Panasonic®

Operating Instructions
IC Recorder

Model No. **RR-US360**

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.

CAUTION:
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.

Before use

Hint 1 Release hold before operation

Hold

● There is no power button.
● The unit returns to standby if there is no operation after 10 seconds have elapsed.
● Press [■] to stop the operation midway/cancel the setting.

Hint 2 Recorded contents are stored in folders

For MEETING
For DICTATION

A B C D

File
Folder
DICTATION

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

Recording/stop
Folder/menu
Meeting/dictation
Erase
Volume (+, −)
Play/enter [▶], stop [■], fast forward, rewind/select [◄◄ ▶▶]
Recording mode

Hint 3 Use HQ to record with high sound quality and SP for long recordings

Recording mode and recording time total of all folders

Long recording time
RR-QR380 / RR-QR360

	16 hours 30 minutes
	8 hours 30 minutes
	9 hours 40 minutes
	8 hours 40 minutes
	4 hours 40 minutes
	4 hours 50 minutes
	2 hours 20 minutes

SP (Standard play) / FQ (Fine quality) / HQ (High quality) **High quality sound**

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

File lock ※2 / Preventing unnecessary recording / Play speed / Continuous play
SPEEd

(While stopped)
● FOLDER/−MENU
Use [◄◄ ▶▶] to change the menu and [▶] to enter
SEnSE

Press and hold (More than 2 seconds)

Setting the time / Timer play ※3 / Timer recording ※3 / Operation beep
YEAr / PLAY / rEC / bEEP

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.

Recording

1 Select meeting or dictation recording
2 Select the folder
3 Select the recording mode
4 Select the microphone sensitivity
5 Recording (Monaural recording)

Meeting recording
MEETING
● FOLDER/−MENU   Each time you press A→B→C→D
Folder
REC MODE   Each time you press HQ→FQ→SP
Recording mode

Dictation recording
DICTATION

① ● FOLDER/−MENU   SEnSE
Press and hold
② [▶] (Enter)
③ [◄◄ ▶▶]   HI or LO   Recording (from a distance) / Recording up-close
④ [▶] (Enter)

REC/STOP (START REC) ...... REC/STOP (STOP REC) or [■]

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

When dictation recording, the following settings are automatically set.
(Dictation folder is set) / (HQ mode is set) / (Dictation recording mode is set)
Dictation folder

Other recording methods

Preventing unnecessary recording
VAS : voice activated system

Recording automatically pauses when there is no sound.
1 Enter the menu mode   ● FOLDER/−MENU **Press and hold**
2 Select " ♪ "   [◄◄ ▶▶] → [▶] (ENTER)
3 Select "On"   [◄◄ ▶▶] → [▶] (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)
● FOLDER/−MENU   ● Press again to return to the elapsed recording time display.
Available recording time
! Available recording time also appears when the remaining time becomes very short.

■ **Recording through an external microphone (not included)**
Plug type: 3.5 mm (⅛ in.) monaural (The built-in microphone switches off.)
Use a plug-in power compatible microphone monaural.

Preparation 1 Inserting batteries

Supplied accessories
USB cable (K1HA09BD0001)
CD-ROM (Voice Editing)
● Use numbers indicated when asking for replacement parts.

To order accessories, refer to "Accessory Purchases" on page 8.

AAA, LR03, AM-4 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 within 30 seconds to preserve the settings. Recordings remain intact.
Replace the batteries

Preparation 2 Setting the time

Flashes until the time is set.
● When the year is flashing (e.g. 2004), begin from step 3.

1 Enter the menu mode
● FOLDER/−MENU **Press and hold**
E.g.: Microphone sensitivity   SEnSE   ● A menu is displayed.

2 Select "yEAr"
Use [◄◄ ▶▶] to select   YEAr → [▶] (ENTER)

3 Set the time
■ Year   Use [◄◄ ▶▶] to select → [▶] (ENTER)
■ Month /day   Use [◄◄ ▶▶] to select → [▶] (ENTER)
■ Time display (12/24H)   Use [◄◄ ▶▶] to select → [▶] (ENTER)
■ Time   Use [◄◄ ▶▶] to select → [▶] (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.

Playing/Erasing

1 Select the folder
2 Select file or folder
3 Play/Erase

Playing
■ A–D folder
● FOLDER/−MENU   A→B→C→D
■ Dictation folder
(The dictation folder is selected)

Use [◄◄ ▶▶] to select → [▶] (Play)
After selecting, information at the time of recording is displayed.
File number
■ To adjust the volume (0–20)   VOL

Erasing
ERASE **Press and hold**   Use [◄◄ ▶▶] to select   ERASE (Erase)
■ Selected file
■ All files in a folder   ALL
■ All folders   ALL
! You cannot restore files you 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. (☞ page 4)

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 [▶] to resume play.)

