

# Panasonic<sup>®</sup>

## Operating Instructions IC Recorder

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### Model No. RR-QR270

#### ***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.

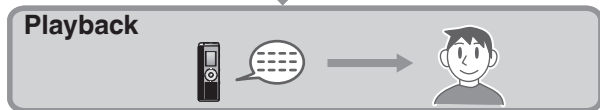
***If you have any questions contact  
1-800-211-PANA(7262)***

**The warranty can be found  
on pages 32 and 33.**

P

RQT9198-P

# Instruction flow chart



For IC Recorder operation...

**Recording** → **Page 12**

**Playing** → **Page 16**

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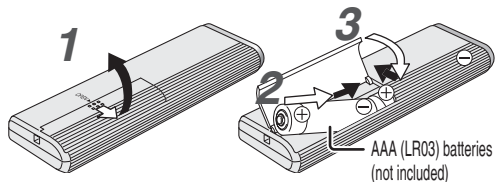
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# Inserting batteries

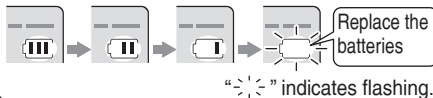


Make sure the batteries face the right directions.

- 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, “” flashes on the display. Set Hold off (→right) and set the time (→ page 11).

## The battery indicator

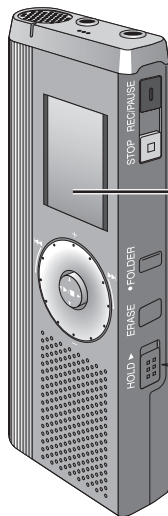
(Displayed during recording/playback)



RQT9198

- 4 ● When “” is displayed, replace the batteries.

# Before use



Remove the seal from the display before use.

Hold  
(Slide up)  
↑↓  
Hold off  
(Slide down)

## Point 1

Before operating,  
switch Hold off,  
when finished,  
switch Hold on.

**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, “hold” appears for 2 seconds and the recording or playing display reappears.
- When you set Hold on while the unit is stopped, “hold” 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 display off.

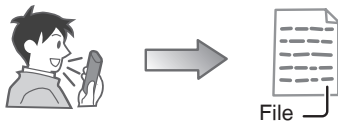
# Before use

## Point 2

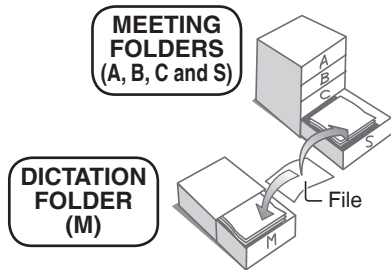
Recordings become audio files and the files are stored in folders.

- 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.

A new audio file is created each time you record.



The created file is stored in a folder.



### ■ Approximate total recording time of all folders

Recording mode	Total recording time
HQ (High quality)	39 hours
FQ (Fine quality)	78 hours 10 minutes
SP (Standard play)	167 hours 40 minutes

## Point 3

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.



#### 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

Microphone sensitivity	H (Far)	L (Near)
Recording mode	HQ (high quality)/ FQ (fine quality)/ SP (standard play)	



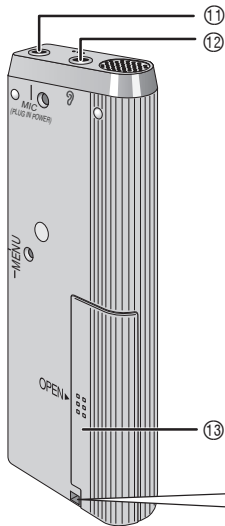
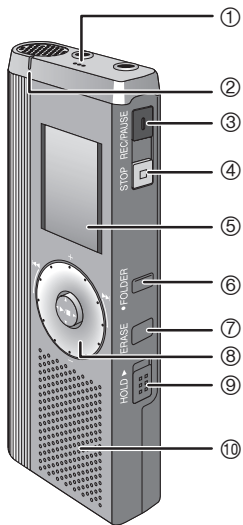
### DICTIONATION RECORDING

As the dictation recording settings are all factory-set, dictation can be recorded quickly and simply.

