

Panasonic

Operating Instructions IC Recorder

Model No. RR-US550 RR-US510

The illustration shows RR-US550.

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.



Features

Recording





Meeting

Lesson Lecture Dictation

Playing back to listen

- Recorded file
- MP3 music file





(not included)

Connecting this unit to a computer

Using a computer

 Copy/Organize (Delete) recorded files/ Play back to listen

From a computer

Transfer MP3 music files



Supplied accessories



Please check and identify the supplied accessories.

Use numbers indicated in parentheses when asking for replacement parts.

(Product numbers correct as of December

2008. These may be subject to change.)

(For the United Kingdom and Republic of Ireland)
To order accessories, refer to "Sales and

Support Information" (→ page 36).

□1 USB cable [K2KZ4CB00012]

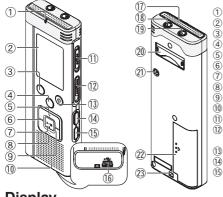
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Part names

Main unit



- 1) Recording indicator (red)
- ② LCD display ③ FOLDER
- (4) STOP
- 5 + (Volume)
- ⑥ ◄◄ (Fast backward)
- (7) ►/■ (Play/Stop/Enter) (Volume)
- (Fast forward)
- 10 Built-in speaker
- (II) OPR/HOLD
- 12 Recording position switch (ZOOM/NORMAL/MANUAL)
- (13) REC/PAUSE
- (14) •MFNU/-RFPFAT (15) ERASE

- 16 USB jack
- (17) Built-in microphone
- (18) External microphone jack (MIC)
- (9) Headphone/earphone jack (2)
- 20 Stand

When you perform zoom recording with the unit placed on the desk, etc., stable zoom effect can be obtained by putting up the stand.



- 21 Zoom microphone 22 Battery cover
- 23 Hand strap hole

Display



Remaining memory/Recording level XPLPSLP: Recording mode

MICull: Microphone sensitivity

File number

◆BS : Slight return playback

: Noise reduction

SPEED: Playback speed control FORMAT: Formatting

A| B| C| D| J : Folder

700M: Zoom recording

ALL A-B : Successive/Repeat play

: Security LOCK: File protection (S : VAS recording

: Delete

o : Operation beep

: Battery indicator

RFMAIN: Possible remaining recording time

Recording (Playback) elapsed time/Possible remaining recording time/Remaining playback time/Current time etc. Clock/Recording (Playback) time/Recording date

Inserting the batteries





Make sure the batteries face the right direction.

Use alkaline batteries.

The remaining battery display shown below is displayed while recording or playing.

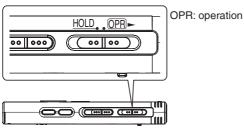
- If the batteries run out, "—" blinks. Replace the batteries as soon as possible.
- Remove the batteries from the unit if you will not use it for a long period of time.
- Please replace batteries within approx. 30 seconds for preservation of the clock data.

Make sure to turn the power off before removing the batteries.

 If the batteries are removed while recording, deleting, etc, all data on this unit may be lost or this unit may be destroyed.

Turning ON/OFF the Power

OPERATION/HOLD Switch



Turning the power ON

 Slide OPERATION/HOLD switch to OPE side, then the power turns on and the display lights on.

Turning the power OFF

 Slide and hold OPERATION/HOLD switch to OPEside for 2 seconds.

Also, when you do not operate the unit for more than approx. 15 minutes while the unit is stopped, "hulf" is displayed and the power automatically turns off

• When batteries are inserted for the first time, "CLOCK" blinks on the display. Please set the time (→ page 7).

Hold function

Button operations are ignored when you set Hold on.

Switching Hold on/off



• When the Hold function is on, button operation is ignored even if the unit is on ("hū 'la" is displayed). Accordingly, operation mistakes (i.e. Recording or playback stops midway.) can be prevented.

When the power is turned on, "CLOCK" blinks on the display when the time is not set (e.g. at the time of purchase). (In power-on condition, the display changes to "[Linu" (blinking) in approx. 1 minute.)

