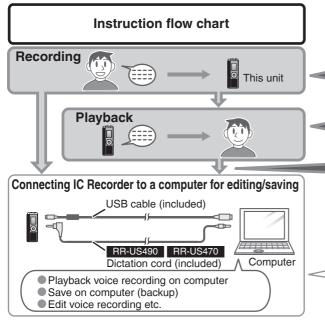






RQT8824-MP

Instruction flow chart



The correct instruction manual you should refer to

For IC Recorder operation... For instructions on connecting IC Recorder to a computer, installing instructions etc...

These Operating Instructions

For Voice Editing instructions...

Voice Editing Ver. 2.0
Operating Instructions
(PDF file)

Table of contents

Preparation		Playing
Instruction flow chart	2	While a file is being played
Supplied accessories		Adjusting the volume Moving forward/moving backward
• •		
Inserting batteries		Making recorded sounds easier to catch (reducing noise)
Before use	5	Other playing methods
Point 1 Before operating, switch Hold off, when finished, switch Hold on		Searching points for listening (fast forward and fast backward)
when finished, switch Hold on	5	Changing the playback speed
Point 2 Recordings become audio files and the files are stored in folders		Playing files successively
and the files are stored in folders	6	Listening with earphones
Point 3 Choose a recording method that best suits the situation	_	Advanced use
		Organizing files
Part names		Deleting
How to use the quick search dial	9	Moving
List of menus	10	Lock (file protection)
Setting the time	11	Security functions
Canceling the operation beep		Security functions of this unit
	• •	Folder S and password
Basic use		Setting the password
Recording	12	Playback using the password
Meeting recording		When you forget the password
Display during recording	12	Recording to / from a cassette tape
Dictation recording		Reference
Stop and pause	13	Using the unit with a computer
Confirming the remaining time	13	Troubleshooting guide
Other recording methods	14	Specifications
Zoom recording (recording target voice clearly)		Maintenance
Recording through an external microphone		Care and use
Listening to the recording in progress		
Preventing unnecessary recording (VAS)		Product service
Timer recording	15	Limited Warranty (ONLY FOR U.S.A.)
Download from Muse Samone	iolo oc	Limited Warranty (ONLY FOR CANADA)

Supplied accessories



Please check and identify the supplied accessories.

Use numbers indicated in parentheses when asking for replacement parts. (Product numbers correct as of March 2008. These may be subject to change.)

RR-US490 : 2

For the U.S.A. RR-US470 RR-US450 : 1
For Canada RR-US470 RR-US450 : 2

CD-ROM (Voice Editing Ver.2.0 Premium Edition)

RR-US430 : 1

CD-ROM (Voice Editing Ver.2.0 Standard Edition)

RR-US490 RR-US470 : 1
Dictation cord [K2KC2CB00001]

All models : 1

USB cable [K2KZ4CB00012]

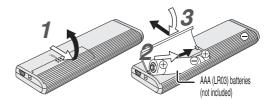
Only for the U.S.A.: To order accessories, refer to

"Accessory Purchases" (→ page 41).

Only for Canada: To order accessories, call the dealer from whom you have

made your purchase.

Inserting batteries

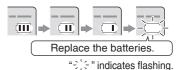


Make sure the batteries face the right directions.

- Replace the batteries within 30 seconds to preserve the settings. (Recordings remain intact.)
- The clock, however, will stop until the batteries have been inserted.
- If rechargeable batteries are to be used, rechargeable batteries manufactured by Panasonic are recommended.
- When batteries are inserted, "2 □□ 8" or "2 □□ 1" flashes on the display. Set Hold off (→ page 5) and set the time (→ page 11).

The battery indicator

(Displayed during recording/playback)



Before use

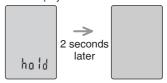


Hold function

This function prevents accidental operation when you put the unit in your pocket or bag. It also prevents battery loss from accidental unit operation.

When you set Hold on

- Button operations are ignored even if you press buttons by mistake.
- When you set Hold on while recording or playing, "hn ld" appears for 2 seconds and the recording or playing display reappears.
- When you set Hold on while the unit is stopped, "ha 'a" appears for 2 seconds and the display turns off.



This unit has no power button.

● You can make batteries last longer by setting Hold on and turning the Download from Www.Somanuals.com. All Manuals கூலை And Download.

Before use

Point 2

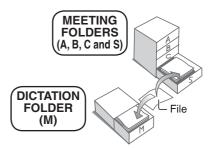
Recordings become audio files and the files are stored in folders. A new audio file is created each time you record.







The created file is stored in a folder.



- A maximum of 99 files can be stored in each folder.
- Remaining recording time (page 13) may become shorter than periods listed in this table.

Approximate total recording time of all folders

Model Recording mode	RR-US490	RR-US470	RR-US450	RR-US430
HQ (High quality)	79 hours 10 minutes	39 hours	19 hours 10 minutes	9 hours 40 minutes
FQ (Fine quality)	158 hours 30 minutes	78 hours 10 minutes	38 hours 30 minutes	19 hours 30 minutes
	271 hours 30 minutes		66 hours	33 hours 20 minutes

RQT8824

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. Using the zoom function, you can also record target voice clearly (>> page 14).



To record a low-level sound source...