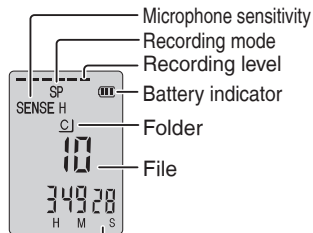
### Dictation recording settings

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

# Part names

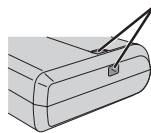


## Display (during recording)



Recording elapsed time

## Hand strap hole

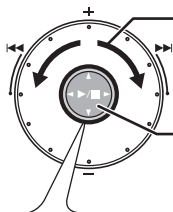


- |                       |               |                     |           |                           |
|-----------------------|---------------|---------------------|-----------|---------------------------|
| ① Built-in microphone | ④ Stop        | ⑦ Erase             | ⑨ Hold    | ⑫ Headphone/earphone jack |
| ② Recording indicator | ⑤ Display     | ⑧ Quick search dial | ⑩ Speaker | ⑬ Battery cover           |
| ③ Record/pause        | ⑥ Folder/menu |                     |           |                           |



# How to use the quick search dial

## Basic operations



Ⓐ Dial:  
Turn the dial to right or  
left to select an item.

Ⓑ Joystick:  
Press to confirm the item.

● Avoid pressing too much when you turn the quick search dial.

## In this manual

Ⓐ: Turn [◀/▶].

Ⓑ: Press [▶/■] to confirm.

## 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  
right.

## Volume control

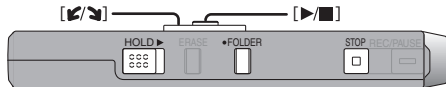


Ⓓ: Tilt the stick up and  
down.

Ⓒ: Tilt the joystick to [◀/▶].

Ⓓ: Tilt the joystick to [△/▽].

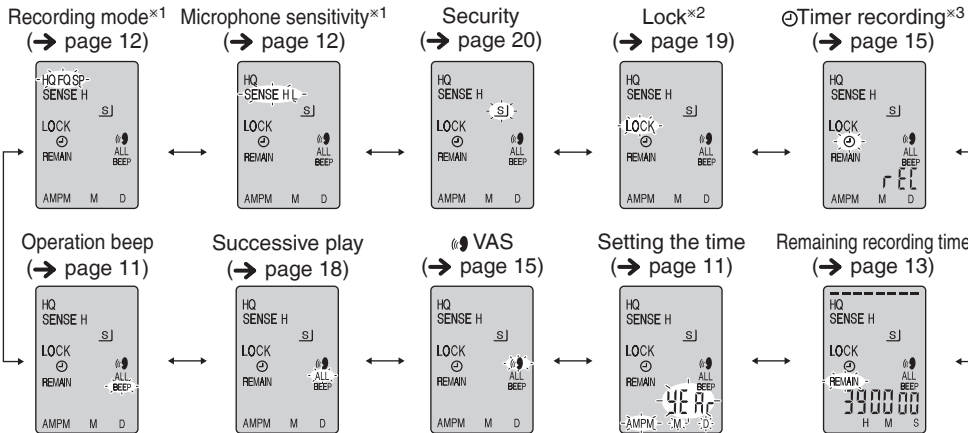
# List of menus



- 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.



\*<sup>1</sup> Displayed only when a Meeting Recording folder (A, B, C or S) is selected.

\*<sup>2</sup> Displayed only when there is a recorded file.

\*<sup>3</sup> Displayed only when the clock is set.

# Setting the time

- When the year is flashing (e.g. “2008” on the display), begin from step 4.

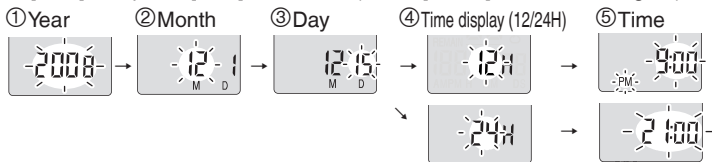
**1 Set Hold off**  
(→ page 4)

**2 Display the menu**  
While stopped, press and hold [•FOLDER/– MENU] for 1 second or longer.

**3 Select “YE AR”**  
Turn [↙/↘] to select “YE AR” and press [▶/■] to confirm.

**4 Set the time**

Turn [↙/↘] and press [▶/■] to confirm. (Press [STOP] after confirming ⑤.)

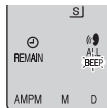


- The clock operates with the monthly error margin of +/- 60 seconds at room temperature.
- The clock returns to standby when you perform no time setting operation for 60 seconds. If this happens restart setting the time.

# Canceling the operation beep

**1 Display the menu**  
While stopped, press and hold [•FOLDER/– MENU] for 1 second or longer.

**2 Select “BEEP”**  
Turn [↙/↘] and press [▶/■] to confirm.



**3 Select “OFF”**  
① Turn [↙/↘] and press [▶/■] to confirm.  
② Press [STOP].

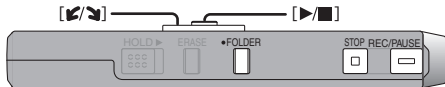


- To use the operation beep, select “ON” in step 3.