■ **Listen to the first 5 seconds of each file (Intro scan)**
1 Select the folder (☞ page 2)   **2** Press and hold [▶]
(Press again to return to normal play)
! Repeat play settings are automatically canceled.

Other play methods

Changing the play speed (5 levels)
1 Enter the menu mode   ● FOLDER/−MENU **Press and hold**
2 Select "SPEEd"   [◄◄ ▶▶] → [▶] (ENTER)
3 Select the speed   [◄◄ ▶▶] → [▶] (ENTER)
(Slow) / (Fast)
■ To return to normal play
➡ While stopped, press and hold (more than 3 seconds) [■].
Plays the files in the folder continuously.

Continuous play
1 Enter the menu mode   ● FOLDER/−MENU **Press and hold**
2 Select " ▶ ↵ "   [◄◄ ▶▶] → [▶] (ENTER)
3 Select "On"   [◄◄ ▶▶] → [▶] (ENTER)
! Repeat play settings are automatically canceled.
■ To turn the function off ➡ select "OFF" in step 3.

■ **Displaying the remaining play time**
(During playing)
● FOLDER/−MENU   ● Press again to return to the elapsed play time display.
Remaining play time

■ **Listening with the earphones (not included)**
Plug type: 3.5 mm (⅛ in.) monaural

Organizing

Move
1 Play a file   (Play the file you want to move)
2 Enter the move mode   ● FOLDER/−MENU **Press and hold**   Destination folder   Number of files in destination folder
3 Select the destination folder   Use [◄◄ ▶▶] to select
4 Move   [▶] (ENTER)
! You cannot move a file from A–D folder to the dictation folder.

File lock
1 Select the folder
■ A–D folder   ● FOLDER/−MENU
■ Dictation folder
2 Enter the menu mode   ● FOLDER/−MENU **Press and hold**
3 Select " 🔒 "   Use [◄◄ ▶▶] to select → [▶] (ENTER)
4 Select the file   Use [◄◄ ▶▶] to select → [▶] (ENTER)
5 Lock
■ To unlock ➡ Do the above steps and select the file to unlock in step 4 and press [▶].

Saving (dubbing)

Recording to a cassette tape recorder
Select the file to dub and play   [▶]
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

Recording from a cassette tape recorder
Select the track to dub and play
Recording   MIC (PLUG IN POWER)   REC/STOP
Audio cable (not included)   Monaural mini plug — Stereo mini plug
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

Various functions

Timer recording

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

1 Enter the menu mode 2 Select "●☼, rEC" 3 Set the time

• FOLDER
– MENU

Press and hold

[I◀◀ ▶▶I] → [▶] → ① Use [I◀◀ ▶▶I] to select "On"
(ENTER)   (ENTER)

② Use [I◀◀ ▶▶I] to select the start time → [▶]
(ENTER)

③ Use [I◀◀ ▶▶I] to select the end time → [▶]
(ENTER)

Timer play

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

1 Enter the menu mode 2 Select "▶☼, PLAy" 3 Set the time

• FOLDER
– MENU

Press and hold

[I◀◀ ▶▶I] → [▶] → ① Use [I◀◀ ▶▶I] to select "On"
(ENTER)   (ENTER)

② Use [I◀◀ ▶▶I] 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.

Various functions

Canceling the operation beep

1 Enter the menu mode 2 Select "bEEP" 3 Select "OFF"

• FOLDER
– MENU

Press and hold

[I◀◀ ▶▶I] → [▶] → [I◀◀ ▶▶I] → [▶]
(ENTER)   (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.

move up ▲ HOLD

■ To release ⬇ move down

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

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

hold

Part names

Display

- External microphone jack
- Earphone jack
- Hold
- Clip
- Battery cover
- Display
- Handstrap hole
- Folder/menu
- Erase
- Play/enter [▶], stop [■], fast forward, rewind/select [I◀◀ ▶▶I]
- Speaker
- USB connector [⟷]

- Built-in microphone
- Recording indicator
- Recording/stop
- Meeting/dictation
- Volume (+, –)
- Recording mode

Display (left):
- 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)

Using the unit with a computer

1 **Install Voice Editing.**
For details, read the installation instructions for Voice Editing. (☞ page 5)

2 **Connect this unit to a computer with the USB cable.**
This unit can not be operated.

USB cable (included)

! 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.

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

Installing Voice Editing Ver.1.0 Standard Edition

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

■ Installing Voice Editing

1 **Start Windows.**

2 **Insert the included CD-ROM 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\VEdV1Launcher.exe" and click on "OK".
※ is the CD-ROM drive ID.