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

Meeting recording settings (no zoom recording for RR-US430)

	Microphone sensitivity		H (Far)	L (Near)	
	Zoom	[OFF]	A normal meeting	A meeting held in a small room	
ı	recording	[ON]	A lesson, lecture	An interview during a meeting	
Recording mode HO		HQ (high quality)/ FC	HQ (high quality)/ FQ (fine quality)/ SP (standard play)		

DICTATION RECORDING



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

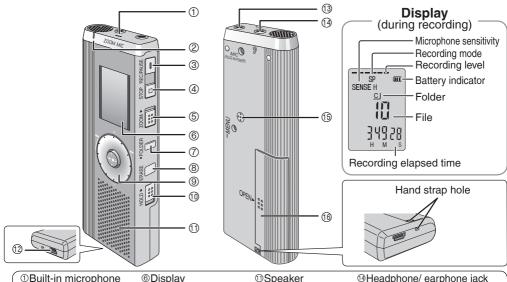
Dictation recording settings

Microphone sensitivity	Dictation Recording level (fixed)		
Recording mode	HQ (high quality) (fixed)		

recognition software is to be used.

Recording mode HQ (high Download from Www.Somanuals.com. All Manuals Search And Download.

Part names



3QT8824

②Recording indicator

®Record/ pause

4 Stop

@Display

⑦ Folder/menu

®Erase

®Speaker @USB jack

(3Fxternal

microphone iack

Headphone/ earphone jack

®Zoom microphone (dented area)

Not on RR-US430

®Battery cover

⑤Zoom Not on RR-US

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How to use the quick search dial

Basic operations



A: Dial:

®: Joystick:

Turn the dial to right or left to select an item.



®:Press [►/■] to confirm.

In this manual

④:Turn [∠/↘].

Press to confirm the item

Avoid pressing too much when you turn the guick search dial.

Joystick operations (see above ® for the confirming operation)

Playback (→ pages 16 and 17) Password entry (→ pages 20 and 21) * You can also select items by tilting the joystick. This manual explains dial operations in most sections.



© Tilt the stick to left and riaht.



©: Tilt the joystick to $[\triangleleft/\triangleright]$.

Volume control



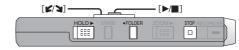
10: Tilt the stick up and down.



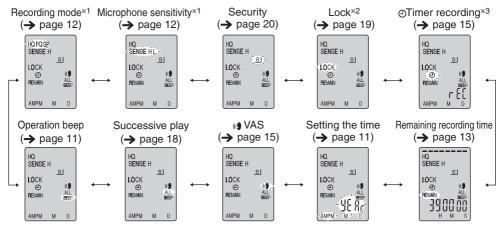
①: Tilt the joystick to $[\triangle/\nabla]$.

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List of menus



- ① Press and hold [•FOLDER/—MENU] for 1 second or longer (while stopped) to display menus.
- ② Turn [►/>→] and press [►/■] to confirm.
 - Press [STOP] to stop an operation midway/cancel the setting.
 - If an operation is not started within 60 seconds, unfinished settings are canceled.

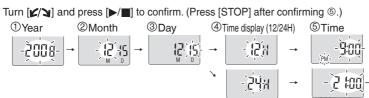


- ×1 Displayed only when a Meeting Recording folder (A, B, C or S) is selected.
- *2 Displayed only when there is a recorded file.
- *3 Display Download In the mithewolds britane als.com. All Manuals Search And Download.

Setting the time

- When the year is flashing (e.g. "?;;;; 8" or "?;;;;; on the display), begin from step 4.
 - **1** Set Hold off (→ page 5)
- 2 Display the menu
 While stopped, press and
 hold [•FOLDER/– MENU]
 for 1 second or longer.
- 3 Select " ¼F Ar"
 Turn [戊/戊] to select
 " ¼F Ar" and press
 [▶/■] to confirm.
- The clock operates with the monthly error margin of +/- 60 seconds at room temperature.
- The clock returns to standby when you perform no time setting operation for 60 seconds. If this happens restart setting the time.





Canceling the operation beep

- Display the menu While stopped, press and hold
 - press and hold

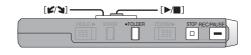
 [•FOLDER/

 MENU] for 1
- 2 Select "BEEP"
 - Turn [戊/戊] and press [▶/ █] to confirm.
- 3 Select " (JFF "
 - ① Turn [∠/↘] and press [▶/➡] to confirm.
 ② Press [STOP].

To use the operation beep, select " []n" in step 3.

RQT8824

Meeting recording



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

Select a Meeting Recording folder (A, B, C or S)

Press [•FOLDER/ - MENU1.

Each time you press

AJ→BJ→CJ→SJ

Display the recording mode menu MM

(1) Press and hold [•FOLDER/ - MENU1 for 1 second or longer.

②After making sure the display at right, press [\brace/ \brace 1 to confirm.

Record

HQ FQ SP SENSE H SI REMAIN AMPM

Select the recording mode

> ①Turn [**L**/**1**]. REMAIN $HQ \leftrightarrow FQ \leftrightarrow SP$

② Press [▶/■] to confirm

HQ: High quality FQ: Fine quality SP: Standard play

HO FO SP

SENSE H

The factory setting is "HQ".

Select the microphone sensitivity level

- ① Press [▶/■] to display microphone sensitivity.
- ② Turn [**∠**/**≥**] and press [▶/■] to confirm
- 3 Press [STOP].