The clock is used for preserving recording date. Please set the time first.

Recording is possible even if the clock is not set. However, the Recording date, Recording start time will be displayed as "---".



When "CLOCK" is blinking

- Turn the power on (→ page 6).
- Press ►/■.
- Press +, to set the year and press ▶/■ to enter.

Set month and day in the same way.



The above illustration is a display example.

Press |◀◀, ▶▶| to select the time display and press ▶/■ to enter.



24-hour display 12-hour display

Press +, – to set the time and press ▶/■ to enter.

You can adjust the time quickly by pressing and holding +, -.



Linn CLOCK 12-hour display

When the time display is "[[] [] (blinking) or you change the time

- Turn the power on (→ page 6).
- Press to stop the unit.
- Press *MENU-REPEAT .

 "XPLPSLP" (blinking) or "CLOCK" (blinking) is displayed.
 - Press +, to select "CLOCK" and press ▶/■ to enter.

 If "CLOCK" blinks, press ▶/■ to enter.
- 3 Follow step 2, 3 and 4 shown at left.
- Press to stop the setting process midway.
- The clock operates with the monthly loss/gain of approx. 60 seconds at normal temperature.
- The time setting is cleared, if the battery has been consumed completely.

This unit has 3 recording setting items related to recording quality. Using different combinations of recording settings, you can adjust audio quality according to recording situations.

Recording setting item	Setting contents and display			
Recording mode	High-quality		1	: XP
(→ page 15)	Long recording		↓	: SLP
Microphone sensitivity (→ page 14)	High Normal Low	: MI : MI : MI	Cul	
Zoom microphone (→ page 15)	Zoom microphone ON : ZOOM Zoom microphone OFF : No display			

The total possible recording time (→ page 40) changes according to the recording mode.

Switching recording position

This unit is equipped with 3 recording positions: [ZOOM], [NORMAL] and [MANUAL]. The [ZOOM] and [NORMAL] content settings are fixed while [MANUAL] content settings can be changed according to your preference. You can switch among the positions using Recording position switch.

Recording position	Setting contents (display) and situations		
ZOOM	For lessons, lectures, etc. (Recording the aimed person's voice).		
NORMAL			
	XP For dictation, etc.		
MANUAL	* [MANUAL] position has been set to be suitable for dictation at the time of purchase. You can change the setting according to your preference (→ pages 14, 15).		

You can change the recording mode (XP, LP, SLP) in all positions (→ page 15).



Recording

- Turn the power on (→ page 6).
- Press to stop the unit.
- Slide recording position switch to select a position.

Switch modes according to situations (→ page 8).

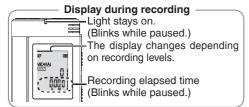
Select a folder for recording.

The folder is switched each time you press \bigcap Select among "AIBICIDI" (The factory setting is "<u>A</u>]").

When you select "", recording is automatically saved in "Al" (If the folder already contains 99 files, the next folder with recordable space is used).

Press (Recording starts).

Each time you press Pause *₹* Recording resumes



To stop: Press

Folder

[Folder] for this unit means locations in which recording (music) files are stored. There are 4 audio folders "AIBICIDI" and 1 music folder "J" in this unit.

Using each folder according to the purposes of recording enables you to search files easily later. A maximum of 99 files can be saved into each audio folder Al to Dl.

File

Recorded audio data from the starting point to the ending point is saved as a file.

The saved data is called a file.

- Even if you change the position of Recording position switch during recording, the setting will not be changed until the recording is complete.
- Change the recording mode as necessary (→ page 15).
- Do not block the holes of the zoom microphone and built-in microphone during recording (→ page 4).

Playing

FOLDER

- Press oto stop the unit.
- Select a folder (→ right).
- Select a file (→ right).



Adjusting the volume

Turn up the volume: Press +.
Turn down the volume: Press -.
Volume range is 0 to 20.
(The factory setting is 13.)

