



Panasonic®

Operating Instructions IC Recorder

Model No. **RR-US395**
RR-QR180
RR-QR170

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.



Matsushita Electric Industrial Co., Ltd.
Web Site: <http://www.panasonic.co.jp/global/>

RQT8530-B
F1105TH0

Supplied accessories

Use numbers indicated when asking for replacement parts. (Product numbers correct as of November 2005. These may be subject to change.)

- 1 USB cable (K1HA09BD0001)
- 2 CD-ROM (Voice Editing Ver.1.0 Premium Edition)

For the United Kingdom and Republic of Ireland

Sales and Support Information

Customer Care Centre

- For customers within the UK: 08705 357357
- For customers within the Republic of Ireland: 01 289 8333
- Visit our website for product information
- E-mail: customer_care@panasonic.co.uk

Technical Support for AV Software (RR-US395 only)

- For UK, ROI: 08701 505610
- Direct Sales at Panasonic UK
- Order accessory and consumable items for your product with ease and confidence by phoning our Customer Care Centre Monday – Thursday 9:00am – 5:30pm, Friday 9:30am – 5:30pm (Excluding public holidays).
- Or go on line through our Internet Accessory ordering application at www.panasonic.co.uk.
- Most major credit and debit cards accepted.
- All enquiries transactions and distribution facilities are provided directly by Panasonic UK Ltd.
- It couldn't be simpler!
- Also available through our Internet is direct shopping for a wide range of finished products, take a browse on our website for further details.

Preparation 1 Inserting batteries

1. Open the battery cover.
2. Insert the batteries correctly.

AAA, LR03 battery (not included)

- If rechargeable batteries are to be used, rechargeable batteries manufactured by Panasonic are recommended. (Rechargeable batteries may not last as long as regular batteries.)

The battery indicator (displayed during operation)

Full Empty

Replace the batteries

- Replace the batteries within 30 seconds to preserve the settings. Recordings remain intact.

Preparation 2 Setting the time

● When the year is flashing (e.g. 2006), begin from step 3.

Flashes until the time is set.

- 1 Enter the menu mode**
Press and hold **FOLDER/MENU**.
E.g.: Microphone sensitivity
SEn SE ● A menu is displayed.
- 2 Select "yEAR"**
Use **[<< >>]** to select **yEAR** → **[>]** (ENTER)
- 3 Set the time**
 - Year Use **[<< >>]** to select **2006** → **[>]** (ENTER)
 - Month/day Use **[<< >>]** to select **1/1** → **[>]** (ENTER)
 - Time display (12/24H) Use **[<< >>]** to select **24H** → **[>]** (ENTER)
 - Time Use **[<< >>]** to select **9:00** → **[>]** (ENTER)

The clock has a monthly accuracy of +/- 60 seconds at room temperature. When replacing the batteries, the clock stops and restarts when you reinsert them and close the battery cover.

Before use

Hint 1
Release hold before operation
▲ HOLD ▼

- There is no power button.

Hint 2
Recorded contents are stored in folders

For MEETING: A, B, C, D folders

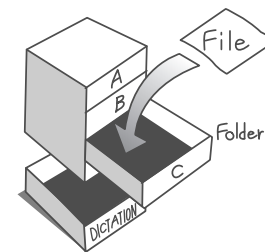
For DICTATION: File, Folder

Recording mode: MEETING, DICTATION

Controls: Hold, Folder/Menu, Erase, Play/enter, stop, fast forward, rewind/select, Recording/stop, Meeting/Dictation, Volume (+, -), Recording mode

- The unit returns to standby if there is no operation after 10 seconds have elapsed.
- Press **[─]** to stop the operation midway/cancel the setting.
- A maximum of 99 files can be stored in each folder.

Recording



- 1 Select meeting or dictation recording**
- 2 Select the folder**
- 3 Select the recording mode**

Meeting recording

MEETING → FOLDER/MENU → REC MODE

Each time you press: A, B, C, D (Folder); HQ, FQ, SP (Recording mode)

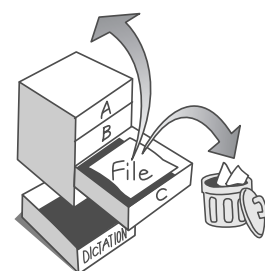
Dictation recording

DICTATION → FOLDER/MENU → REC MODE

When dictation recording, the following settings are used:
(Dictation folder is set) (HQ mode is set)

Dictation folder

Playing/Erasing



- 1 Select the folder**
- 2 Select file or folder**

Playing

MEETING → FOLDER/MENU → A, B, C, D (Folder)

Use **[<< >>]** to select file number. After selecting, information at the time of recording is displayed.