Press [REC/PAUSE].

Display during recording -

Display changes depending on recording levels.

while recording. (Flashes while paused.)



Recording elapsed time (Flashes while paused.)

H: Far

12

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.

1 Select folder

Press [•FOLDER/ -- MENU].

Each time you press.

A→B→C→SI ↑—MI←— HQ MJ

2 Record

Press [REC/PAUSE].

Stop and pause

- Press [STOP] to stop recording.
- The following recording information is displayed when recording is stopped.

Recording → Recording → Recording → The number of files in folder

 While recording, press [REC/PAUSE] to pause. Press it again to resume recording. (Recording continues in the same file.
 While a continues in the same file.

Confirming the remaining time

When you press [•FOLDER/—MENU] while recording, the remaining recording time appears.



- To return to the initial menu, press [•FOLDER/- MENU] again.
- Remaining recording time also appears when the time becomes very short.

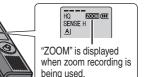
■ Zoom recording (recording target voice clearly)

Not on RR-US430

Zoom recording enables you to clearly record sounds coming from the direction this unit is aimed at. It is suitable for recording lectures and interviews.

Select Meeting Recording folders (>> page12).

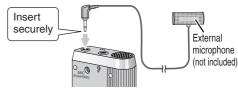
Aim this unit to the sound you want to record and slide [ZOOM ▶] toward the arrow.



- Do not block the zoom microphone (→ page 8) intentionally with your fingers or other items.
- Zoom recording can be switched on and off even when Hold is on.
- The zoom function does not work when you select folder M or when you use an external microphone.

■ Recording through an external microphone

 When you attach an external microphone, the built-in microphone automatically goes off.
 Plug type: Ø3.5 mm (1/8 in.) monaural mini plug



■ Listening to the recording in progress

Connect earphones (not included). (Sounds are monaural.)

Plug type: ø3.5 mm (1/8 in.) mini plug

The volume is fixed for recording.



■ Preventing unnecessary recording (VAS: Voice Activated System) Recording is automatically paused if there is no sound for more than 3 seconds.

Display the menu

Press and hold [•FOLDER/ - MENU1 for 1 second or longer.

Select "((● "

Turn [/] and press [▶/■] to confirm



Select " IIn

①Turn [**L**/**\)**] and press [▶/**■**] to confirm. @Press -Un)

[STOP].

- Record
 - (→ page 12) "«•" flashes when the VAS function is active
- Turn the function off when recording important files.
 - To turn the function off, select " []FF " in step 3.

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 5).

Preparation: Select the folder to be recorded to and the recording settings (\rightarrow page 12).

Display the menu Press and hold [•FOLDER/ - MENU1 for 1 second or longer.



Select " ⊕_n "



Turn [/ and press [▶/■] to confirm



Turn [\(\backslash \) and press [►/ ■] to confirm



1)Start time Turn [| and press [/ 1 to confirm



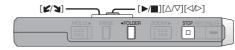
You can stop timer recording in progress, but you cannot bring it to a pause.

To confirm the recording start and finish time. perform step 2. To cancel the timer, select

" []FF" in step 3. To close the menu.

Download from Www.Somanuals.com. All Manuals Search And Download. press [STOP].

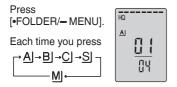
Playing



HO

ΑI

Select the folder



Select the file

Turn [**L/3**].

After selection, information at the time of recording is displayed. 3 Play

Press [▶/■].

When you press [▶/■] again, playback pauses. Press once more to resume playback.

į, EO

■ While a file is being played

Adjusting the volume

Tilt the joystick to $[\triangle/\nabla]$. (Volume range is 0 to 20. Factory setting is 13.)

Moving forward

Tilt the joystick to [▷].

Tilt and hold to search (→ page 17).

Moving backward

Tilt the joystick to $[\triangleleft]$.

Tilt it twice to play the previous file. (Tilting once starts the playback of the previous

file when it has been playing for less than 3 seconds.)

Tilt and hold to search (→ page 17).

Making recorded sounds easier to catch (reducing noise)

- ①Press [•FOLDER/- MENU] while playing.
- ②Turn [🏿 🛪] to select " 💽 " (" 💽 " flashes when selected) and press [▶/■] to confirm.
- ③Turn [∠/ン] to select "☐n" and press [►/■] to confirm.
- ■To cancel, select " ☐FF" in step ③

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Other playing methods

Searching points for listening (fast forward and fast backward)

Quick search

Turn [≰/>≥] while playing.

- You can search forward/backward quickly without sound (except the operation beep).
- The fast forward and fast backward speed changes according to the dial turning speed.
- To return to normal playback, stop turning.

Slow search

While playing, tilt the joystick to $[\triangleleft/\triangleright]$ and hold it in the position for 1 second or longer.

- You can search slowly with sound.
- To return to normal playback, release your finger.

■ Changing the playback speed

Playback is available at 5 different speeds.

Press [•FOLDER/ — MENU] while playing.



The playback speed rises as the flashing bars move right. The illustration shows the display for the normal speed playback.

Turn [🎉] to select "SPEED" ("SPEED" flashes when selected), press [▶/ 🔳] to confirm, and then turn [🞉] to select the playback speed.