# Recording

## Meeting recording

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

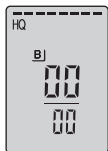


### 1 Select a Meeting Recording folder (A, B, C or S)

Press [•FOLDER/ - MENU].

Each time you press

A] → B] → C] → S]  
← M] ←



### 2 Display the recording mode menu

- 1 Press and hold [•FOLDER/ - MENU] for 1 second or longer.
- 2 After making sure the display at right, press [▶/■] to confirm.



### 3 Select the recording mode

- 1 Turn [◀/▶].  
HQ ↔ FQ ↔ SP
- 2 Press [▶/■] to confirm.



HQ: High quality  
FQ: Fine quality  
SP: Standard play  
● The factory setting is "HQ".

### 4 Select the microphone sensitivity level

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



H: Far  
L: Near

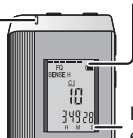
### 5 Record

Press [REC/PAUSE].

### Display during recording

Display changes depending on recording levels.

Light stays on while recording. (Flashes while paused.)



Recording elapsed time (Flashes while paused.)

## Dictation recording

As the dictation recording settings are all factory-set, dictation can be recorded quickly and simply.

### 1 Select folder M

Press [**FOLDER/**  
**- MENU**].

Each time you  
press

**A**]→**B**]→**C**]→**S**]  
          ↑          |  
          **M**          |



### 2 Record

Press  
[**REC/PAUSE**].

## Stop and pause

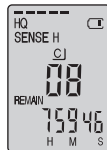
- Press [**STOP**] to stop recording.
- The following recording information is displayed when recording is stopped.

Recording date → Recording start time → Recording time → 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.)

## 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.

# Other recording methods

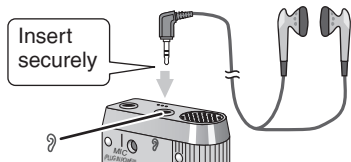
## ■ Listening to the recording in progress

Connect earphones (not included).

(Sounds are monaural.)

Plug type:  $\varnothing$  3.5 mm (1/8") mini plug

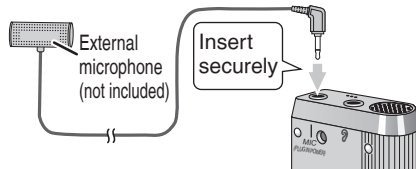
- The volume is fixed for recording.

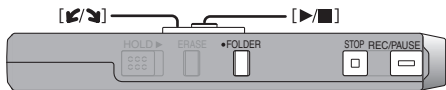


## ■ Recording through an external microphone

- When you attach an external microphone, the built-in microphone automatically goes off.

Plug type:  $\varnothing$  3.5 mm (1/8") monaural mini plug





## ■ Preventing unnecessary recording (VAS: Voice Activated System)

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

### 1 Display the menu

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

### 2 Select “☎”

Turn [↙/↘] and press [▶/■] to confirm.



### 3 Select “☎”

① Turn [↙/↘] and press [▶/■] to confirm.

② Press [STOP].



### 4 Record

(→ page 12) “☎” flashes when the VAS function is active.

❗ Turn the function off when recording important files.

● To turn the function off, select “☎ F F” 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 4).

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

### 1 Display the menu

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

### 2 Select “☎”

Turn [↙/↘] and press [▶/■] to confirm.



### 3 Select “☎”

Turn [↙/↘] and press [▶/■] to confirm.



### 4 Set the time

#### ① Start time

Turn [↙/↘] and press [▶/■] to confirm.



#### ② Finish time

Turn [↙/↘] and press [▶/■] to confirm.



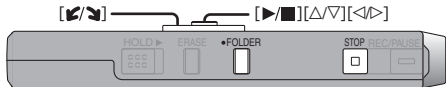
❗ You can stop timer recording in progress, but you cannot bring it to a pause.

● To confirm the recording start and finish time, perform step 2.

● To cancel the timer, select “☎ F F” in step 3.

● To close the menu, press [STOP].

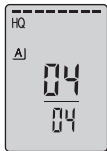
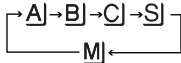
# Playing



## 1 Select the folder

Press [•FOLDER/– MENU].