3 **Follow the on-screen instructions.**

4 **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.
• Uninstall the following before installing Voice Editing. 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
• 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 (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
• Approximately 25 MB of additional free hard disk space when installing Acrobat® Reader®(included) .
• Approximately 50 MB of additional free hard disk space when installing DirectX® R9.0b (included) .
• Additional free hard disk space may be necessary depending on the Windows® version and voice file being used.
• Temporary additional free hard disk space may be necessary when using the Waveform feature function.
Drive : CD-ROM drive (for installation)
Sound : Windows compatible sound device
Display : High Color (16 bit) or more. Desktop resolution of 800 x 600 pixels or more. (1024 x 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 very 64-bit computers.
• Even if the system requirements mentioned in these operating instructions are full filled, some personal computers can not be used.
• This software may not run properly on home-made computers.

Necessary software :
DirectX® 8.1 or later / Internet Explorer 5.5 or later

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, see " Product information" below for assistance.

Symptom	Checkpoints
No operation.	● 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 ● You cannot operate when the unit is connected to a computer.
"U01" appears on the display.	● The battery has run down.
"2004" flashes.	● Set the time. (☞ page 1)
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 (☞ page 4) may have functioned.
"– – – –" appears instead of the recording date.	● Set the time. (☞ page 1)
Playback speed is too fast or slow.	● Set play speed to normal. (☞ page 4)
"FULL" appears.	● There are 99 files in the folder. ● There is no remaining recording time. – Erase unneeded files. (☞ page 2, 3)
No sound from the speaker.	● There is no sound when you have connected an earphone.
Cannot erase a file or folder.	● The file is locked. (☞ page 2, 3) ● The folder is already empty.
Cannot move a file.	● You cannot move files to folders that already contain 99 files. ● You cannot move files from A–D folder to the Dictation folder. (☞ page 3)
A recording disappeared.	● 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.	● 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.	● You can set the timers within 24 hours of the current time. ● Set the time. (☞ page 1)
Timer recording/playback does not work.	● The settings are canceled if the batteries are removed and the clock settings clear.
Cannot set timer recording/playback at the same time.	● When you set both, only the one you set last works.
Timer recording does not work.	● 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.	● 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.	● Press [●FOLDER/←MENU] briefly. You will enter the menu mode if you hold the button down for 2 or more seconds.
Sound is distorted.	● When sound other than voice is recorded, this may occur during playback.
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. 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.

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" on page 8.
For assistance in the continental U.S.A. in obtaining repairs please ship the product to:
Panasonic Services Company - Customer Servicenter
Suite B 4900 George McVay Drive
McAllen, TX 78503
In Puerto Rico contact the Panasonic Sales Company.
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 above address.

The serial number of this product can be found on the back of the cassette compartment cover or inside the battery compartment.
Please note it in the space provided below and keep as a permanent record of your purchase to aid identification in the event of theft.
MODEL NUMBER   **RR-US360**
SERIAL NUMBER

User memo:
DATE OF PURCHASE
DEALER NAME
DEALER ADDRESS

TELEPHONE NUMBER

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● Adobe and its logo, Acrobat, and Acrobat Reader are trademarks of Adobe Systems Incorporated.
● 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.

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 (⅛ in.); 0.5 mW 16 Ω
Input jack: Mic, 3.5 mm (⅛ in.); 0.56 mV plug in power
Speaker: 28 mm (1³⁄₃₂ in.) 8 Ω
Power requirement: DC 3 V
2 AAA size (LR03, AM-4) batteries
Dimensions (W×H×D):
Max dimensions: 35.0 × 100.2 × 24.0 mm
(1³⁄₃₂ × 3¹⁵⁄₁₆ × ¹⁵⁄₁₆ in.)
Cabinet dimensions: 32.8 × 99.3 × 22.5 mm
(1⁹⁄₃₂ × 3²⁹⁄₃₂ × ⁷⁄₈ in.)
Mass:
with batteries: About 62 g (2.2 oz.)
without batteries: About 39 g (1.4 oz.)
Operational temperature range:
0 °C – 40 °C (32 °F – 104 °F)

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

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

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

Note:
● Specifications are subject to change without notice.
● Mass and dimensions are approximate.

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.
● Keep out of the reach of small children. Accidental swallowing of batteries can result in stomach and intestinal damage.

■ 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.

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

Panasonic Sales Company, Division of Matsushita Electric of 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 Sales Company (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 Services Company
Customer Servicenter
Suite B
4900 George McVay Drive
McAllen, TX 78503
For assistance in Puerto Rico call Panasonic Sales Company (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. 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.pasc.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 8 pm, EST.)
Panasonic Services 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

Service in Puerto Rico

Matsushita Electric of Puerto Rico, Inc. Panasonic Sales Company/Factory Servicenter:
Ave. 65 de Infantería, Km. 9.5, San Gabriel Industrial Park, Carolina, Puerto Rico 00985
Phone (787)750-4300, Fax (787)768-2910