Erasing

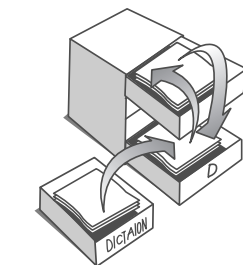
DICTATION → FOLDER/MENU → (The dictation folder is selected)

Press and hold **ERASE** → Use **[<< >>]**

- Selected
- All files in a folder
- All folders

! You cannot restore files you erase.

Organizing



- 1 Play a file**
- 2 Enter the move mode**
- 3 Select the destination folder**

Move

(Play the file you want to move) → FOLDER/MENU → Press and hold → Use **[<< >>]**

Destination folder
Number of files in destination folder

- 1 Select the folder**
- 2 Enter the menu mode**
- 3 Select the file**

File lock

A-D folder
Dictation folder

MEETING → FOLDER/MENU → Press and hold → Use **[<< >>]**

Hint 3

Use HQ to record with high sound quality and SP for long recordings

Recording mode and recording time total of all folders

Recording Mode	Recording Time
SP (Standard play)	66 hours 50 minutes
FQ (Fine quality)	16 hours 30 minutes
HQ (High quality)	4 hours 50 minutes

High quality sound

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Hint 4

Change the microphone sensitivity according to the distance

When recording close to the source: LO

When recording the source from a distance: HI

Menu display

(While stopped) Press and hold (More than 2 seconds)

Use [LEFT/RIGHT] to change the menu and [ENTER] to enter

E.g.: Microphone sensitivity*1

*1 Not displayed during dictation recording
*2 Displayed only when there is a recorded file.
*3 Displayed only when the time is set.

3 Select the recording mode

4 Select the microphone sensitivity

5 Recording (Monaural recording)

Press and hold [FOLDER/MENU] → [ENTER] → [LEFT/RIGHT] → [ENTER]

Recording information is displayed:
(Recording date)
(Recording start time)
(Recording time)
(Total number of files)

The following settings are automatically set:
(HQ mode is set)
(Dictation recording mode is set)

Other recording methods

Preventing unnecessary recording

Recording automatically pauses when there is no sound.

1 Enter the menu mode 2 Select "On" 3 Select "On"

Press and hold [FOLDER/MENU] → [LEFT/RIGHT] → [ENTER] → [LEFT/RIGHT] → [ENTER]

To turn the function off → select "OFF" in step 3.
! Turn the function off when recording important files.

Checking the remaining recording time available

During recording, press [FOLDER/MENU] to display remaining recording time.

Available recording time

Recording through an external microphone (not included)

Plug type: 3.5 mm monaural
(The built-in microphone switches off.)
Use a plug-in power compatible microphone monaural.

3 Play/Erase

Basic operations during play

- Play:** Press and hold to turn one file repeat play On/Off. (You cannot use repeat when setting continuous play.)
- Backward:** Press to return to the beginning of the file. (Press twice to return to the previous file.) Press and hold to search.
- Forward:** Press to go to the beginning of the next file. Press and hold to search.
- Stop play:** (Press [ENTER] to resume play.)

Listen to the first 5 seconds of each file (Intro scan)

1 Select the folder → 2 Press and hold [ENTER]

Repeat play settings are automatically canceled.

Adjust file or folder

Use [LEFT/RIGHT] to select [ENTER] (Play)

To adjust the volume (0-20): VOL +/-

Erase

Use [LEFT/RIGHT] to select [ENTER] (Erase)

- Selected file
- All files in a folder
- All folders

Other play methods

Changing the play speed (5 levels)

1 Enter the menu mode 2 Select "SPEED" 3 Select the speed

Press and hold [FOLDER/MENU] → [LEFT/RIGHT] → [ENTER] → [LEFT/RIGHT] → [ENTER]

To return to normal play: While stopped, press and hold (more than 3 seconds) [ENTER]

Plays the files in the folder continuously.

Continuous play

1 Enter the menu mode 2 Select "On" 3 Select "On"

Press and hold [FOLDER/MENU] → [LEFT/RIGHT] → [ENTER] → [LEFT/RIGHT] → [ENTER]

Repeat play settings are automatically canceled.
To turn the function off → select "OFF" in step 3.

Displaying the remaining play time

During playing, press [FOLDER/MENU] to display remaining play time.