The unit performs playback at the double speed cente selected speed instru
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The bar flashes when listening at a playback speed other than normal.



When playing back at the double speed

To return to the normal playback speed, move the flashing bars to the center in the way instructed at left.

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Other playing methods

Playing files successively

Files stored in the same folder are played successively.

Display the menu

> Press and hold [•FOLDER/- MENU] for 1 second or longer.

Select "ALL"

Turn [| and press [\] to confirm.



Select " 🗓 n "

[6/2]

①Turn [**∠**/**≥**] and press [▶/■] to confirm @Press [STOP].



Play

- [▶/**■**]

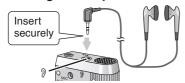
•FOLDER

Press [▶/■].



- The unit plays all files in order from the selected one to the last one.
- When the last file finishes, playback stops automatically.
- Press [STOP] twice to stop successive play midway.
- To cancel, select " 🖫 🗜 " in step 3.

■ Listening with earphones



Connect earphones (not included). (Sounds are monaural.)

Plua type: Ø 3.5 mm (1/8 in.) mini plua

The speaker is automatically turned off when earphones are used.

RQT8824

Organizing files

- **Deleting** (a file/ all files in a folder/ all folders except S/ all folders)
 - Display the deletina menu Press [ERASE].



Select a file or folder

Turn [**L/**].

a file





Preparation: Play the file to be moved (>> page 16).



Delete C Press and hold [ERASE] for 1 second or 8

longer.

When a file is deleted

Deleted files cannot be recovered. Protected files cannot be deleted.

Moving

Files can be moved both ways among folders A, B and C.

Files can be moved from folder M to folders A, B, C and S, but files cannot be moved to folder M.

Display the moving menu

a folder

Press and hold feFOLDER/ - MENUl for 1 second or longer. Select the destination folder Turn [**L/3**].



Destination folder the destination folder

Move

Press and hold [] for 1 second or longer.

Play will stop and the file is moved to the end of the selected folder.

Lock (file protection) Select "LOCK"

Preparation: Select a folder containing a file to protect.

Display the menu Press and hold

[•FOLDER/ - MENU] for 1 second or longer Turn [**L**/**Y**] and press

[▶/**■**] to



Select the file you want to lock



To unlock, select the file you want to unlock, then confirm.

19

Security functions

Security functions of this unit

This unit has 2 security functions.

- ①Password set in this unit

MFMO

Password (This unit) Authentication key

(Voice Editing)

Folder S and password

- Folder S is used to secure files. Once set, a password is necessary for playing files in this folder.
- The password is a 4-digit number. You can set the password using any combination of numbers. To play files in folder S, enter the password you set.
- You can move files in other folders to folder S, but you cannot move files in folder S to any of the other folders unless the password matches.

Setting the password

Display the menu Press and hold

[•FOLDER/- MENU] for 1 second or longer.

Select " s]"

Turn [\(\sum / \sum \)] and press [▶/■] to confirm.



Select " []n "

Turn [∠/ン] and press [▶/■] to confirm.



Set the password

①Turn [**L**/**\)**] to select a number

②Press [►/ ■] to move to the next digit. After entering the fourth number, press

[►/ ■] to confirm.

③Press [STOP].

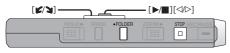
1230 1234

1000

1200

- - II Write down the password in the MEMO space (above) to keep it in memory. To initialize the password, select "[[FF]" in step 3 and enter the password you set.
 - To move am Drowdigite, ftö hth Www.storkanuals leonin stle Manuals Search And Download.

20



Playback using the password

Select folder S

Select a file to be played **Enter**

When the password matches

The password is temporarily the password released and the selected file in folder S is played.

①Press [•FOLDER/ - MENU]. ②Select " [S]"

- ①Turn [**L**/**3**]. ②Press [►/■] to confirm.
- ① Fnter the 4-digit password.
- ②Press [►/■].

When the password is wrong

The unit beeps twice (-> page 11) and the password entry display reappears.

- When the password matches, the security function using the password is suspended for 10 minutes.
- IN When the password is released and no operation is performed for 10 minutes, the password is automatically set and files in folder S become unplayable.
- II When wrong passwords are entered 5 times in succession, the unit stops accepting password entry for 15 minutes

When you forget the password

Initialize the password by taking the steps below.

- ①Release all locks set on files in folder S (→ page 19).
- ②Delete all files in folder S. (Deleted files cannot be recovered.)
- The security menu and set the password as "IFF".

How folder S is displayed

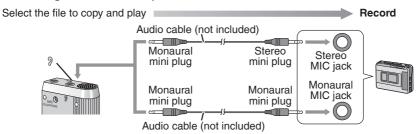
- s) Password is not set
- ত্তি। Password is set
- S During password entry/ password release/playback
- (S) Password release to end in 10 seconds
- You can also keep the files in folder S and just delete the password. Connect this unit to a computer and use the computer to delete the password. (See Voice Editing Ver.2.0 Operating Instructions (PDF file).)

This security function is only to limit a playback function for files by password, not by encryption. We do not guarantee any kind of loss in case your password gets broken up search And Download

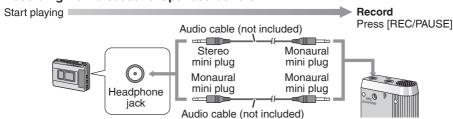
Recording to/from a cassette tape

Read the operating instructions for the connected equipment.