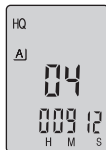
Each time you press:



## 2 Select the file

Turn [↖/↗].

- 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.

## ■ While a file is being played

### Adjusting the volume

Tilt the joystick to [△/▽]. (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 [◁].

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)

① Press [•FOLDER/– MENU] while playing.

② Turn [↖/↗] to select “EQ” (“EQ” flashes when selected) and press [▶/■] to confirm.

③ Turn [↖/↗] to select “EQ” and press [▶/■] to confirm.

● To cancel, select “EQ” in step ③.





# 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

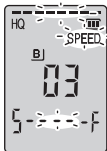
While playing, tilt the joystick to [◀/▶] and hold it in the position for 1 second or longer.

- 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 selected speed.

- The bar flashes when listening at a playback speed other than normal.



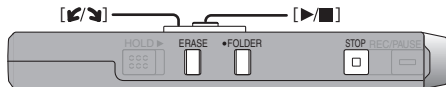
When playing back at the double speed

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

# Other playing methods

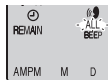
## ■ Playing files successively

Files stored in the same folder are played successively.



### 1 Display the menu

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



### 2 Select “ALL”

Turn [◀/▶] and press [▶/■] to confirm.

### 3 Select “ALL”

- ① Turn [◀/▶] and press [▶/■] to confirm.
- ② Press [STOP].



### 4 Play

Press [▶/■].

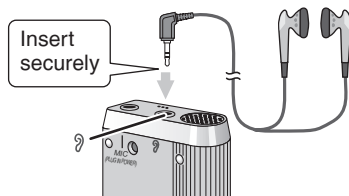


- The unit plays all files in order from the selected one to the last one.
- When the last file finishes, playback stops automatically.
- To cancel, select “FF F” in step 3.

## ■ Listening with earphones

Connect earphones (not included).  
(Sounds are monaural.)  
Plug type:  $\varnothing$  3.5 mm (1/8") mini plug

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



# Organizing files

■ **Deleting** (a file/ all files in a folder/ all folders except S/ all folders)

- 1 Display the deleting menu**  
Press [ERASE].
- 2 Select a file or folder**  
Turn [←/→].



Selecting a file



All files in a folder



All folders except S



All folders

- 3 Delete**  
Press and hold [ERASE] for 1 second or longer.



When a file is deleted.

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

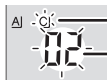
## ■ Moving

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.

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

- 1 Display the moving menu**  
Press and hold [•FOLDER/ - MENU] for 1 second or longer.
- 2 Select the destination folder**  
Turn [←/→].
- 3 Move**  
Press and hold [▶/■] for 1 second or longer.



Destination folder

Number of files in the destination folder

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

## ■ Lock (file protection)

**Preparation:** Select a folder containing a file to protect.

- 1 Display the menu**  
Press and hold [•FOLDER/ - MENU] for 1 second or longer.
- 2 Select "LOCK"**  
Turn [←/→] and press [▶/■] to confirm.
- 3 Select the file you want to lock**



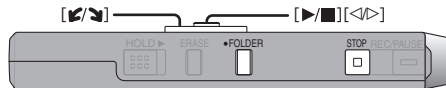
- ① Turn [←/→] and press [▶/■] to confirm.



- ② Press [STOP].

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

# Security function



This unit has a security function.

## MEMO

Password

### 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

#### 1 Display the menu

Press and hold [FOLDER/– MENU] for 1 second or longer.



#### 2 Select “ S1 ”

Turn [←/→] and press [▶/■] to confirm.



#### 3 Select “ 0n ”

Turn [←/→] and press [▶/■] to confirm.



#### 4 Set the password


- ① Turn [←/→] to select a number.
- ② Press [▶/■] to move to the next digit. After entering the fourth number, press [▶/■] to confirm.
- ③ Press [STOP].

**!** Write down the password in the MEMO space (above) to keep it in memory.

- To initialize the password, select “ 0000 ” in step **3** and enter the password you set.
- To move among digits, tilt the joystick to [◀/▶] in step **4**.

## Playback using the password

### 1 Select folder S

- ① Press [•FOLDER/  
-MENU].
- ② Select “”.

### 2 Select a file to be played

- ① Turn [/▶].
- ② Press [▶/■] to confirm.

### 3 Enter the password

- ① Enter the 4-digit password.
- ② Press [▶/■].

## When the password matches

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


## 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.
- ! 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.
- ! 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.