Listening with the earphones (not included)

Plug type: 3.5 mm monaural

3 Select the destination folder

4 Move

Use [LEFT/RIGHT] to select [ENTER] (ENTER)

You cannot move a file from A-D folder to the dictation folder.

3 Select "Lock"

4 Select the file

5 Lock

Use [LEFT/RIGHT] to select [ENTER] → Use [LEFT/RIGHT] to select [ENTER] (ENTER)

To unlock → Do the above steps and select the file to unlock in step 4 and press [ENTER].

Saving (dubbing)

Recording to a cassette tape recorder

Select the file to dub and play → Recording

Audio cable (not included)
Monaural mini plug → Stereo mini plug → Stereo MIC
Audio cable (not included)
Monaural mini plug → Monaural mini plug → Monaural MIC

Recording from a cassette tape recorder

Recording → Select the track to dub and play

MIC (PLUG IN POWER)
Audio cable (not included)
Monaural mini plug → Stereo mini plug → Headphone jack
Audio cable (not included)
Monaural mini plug → Monaural mini plug → Headphone jack

Read along with the operating instructions of equipment you are connecting.
The recorded sound quality may differ from the original recording.
Adjust the recording volume on the source to the desired level.

Using the timer

Timer recording

Preparation: Select the folder and recording mode (⇨ page 2, 3)

- Enter the menu mode
- Select "●●, rEC"
- Set the time

1 Use [] to select "On" (ENTER)

2 Use [] to select the start time (ENTER)

3 Use [] to select the end time (ENTER)

Timer play

Preparation: Select the file (⇨ page 2, 3)

- Enter the menu mode
- Select "▶○, PLAY"
- Set the time

1 Use [] to select "On" (ENTER)

2 Use [] to select the start time (ENTER)

- To cancel the timer → select "OFF" in step 3-1.
- To confirm the set time → From the menu (⇨ page 4), select "●●, rEC" or "▶○, PLAY" and press [] .
- ! Even when "○" or "▶, ⌂" are displayed during timer play, the repeat play or continuous play cannot be used.

Part names

Display

- Recording level (When recording)/ Remaining memory
- Recording indicator
- Battery indicator
- Recording mode
- Play indicator
- Folder
- File
- Recording (play) elapsed time
- Current time (In standby mode)

External microphone jack

Earphone jack

Hold

Clip

Built-in microphone

Recording indicator

Battery cover

Handstrap hole

Display

Folder/Menu

Erase

Play/enter [▶], stop [■], fast forward, rewind/select [◀▶▶▶]

Speaker

Recording/stop

Meeting/Dictation

Volume (+, -)

Recording mode

RR-US395 USB connector [⇨]

Various functions

Canceling the operation beep

- Enter the menu mode
- Select "bBEEP"
- Select "OFF"

Press and hold [] → [] → [] (ENTER)

- To turn operation beep on → select "On" in step 3.

Preventing accidental button presses (HOLD)

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

● "hold" is displayed if a button is pressed while hold is on.

■ To release → move down

● While stopped, switch to hold to save the batteries.

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Using the unit with a computer

- Install Voice Editing.**
For details, read the installation instructions for Voice Editing (⇨ below)
- Connect this unit to a computer with the USB cable.**
This unit cannot be operated.

! 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 "PC" appears, and when transferring data "PC" flashes ! Do not disconnect the USB cable while this is flashing.

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.

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

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Installing Voice Editing Ver.1.0 Premium Edition

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

Installing Voice Editing

- Start Windows.**
- 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 on "Run".
② Type "※: \Launcher\VEDV1\Launcher.exe" and click on "OK".
※ is the CD-ROM drive ID.
- Click "Voice Editing Ver.1.0".**
Installation starts.
Follow the on-screen instructions for any subsequent operations.
• 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 installation of #2 is complete.
• 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.)
- 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.

Starting Voice Editing

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

Using the operating instructions (PDF file)

From the Windows "start" menu, click on "All Programs" → "Voice Editing" → "Voice Editing Operating Instructions" or from the "Help (H)" menu in the Voice Editing main screen, click on "Operating Instructions (H)".

- Note**
- If DirectX 8.1 or later is not installed on your computer, follow the 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 Editing.
 - Uninstall the following before installing Voice Editing Ver.1.0 (included).
You cannot install two versions of Voice software on the same computer.
- 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.

System requirements

- 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)
- 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.
- 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
- 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 1.5 GB of free space.
- 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.
- 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 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.
 - Translation results are merely one example of translation. We cannot be liable for the translation results in any way.
- 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)

Troubleshooting Guide

Before requesting service, make the following checks. If you are in doubt about some of the check points, or if the solutions indicated in the chart do not solve the problem, consult your dealer for instructions.