■ Recording to a cassette tape recorder etc.



■ Recording from a cassette tape recorder etc.



- The recorded sound may differ from the original recording.
- Adjust the recording volume on the source to the desired level. Download from Www.Somanuals.com. All Manuals Search And Download.

Using the unit with a computer

- Voice Editing Ver.2.0 Premium Edition (hereinafter Pr) is included for RR-US490, RR-US470 and RR-US450.
- Voice Editing Ver.2.0 Standard Edition (hereinafter S) is included for RR-US430.

RR-US490

There are 2 CD-ROMs for Prince

RR-US470 RR-US450 RR-US430

There are 2 CD-ROMs for Pr for Canada. Pr for the U.S.A. and S for both countries occupy 1 CD-ROM only.

Installing Voice Editing

- **1)Start Windows.**
- ②Insert the included CD-ROM (or 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 "x:\Launcher\VEdV1Launcher.exe" and click "OK". x is the CD-ROM drive ID.

3 Click "Voice Editing Ver.2.0".

Installation starts. Follow on-screen instructions for any subsequent operations.

For the U.S.A. For Canada

 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.)

Pr RR-US490 RR-US470/RR-US450 for Canada

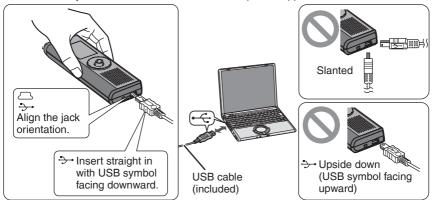
- Change the CD-ROM #1 for #2 according to the message that will appear in the middle of installation. Installation continues automatically.
- Change the CD-ROM #2 for #1 according to the message that will appear when the installation of #2 is complete.
- **4** Click "Finish" from the InstallShield Wizard Complete screen.

Selecting "Yes, I Drawth to restard my Wormstern and a statement and liver sharts Steacom Anter Dod committee installation.

2 Connecting this unit to a computer with the USB cable

You cannot operate the unit while it is connected to a computer.

• Do not use any other USB connection cables except the supplied one.



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

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

- When connected to a computer, " \(\bigcap \bigcap \) appears. When transferring data, " \(\bigcap \bigcap \bigcap \) " flashes.
- Do not disconnect the USB cable while this is flashing.
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Starting Voice Editing ① Double-click the "Voice







Standard

Editing" icon on the desktop. After double clicking, a dialog box for entering the authentication key appears.

- @Enter the "authentication key".
 - Enter an "authentication key" that has 1 to 128 characters
 - · We recommend that you use a phrase that is easy to remember for the "authentication key". Example: Good morning, this is Panasonic Corporation. How can I help you?
 - Write down the authentication key in the MEMO space (\rightarrow page 20) to keep it in memory.
- **3 Click "Settings" in the "IC Recorder** Authentication Key Settings" dialog box.
- 4 Click "Yes" in the confirmation dialog box.

IC Recorder Authentication Key Settings Complete the initial authentication settings for IC recorders supporting authentication for security. Here, specify the authentication key to identify the IC recorder. Enter up to 128 characters. 2 The authentication key is required if you connect the IC recorder to another computer or reinstall Voice Editing. Make a note of the authentication key to remember it, and keep this information safe. Information based on this authentication key will be registered on the IC recorder when you click the Settings button. If you click Cancel, the IC recorder will not be listed in the drive box. To reassign the IC recorder authentication key settings, unplug and then plug in USB plug

See Voice Editing Ver. 2.0 Operating Instructions (PDF file) for how to use Voice Editing and other information not provided in this manual.

Using the Operating Instructions (PDF file)

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

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■ System requirements (through page 29)

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.

OS: 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)

 Not compatible with Missosoft Windows® 3.1 Windows® 9.5 Windows® 9.8 (except for Windows® 9.8 S
- Not compatible with Microsoft Windows® 3.1, Windows® 95, Windows® 98 (except for Windows® 98 SE) and Windows NT®.
- Operation is not guaranteed on an upgraded OS.
- Not compatible with Mac OS.

Hardware:

CPU: Windows® 98 SE / Windows® Me: Intel® Pentium® II 333 MHz or higher

Windows® 2000 / Windows® XP: Intel® Pentium® III 500 MHz or higher

AM: Windows® 98 SE / Windows® Me: 128 MB or more Windows® 2000 / Windows® XP: 256 MB or more

Free hard disk space:

P 70 MB or more (For the U.S.A.) or 150 MB or more (RR-US490 RR-US470/RR-US450 for Canada)

- 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 (RR-US490 RR-US470/RR-US450 for Canada) of free space.

ROT

- S 60MB or more (For the U.S.A.) or 120MB or more (RR-US490 RR-US470/RR-US450 for Canada)
- Additional free hard disk space may be necessary depending on the Windows® version and voice file being used.
- Approximately 25MB of additional free hard disk space when installing Acrobat[®] Reader[®] (included).
- Approximately 50MB of additional free hard disk space when installing DirectX[®] 9.0c (included).

Drive: 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 × 768 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

Note

The following hardware limitations should be noted.