- ① Release all locks set on files in folder S (→ page 19).
- ② Delete all files in folder S. (Deleted files cannot be recovered.)
- ③ Enter the security menu and set the password as “ F F”.

## How folder S is displayed

-  Password is not set
-  Password is set
-  During password entry/ password release/playback
-  Password release to end in 10 seconds

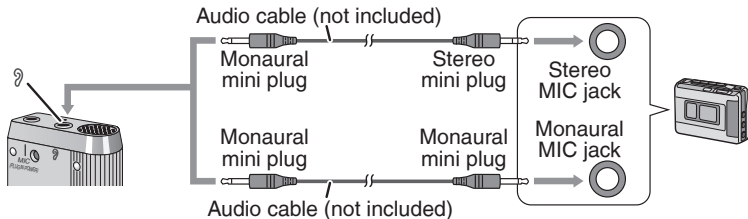
This security function is only to limit a playback function for files by password, not by encryption. We do not guarantee any kind of loss in case your password gets broken up.

# Recording to/from a cassette tape


Read the operating instructions for the connected equipment.

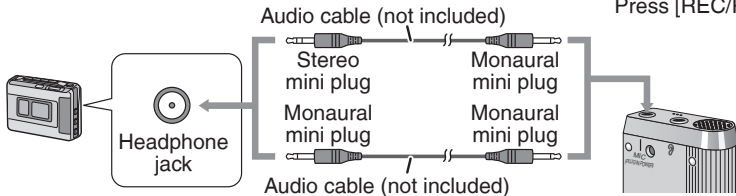
## ■ Recording to a cassette tape recorder etc.

Select the file to copy and play  **Record**



## ■ Recording from a cassette tape recorder etc.

Start playing  **Record**  
Press [REC/PAUSE]



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

# 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 33).

Symptom	Checkpoints
“U01” appears on the display.	<ul style="list-style-type: none"><li>• The battery has run down.</li></ul>
No operation.	<ul style="list-style-type: none"><li>• Make sure the batteries are correctly inserted.</li></ul>
Operation is not possible when “hold” appears on the display.	<ul style="list-style-type: none"><li>• The Hold function is on (→ pages 4 and 5).</li></ul>
“2008”, “12:00” flashes.	<ul style="list-style-type: none"><li>• Set the time. (→ page 11)</li></ul>
“EE:EE” is displayed.	<ul style="list-style-type: none"><li>• This can occur after repeatedly recording and deleting files. -Unlock all your files, then delete all folders to remedy this (→ page 19).</li></ul>
Available recording time does not increase correspondingly after deleting files.	
There is no sound from the earphone or it is difficult to hear or noisy.	<ul style="list-style-type: none"><li>• Ensure the plug is inserted firmly.</li><li>• Wipe the plug clean.</li></ul>
Recording stops.	<ul style="list-style-type: none"><li>• VAS may be functioning (→ page 15).</li></ul>
“-- --” appears instead of the recording date.	<ul style="list-style-type: none"><li>• Set the time (→ page 11).</li></ul>
Playback speed is too fast or slow.	<ul style="list-style-type: none"><li>• Set the play speed to normal (→ page 17).</li></ul>
A recording disappeared.	<ul style="list-style-type: none"><li>• Recordings can disappear if the unit receives a shock (e.g. it is dropped), or the batteries go out during recording.</li></ul>

# Troubleshooting guide

Symptom	Checkpoints
<b>“FULL” appears.</b>	<ul style="list-style-type: none"><li>• There are 99 files in the folder.</li><li>• There is no remaining recording time. -Delete unneeded files. (→ page 19)</li></ul>
<b>No sound from the speaker.</b>	<ul style="list-style-type: none"><li>• There is no sound when you have connected earphones.</li></ul>
<b>Cannot delete a file or folder.</b>	<ul style="list-style-type: none"><li>• The file is protected (→ page 19).</li><li>• The folder is already empty.</li></ul>
<b>Cannot move a file.</b>	<ul style="list-style-type: none"><li>• You cannot move files to folders that already contain 99 files.</li><li>• You cannot move files from folder A, B, C or S to the dictation folder.</li><li>• You cannot move files from folder S unless the password matches.</li></ul>
<b>Cannot play</b>	<ul style="list-style-type: none"><li>• 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).</li></ul>
<b>Cannot set timer recording.</b>	<ul style="list-style-type: none"><li>• The timer covers 24 hours from the present time only.</li><li>• You cannot set a recording period longer than 24 hours using the timer.</li><li>• Set the time (→ page 11).</li><li>• You cannot set the timer if there is less than 1 minute of available recording time.</li></ul>
<b>Timer recording does not work.</b>	<ul style="list-style-type: none"><li>• The settings are cancelled if the batteries are removed and the clock settings are cleared.</li><li>• Timer recording does not work if the unit is used for playback or another operation at a set time.</li><li>• Timer recording setting is canceled once timer recording is performed. Set the timer again when necessary (→ page 15).</li></ul>