Symptom	Checkpoints
No operation.	<ul style="list-style-type: none"> The hold function is on. (⇄ page 6) Make sure the battery cover is closed. Make sure the batteries are correctly inserted. Make sure the battery cover is attached to the rubber strap RR-US395 You cannot operate when the unit is connected to a computer.
"U01" appears on the display.	<ul style="list-style-type: none"> The battery has run down.
"2006" or "2005" flashes.	<ul style="list-style-type: none"> Set the time. (⇄ page 1)
There is no sound from the earphone or it is difficult to hear or noisy.	<ul style="list-style-type: none"> Ensure the plug is inserted firmly. Wipe the plug clean.
Recording stops.	<ul style="list-style-type: none"> VAS (⇄ page 4) may have functioned.
"- - -" appears instead of the recording date.	<ul style="list-style-type: none"> Set the time. (⇄ page 1)
Playback speed is too fast or slow.	<ul style="list-style-type: none"> Set play speed to normal. (⇄ page 4)
"FULL" appears.	<ul style="list-style-type: none"> There are 99 files in the folder. There is no remaining recording time. <ul style="list-style-type: none"> Erase unneeded files. (⇄ page 2, 3)
No sound from the speaker.	<ul style="list-style-type: none"> There is no sound when you have connected an earphone.
Cannot erase a file or folder.	<ul style="list-style-type: none"> The file is locked. (⇄ page 2, 3) The folder is already empty.
Cannot move a file.	<ul style="list-style-type: none"> You cannot move files to folders that already contain 99 files. You cannot move files from A–D folder to the Dictation folder. (⇄ page 3)
A recording disappeared.	<ul style="list-style-type: none"> Recordings can disappear if the unit receives a shock (e.g. it is dropped), or if the batteries and cover come loose during recording.
Available recording time does not increase correspondingly after erasing files.	<ul style="list-style-type: none"> This can occur after repeatedly recording and erasing files. Unlock all your files, then erase all folders to remedy this.
Cannot set timer recording/playback.	<ul style="list-style-type: none"> You can set the timers within 24 hours of the current time. Set the time. (⇄ page 1)
Timer recording/playback does not work.	<ul style="list-style-type: none"> The settings are canceled if the batteries are removed and the clock settings clear.
Cannot set timer recording/playback at the same time.	<ul style="list-style-type: none"> When you set both, only the one you set last works.
Timer recording does not work.	<ul style="list-style-type: none"> You cannot set the timer if there is less than one minute of available recording time.
Cannot use a battery that can be used on other equipment.	<ul style="list-style-type: none"> This unit determines the battery empty even if there is actually life left in it. This is to preserve the clock and other memory items.
Cannot select a folder.	<ul style="list-style-type: none"> Press [FOLDER/MENU] briefly. You will enter the menu mode if you hold the button down for 2 or more seconds.
Sound is distorted.	<ul style="list-style-type: none"> When sound other than voice is recorded, this may occur during playback.
RR-US395 Voice Editing does not start or does not work correctly.	<ul style="list-style-type: none"> Make sure that "PC" is on this unit's display, and that this unit is recognized as a drive in Voice Editing. If it is not, disconnect the USB cable from this unit, then reconnect it. The connection may not work if you connect via a USB hub or USB extension cable.

Maintenance

To clean this unit, wipe with a soft, dry cloth.

- Never use alcohol, paint thinner or benzine to clean this unit.
- Before using chemically treated cloth, read the instructions that came with the cloth carefully.

Care and Use

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

Unit

- 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 the doors and windows closed.
- To avoid product damage, do not expose this product to rain, water or other liquids.
- Do not keep this unit and magnetized cards (bank cards, commuter passes, etc.) close together.
- The speaker does not have magnetic shielding. Do not place it near televisions, personal computers or other devices easily influenced by magnetism.

Batteries

- Do not peel off the covering on batteries and do not use 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 subject to excessive heat.
- Do not attempt to recharge dry cell batteries.
- Mishandling of batteries 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.

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.

Precautions for Listening with the Headphones or Earphones

- 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.

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

-If you see this symbol-



Information on Disposal for Users of Waste Electrical & Electronic Equipment (private households)

This symbol on the products and/or accompanying documents means that used electrical and electronic products should not be mixed with general household waste.