- Not compatible with multiprocessor computers or multiboot environments.
- Operation not guaranteed on user-built computers.
- Operation not guaranteed on 64-bit computers.
- Even if the system requirements mentioned in these operating instructions are fulfilled, some personal computers cannot be used.

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 engines.
- 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.

About Windows Vista

• Visit the following website for information about Voice Editing and using it on Windows Vista. http://panasonic.net/support/

Necessary software:

DirectX® 8.1 or later / Internet Explorer 6.0

Microsoft Office 2000/XP/2003 (support for Word, Excel, and PowerPoint is required when using the Office Add-in) These features are not available in S.

- · Microsoft and its logo as well as Windows, Windows Vista, 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, the Nuance logo, the Dragon logo, Dragon, NaturallySpeaking, and RealSpeak are trademarks and/or registered trademarks of Nuance Communications Inc., or its affiliates in the United States and/or other countries
- Noise cancellation features of this software incorporate technology of ANIMO LIMITED.
- · Adobe and its logo, Acrobat, and Acrobat Reader are trademarks of Adobe Systems Incorporated.
- FineSpeech(TM).
- · Other system names and product names appearing in this document are in general the registered trademarks or trademarks of the respective developer companies.

Note that the "TM" mark and "®" mark do not appear in this document.



You cannot install two versions of Sound File Management Software on the same computer.

- Voice Editing Ver.1.0 Premium Edition - Voice Editing Ver.1.0 Light Edition for D-snap Audio
- Voice Editing Ver. 1.0 Professional Edition - Voice Editor 3
- Voice Editing Ver.1.0 Standard Edition Voice Editor 2
- Previous versions of Voice Editing software (for Panasonic IC Recorder RR-US360/RR-US361)
- SD Voice Editor Ver 1 x
- Install Voice Editing Ver.2.0 Standard Edition when you use RR-US430. Previous versions do not work with RR-US430. Standard Edition can be installed on the same computer on which a previous version is already installed.

If you install it on the same computer, note that the new desktop icon is as shown at right. To use only one edition, uninstall both editions and then reinstall the desired edition.



- Translation (and interpretation) results are merely one example, and accuracy cannot be guaranteed. We cannot be liable for the translation results in any way. Additionally, please refrain from publishing, selling, or distributing unedited translation results, which may violate copyright law.
- Noise cancellation may not be effective in some cases, depending on the recording environment. Choosing stronger noise cancellation in the available range (1-5) may lower the volume of the recorded voice and may change its sound characteristics.
- 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.

Includes features for use in conjunction with Dragon, NaturallySpeaking dictation software (sold separately, from Nuance Communications, Inc.). For details on Dragon, NaturallySpeaking, visit the Nuance Communications website: http://www.nuance.com/dragon/

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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 41) if you reside in the U.S.A., or refer to "Product information" (>> page 38) if you reside in Canada.

Symptom	Checkpoints
"U01" appears on the display.	The battery has run down.
No operation.	 Make sure the batteries are correctly inserted. You cannot operate when the unit is connected to a computer (>> page 23).
Operation is not possible when "hold" appears on the display.	The Hold function is on (→ page 5).
"2008" or "2007", "12:00" flashes.	• Set the time (→ page 11).
"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 (→ page19).
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 15).
"" appears instead of the recording date.	• Set the time (→page 11).
Playback speed is too fast or slow.	Set the play speed to normal (→ page 17).
"FULL" appears.	There are 99 files in the folder. There is no remaining recording time. Delete unneeded files (page 19). There is no all manuals (page 19).

Symptom	Checkpoints
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 19). 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 folder A, B, C or S to the dictation folder. You cannot move files from folder S unless the password matches.
Cannot play	 You tried to play secured files in folder S. You must enter a password set on this unit to play files in folder S (→ pages 20 and 21).
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 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 11). You cannot set the timer if there is less than 1 minute of available recording time.
Timer recording does not work.	 The settings are canceled 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. Timer recording setting is canceled once timer recording is performed. Set the timer again when necessary (→ page 15).
Files created through timer recording are shorter than periods set with the timer.	VAS may be "On" (→ page 15).
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.
Recorded sounds contain noise that makes them difficult to catch. Download from Ww	 Reduce noise (→ page 16). Noise is reduced and listening becomes easier. Recording in the HQ mode is recommended. (This unit is designed for extended recording of human voice. It is not suited for recording music.) w.Somanuals.com. All Manuals Search And Download.

Troubleshooting guide

Symptom	Checkpoints
Sound is distorted.	Non-voice recordings such as music on CDs may become distorted in playback.
Sound is distorted when listening to the recording in progress with earphones.	Keep earphones and the microphone you are using separate.
Message appears when connecting to a computer.	 A message appears when you connect this unit to a computer for the first time. It asks you to enter an authentication key. The key is used for authenticating the unit and the computer.
I hear noises.	Move the mobile telephone away from this unit when you use the two in the same area.
Voice Editing does not start or does not work correctly.	 Make sure that "PC" is on this unit's display, and that this unit is 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 USB extension cable.
I used the "Dictation cord" supplied with the unit, but microphone sensitivity did not improve. Computer voice recognition level is still low.	Depending on your computer, you may also be able to improve the sensitivity by reversing the "Straight mini plug" and the "L-shaped mini plug" connections.
Cannot successfully convert audio to text with Voice Editing.	You should use IC Recorder in the dictation recording mode. You can make better recordings for voice recognition in this recording mode (→ page 7). (Refer to the Voice Editing Operating Instructions (PDF file).)