Symptom	Checkpoints
Files created through timer recording are shorter than periods set with the timer.	<ul style="list-style-type: none"><li>• VAS may be “On” (→ page 15).</li></ul>
Cannot use a battery that can be still used on other equipment.	<ul style="list-style-type: none"><li>• 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.</li></ul>
Recorded sounds contain noise that makes them difficult to catch.	<ul style="list-style-type: none"><li>• Reduce noise (→ page 16). Noise is reduced and listening may become 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.)</li></ul>
Sound is distorted.	<ul style="list-style-type: none"><li>• Non-voice recordings such as music on CDs may become distorted in playback.</li></ul>
Howling occurs when listening to the recording in progress with the earphones.	<ul style="list-style-type: none"><li>• Keep the earphones and the microphone you are using separate.</li></ul>
I hear noises.	<ul style="list-style-type: none"><li>• Move the mobile telephone away from this unit when you use the two in the same area.</li></ul>

# Specifications

<b>Power requirement:</b>	DC 3.0 V (2 AAA size/LR03 batteries)
<b>Speaker output:</b>	300 mW (max.)
<b>Frequency response:</b>	300 Hz to 5,000 Hz (HQ mode) 300 Hz to 3,400 Hz (FQ mode) 300 Hz to 2,700 Hz (SP mode) 37 dB (HQ mode)
<b>Built-in Microphone S/N Ratio:</b>	
<b>Output jack:</b>	Earphone, $\varnothing$ 3.5 mm ( $1/8$ ""); 0.5 mW (max.) 16 $\Omega$
<b>Input jack:</b>	Mic, $\varnothing$ 3.5 mm ( $1/8$ ""); 0.56 mV plug in power
<b>Speaker:</b>	$\varnothing$ 20 mm ( $25/32$ "") 8 $\Omega$
<b>Dimensions (W x H x D):</b>	
<b>Max dimensions;</b>	39.3 mm x 105.5 mm x 17.2 mm ( $1-9/16$ " x $4-5/32$ " x $11/16$ "")
<b>Cabinet dimensions;</b>	38.8 mm x 105.0 mm x 14.0 mm ( $1-17/32$ " x $4-1/8$ " x $9/16$ "")
<b>Mass (Weight):</b>	
<b>With drycell batteries;</b>	Approx. 60.0 g (2.09 oz.)
<b>Without batteries;</b>	Approx. 37.0 g (1.29 oz.)
<b>Memory capacity</b> (MB means one million bytes. Usable capacity will be less.):	256 MB
<b>Operational temperature range:</b>	0 °C to 40 °C (32 °F to 104 °F)
<b>Operating Humidity:</b>	20 % to 80 % (non-condensing)
<b>Battery life:</b>	[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	12 hours	21 hours
		FQ/SP	15 hours	30 hours

- Specifications are subject to change without notice.

Product Identification Marking is located on the bottom of unit.

# Maintenance

## Clean this unit with a dry and soft cloth.

- If the unit becomes too dirty, wring a cloth moistened in water, wipe the dirt with it and clean with a dry cloth.
- Do not use solvents including benzene, thinner, alcohol, kitchen detergent, a chemical wiper, etc. This might cause the exterior case to be deformed or the coating to come off.

## -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.

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.

# 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  $\oplus$  and  $\ominus$  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.

## ■ 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.

# 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.
- 2. 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:

Refer to “Customer Services Directory” (→ page 33).

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

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 30.

The serial 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 RR-QR270

SERIAL NUMBER \_\_\_\_\_

**User memo:**

DATE OF PURCHASE \_\_\_\_\_

DEALER NAME \_\_\_\_\_

DEALER ADDRESS \_\_\_\_\_

TELEPHONE NUMBER \_\_\_\_\_

# Limited Warranty

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.**



### 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*

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](mailto: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

# MEMO



## **FCC Note:**

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules.

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

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

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

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Responsible Party:

Panasonic Corporation of North America  
One Panasonic Way  
Secaucus, NJ 07094

Support Contact:

Panasonic Consumer Electronics Company  
Telephone No.: 1-800-211-(PANA) 7262

**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.**

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

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