For proper treatment, recovery and recycling, please take these products to designated collection points, where they will be accepted on a free of charge basis. Alternatively, in some countries you may be able to return your products to your local retailer upon the purchase of an equivalent new product.

Disposing of this product correctly will help to save valuable resources and prevent any potential negative effects on human health and the environment which could otherwise arise from inappropriate waste handling. Please contact your local authority for further details of your nearest designated collection point. Penalties may be applicable for incorrect disposal of this waste, in accordance with national legislation.

For business users in the European Union

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

Information on Disposal in other Countries outside the European Union

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.

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- Note that the "TM" mark and "®" mark do not appear in some parts of this document.

Specifications

Power output:	300 mW (max.)
Frequency response:	240 Hz – 5,100 Hz (HQ mode) 230 Hz – 3,400 Hz (FQ/SP mode)
S/N:	36 dB (HQ mode)
Jack:	
Output jack;	Earphone, 3.5 mm; 0.5 mW 16 Ω
Input jack;	Mic, 3.5 mm; 0.56 mV plug in power
Speaker:	28 mm 8 Ω
Power requirement:	DC 3 V 2 AAA size (LR03) batteries
Dimensions (W×H×D):	
Max dimensions:	RR-US395 35.0 × 100.2 × 24.0 mm
	RR-QR180 RR-QR170 35.0 × 99.6 × 24.0 mm
Cabinet dimensions;	32.8 × 99.3 × 22.5 mm
Mass:	
with batteries;	RR-US395 About 62 g
	RR-QR180 RR-QR170 About 61 g
without batteries;	RR-US395 About 39 g
	RR-QR180 RR-QR170 About 38 g
Operational temperature range:	0 °C – 40 °C

Battery life:
[When used at 25 °C on a flat, stable surface]

RR-US395			
Batteries	mode	Play back	Recording
Panasonic alkaline batteries	HQ	About 9 hours 30 minutes	About 14 hours 30 minutes
	FQ/SP	About 11 hours 30 minutes	About 19 hours 30 minutes

RR-QR180 RR-QR170			
Batteries	mode	Play back	Recording
Panasonic alkaline batteries	HQ	About 10 hours	About 15 hours
	FQ/SP	About 12 hours	About 20 hours

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

Note:

- Specifications are subject to change without notice.
- Mass and dimensions are approximate.

ONLY FOR AUSTRALIA/NEW ZEALAND

WARRANTY

- The product is warranted for labour and parts for twelve (12) months from the date of purchase.
 - This Warranty is for normal domestic use only and excludes any defect or injury caused by or resulting from misuse, abuse, neglect, accidental damage, improper voltage, vermin infestation or any alteration which affects the reliability or performance of the unit, not attributable to faulty manufacture, parts and labour.
 - This warranty does not cover the following items unless fault or defect being complained of existed at the time of purchase.

(a) Video or Audio Tapes.	(c) Shaver Heads or Cutters.
(b) Video or Audio Heads and Stylus resulting from wear and tear in normal use.	(d) Cabinet parts.
	(e) Batteries.
 - If warranty service is required you should:
 - Contact your nearest Panasonic Authorised Service Centre.
 - Enclose a copy of your purchase receipt as proof of date of purchase.
 - Send or bring the product to Panasonic Authorised Service Centre. Warranty does not include any freight to and from the user or insurance so please arrange this yourself.
 - Note that home service is available for following products in the Metropolitan area or the normal operating areas of the nearest Authorised Service Centres.
 - Television Receivers (screen size greater than 39 cm)
 - Electronic Organs or Pianos
 - Microwave Ovens
 - Washing Machines
 - Air Conditioners
 - The warranties hereby conferred do not extend to any costs associated with the delivery, handling, freight or transportation of the product or any part thereof or replacement of and do not extend to any damage or loss occurring during, or associated with, transit.
- Unless otherwise specified to the consumer the benefits conferred by this express warranty are additional to all other conditions, warranties, guarantees, rights and remedies expressed or implied by the Trade Practices Act 1974 and similar consumer protection provisions contained in legislation of the States and Territories and all other obligations and liabilities on the part of the manufacturer or supplier and nothing contained herein shall restrict or modify such rights, remedies, obligations or liabilities.

THIS WARRANTY CARD SHOULD BE RETAINED BY THE CUSTOMER AT ALL TIMES

IF YOU REQUIRE ASSISTANCE REGARDING WARRANTY CONDITIONS, OR ANY OTHER ENQUIRIES, PLEASE TELEPHONE:

PANASONIC CUSTOMER CARE CENTRE 132 600

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