DC 3.0 V (2 AAA size/LR03 batteries)

Power output: 300 mW (max.)

Frequency response: 300 Hz to 5.000 Hz (HQ mode), 300 Hz to 3.400 Hz (FQ/SP mode) S/N:

37 dB (HQ mode)

Output jack: Earphone. \emptyset 3.5 mm ($^{1}/_{8}$ in.); 0.5 mW 16 Ω

Mic, ø 3.5 mm (1/8 in.); 0.56 mV plug in power Input jack: 20 mm (25 /32 in.) 8 Ω Speaker:

Dimensions (W x H x D):

Power requirement:

Max dimensions: 39.3 mm x 105.5 mm x 17.2 mm (1 9/16 in. x 4 5/32 in. x 11/16 in.) Cabinet dimensions; 38.8 mm x 105 mm x 14 mm (1 ¹⁷/₃₂ in, x 4 ¹/₈ in, x ⁹/₁₆ in,)

Mass (Weight):

With dry cell batteries;

Approx. 62 g or 2.17 oz. (RR-US490/RR-US470)/61 g or 2.13 oz. (RR-US450)/60 g or 2.11 oz. (RR-US430)

Without batteries:

Approx. 39 g or 1.37 oz. (RR-US490/RR-US470)/38 g or 1.33 oz. (RR-US450)/37 g or 1.31 oz. (RR-US430)

Operational temperature range:

0 °C to 40 °C (32 °F to 104 °F)

Memory capacity (MB means one million bytes. Usable capacity will be less.):

512 MB (RR-US490)/256 MB (RR-US470)/128 MB (RR-US450)/64 MB (RR-US430) 20 % to 80 % (non-condensing)

Operating Humidity: **Battery life:**

[When used at 25 °C (77 °F) on a flat, stable surface]

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

Batteries	Recording mode		Playback	Recording
Panasonic alkaline batteries	Monaural HQ FQ/SP	HQ	12 hours	21 hours (When not zoom recording)
		15 hours	30 hours (When not zoom recording)	

Product Identification Marking is located on Specifications are subject to change without notice. the hottom Search And Download Download from Www Somanuals com

RQT8824

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

- 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.

CAUTION

Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the manufacturer.

Dispose of used batteries according to the manufacturer's instructions.









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 (9.8 ft.).

Unit

- Avoid using or placing this unit near sources of heat.
- 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 heat or expose to flame.
- Do not leave the batteries in an automobile exposed to direct sunlight for a long period of time with doors and windows closed
- 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 children to prevent swallowing.
- · 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.

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Allergies

Discontinue use if you experience discomfort with the earphones or any other parts that directly contact your skin.

Continued use may cause rashes or other allergic reactions.

■ Listening caution





Do not play your headphones or earphones at a high volume. Hearing experts advise against continuous extended play.

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.

To 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 other product.

Product service

- 1. Damage requiring service The unit should be serviced by qualified service personnel if:
 - (a) Objects or liquids have gotten into the unit; or
 - (b) The unit has been exposed to rain; or
 - (c) The unit does not operate normally or exhibits a marked change in performance; or
 - (d) The unit has been dropped or the cabinet damaged.
- Servicing Do not attempt to service the unit beyond that described in these operating instructions.
 Refer all other servicing to authorized servicing personnel.
- **3. Replacement parts** When parts need replacing ensure the servicer uses parts specified by the 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 proper working condition.

Product information

For product information or assistance with product operation: In the U.S.A., refer to "Customer Services Directory" (>page 41).

For assistance in the continental U.S.A. in obtaining repairs please ship the product to:

Panasonic Service and Technology Company- Customer Servicenter Suite B 4900 George McVay Drive McAllen, TX 78503

In Puerto Rico contact the Panasonic Puerto Rico, Inc.

Tel. (787) 750-4300 Fax. (787) 768-2910

38

When shipping the unit carefully pack and send it prepaid, adequately insured and preferably in the original 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 WITHOUT SUCH PROOF OF PURCHASE.

Also, the purchaser will be responsible for shipping the unit to the address on page 38.

In Canada, contact the Panasonic Canada Inc. Customer Care Centre at 1-800-561-5505, or visit the website (www.panasonic.ca), or an authorized Servicentre closest to you.

The model number and senal number of this
product can be found on either the back or the
bottom of the unit.
Please note them in the space provided below
and keep for future reference.
MODEL NUMBER
SERIAL NUMBER

User memo:

DATE OF PURCHASE DEALER NAME DEALER ADDRESS
TELEPHONE NUMBER

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

Panasonic Consumer Electronics Company, Division of Panasonic Corporation of North America One Panasonic Way Secaucus, New Jersey 07094

Panasonic Puerto Rico, Inc.

Ave. 65 de Infantería, Km. 9.5

San Gabriel Industrial Park, Carolina, Puerto Rico 00985

Panasonic Portable Audio Products Limited Warranty

Limited Warranty Coverage

If your product does not work properly because of a defect in materials or workmanship, Panasonic Consumer Electronics Company or Panasonic Puerto Rico, Inc. (collectively referred to as "the warrantor") will, for the length of the period indicated on the chart below, which starts with the date of original purchase ("warranty period"), at its option either (a) repair your product with new or refurbished parts, or (b) replace it with a new or a refurbished product. The decision to repair or replace will be made by the warrantor.

Product or Part Name	Parts	Labor
All Portable Audio Products except item listed below	One (1) Year	One (1) Year
Rechargeable batteries (in exchange for defective item)	Ten (10) Days	Not applicable

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 parts and labor for batteries, antennas, and cosmetic parts (cabinet). This warranty only applies to products purchased and serviced in the United States or Puerto Rico. This warranty is extended only to the original purchaser of a new product which was not sold "as is".

Mail-In Service

For assistance in the continental U.S.A. in obtaining repairs please ship the product to:

Panasonic Service and Technology Company Customer Servicenter Suite B

4900 George McVay Drive McAllen, TX 78503

For assistance in Puerto Rico call Panasonic Puerto Rico, Inc. (787)-750-4300 or fax (787)-768-2910.

When shipping the unit carefully pack and send it prepaid, adequately insured and preferably in the original 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 WITHOUT SUCH PROOF OF PURCHASE.

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Limited Warranty Limits And Exclusions

This warranty ONLY COVERS failures due to defects in materials 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 liquids, commercial use such as hotel, office, restaurant, or other business or rental use of the product, or service by anyone other than a Factory Servicenter or other Authorized Servicer, or damage that is attributable to acts of God.

THERE ARE NO EXPRESS WARRANTIES EXCEPT AS LISTED UNDER "LIMITED WARRANTY COVERAGE".
THE WARRANTOR IS NOT LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OF THIS PRODUCT, OR ARISING OUT OF ANY BREACH OF THIS WARRANTY. (As examples, this excludes damages for lost time, travel to and from the servicer, loss of or damage to media 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 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.

Service in Puerto Rico

Panasonic Puerto Rico, Inc.

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

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

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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 Department at the addresses listed for the warrantor.

PARTS AND SERVICE, WHICH ARE NOT COVERED BY THIS LIMITED WARRANTY, ARE YOUR RESPONSIBILITY.

Customer Services Directory

Obtain Product Information and Operating Assistance; locate your nearest Dealer or Servicenter; purchase Parts and Accessories; or make Customer Service and Literature requests by visiting our Web Site at:

http://www.panasonic.com/consumersupport

or, contact us via the web at:

http://www.panasonic.com/contactinfo

You may also contact us directly at: 1-800-211-PANA (7262).

Monday-Friday 9 am-9 pm; Saturday-Sunday 10 am-7 pm, EST.

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

Accessory Purchases

Purchase Parts, Accessories and Instruction Books online for all Panasonic Products by visiting our Web Site at: http://www.pstc.panasonic.com

or, send your request by E-mail to: npcparts@us.panasonic.com

You may also contact us directly at:

1-800-332-5368 (Phone) 1-800-237-9080 (Fax Only)

(Monday – Friday 9 am to 9 pm, EST.)

Panasonic Service and Technology Company 20421 84th Avenue South, Kent, WA 98032

(We Accept Visa, MasterCard, Discover Card, American Express, and Personal Checks)

For hearing or speech impaired TTY users, TTY: 1-866-605-1277

QT8824

Limited Warranty (ONLY FOR CANADA)

Panasonic Canada Inc.

PANASONIC PRODUCT - LIMITED WARRANTY

Panasonic Canada Inc. warrants this product to be free from defects in material and workmanship and agrees to remedy any such defect for a period as stated below from the date of original purchase.

Technics Audio Product

Panasonic Portable / Clock Radio (without Tape, CD, MD)

Panasonic Audio / SD Audio Product

Panasonic DVD Product

Panasonic Combination DVD Player / VCR Panasonic Combination DVD Recorder / VCR

Accessories including rechargeable batteries

One (1) year, parts and labour

Ninety (90) days

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.

This warranty is extended to the original end user purchaser only. A purchase receipt or other proof of date of 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 PURPOSE. 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 warrantiers by the above limitations and exclusions are applicable.

WARRANTY SERVICE

FOR PRODUCT OPERATION ASSISTANCE, please contact:

Our Customer Care Centre: Telephone #: (905) 624-5505 1-800 #

1-800-561-5505 Fax #: (905) 238-2360

Email link: "Customer support" on www.panasonic.ca

FOR PRODUCT REPAIRS, please locate your nearest Authorized Servicentre at www.panasonic.ca:

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

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.

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.

FCC Caution: To assure continued compliance, follow the attached installation instructions and use only shielded interface cables with ferrite core when connecting to computer or peripheral devices.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

Declaration of Conformity

Trade Name: Panasonic

Model No.: RR-US490/RR-US470/RR-US450/RR-US430

Responsible party: Panasonic Corporation of North America One Panasonic Way, Secaucus, NJ 07094

Support Contact: Panasonic Consumer Electronics Company 1-800-211-PANA (7262)

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.

THE FOLLOWING APPLIES ONLY IN CANADA.

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

Panasonic Consumer Electronics Company,
Division of Panasonic Corporation of North America
One Panasonic Way Secaucus, New Jersey 07094
http://www.panasonic.com

Panasonic Puerto Rico, Inc.

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