Operations during playback

Jump (Skip):

Press |◀◀, ▶▶|.

Press I midway while playing a file and the playback jumps to the beginning of the file. To return to the previous file, press I again within 1 second

Fast backward/Fast forward (Search):

Press and hold |◄◄, ▶▶|.

Stop: Press ▶/■ or ○.

Select a folder

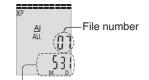
The folder is switched each time you press O.

Select among "A]", "B]", "C]", "D]", " Φ ". Select the folder that contains the file to play.

Select a file

Press |◀◀, ▶▶| to select.

Each time you press, the file number changes.



When a file is selected, the recording information below is displayed.

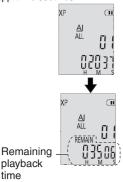
Recording date \to Recording start time \to Recording time \to Total number of files in the folder



Confirming the remaining time

Press and hold for 1 second or longer during playback.

The remaining time of the file being played is displayed for approx. 3 seconds.



The remaining playback time for the last approx. 3 seconds of file is not displayed.

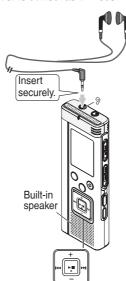
time

Listening to the audio using earphones

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

Plug type: ø 3.5 mm mini plug

Recommended additional earphones: Panasonic RP-HV250 (the product number is correct as of December 2008.)



Monitoring the recording progress

Adjusting the volume:

You can adjust the volume by pressing +, -, but the recording level is not affected

Listening to the audio during playback

The audio during playback comes from the speaker. Listening may be difficult in noisy places due to the speaker output. In that case, connect earphones (not included).

The built-in speaker is turned off when earphones are connected.

Deleting recorded files

- Select a folder (→ page 10).
- 1 Press while playing or the unit is stopped.



1 Deleting one file



② Deleting all files in one folder



③ Deleting all files in folder A through D



- FORMAT -

4 Deleting all files in all folders



- ⑤ Formatting this unit
 - nit
- ① to ④: Protected files and files which cannot be played back on this unit cannot be deleted

- Press ►/■ to enter.
- Press ◄ , ▶ to select "" and press ▶ / to enter.



When deleting is complete, "- -" is displayed.

It may take dozens of seconds until deleting is complete.

Formatting

If the unit is formatted, all existing files including protected files, music files, data files transferred from PCs, etc. are deleted.

- Deleted files cannot be recovered.
- You cannot delete a portion of a file.
- Press to stop the operation midway.
- The file numbers displayed on this unit are moved forward after deleting files.
- Both deleting and formatting data are not available when the remaining battery display shows "—" (blinking).



Locking recorded files (File protection)

Locked files cannot be deleted on this unit (except when formatting). Use this function to protect files.



- Select a folder (→ page 10).
- Press to stop the unit.
- Press · MENU/-REPEAT

"XPLPSLP" (blinking) is displayed.

Press +, - to select "LOCK" and press ▶/■ to enter.



- Press |◀◀, ▶▶| to select the file.
 - Selecting one file



2 Selecting all files in one folder



3 Selecting all files in all folders



- Press ►/■ to enter.
- Press ◄, ▶► to select "lin" and press ►/■ to enter.



Lock is performed.

It may take dozens of seconds until locking is complete.

To cancel lock:

Follow step 1 to 4, select "IFF" and enter in step 5.

- Press no stop the setting process midway.
- "LOCK" is displayed for the locked files when the file is selected.
- "LOCK" is not displayed when there is no file in the selected folder.
- You cannot lock files when the remaining battery display shows "[" (blinking).

Changing recording settings (Microphone sensitivity)

- Set the Recording position switch to [MANUAL] (→ page 8).
- Press
 to stop the unit.
- Press MENUI-REPEAT .

"XPLPSLP" (blinking) is displayed.

Press +, – to select "MC៧" and press ▶/■ to enter.



3 Press |◀◀, ▶▶| to select microphone sensitivity and press ▶/■ to enter.

MIC•	MIC4	MICH
Low	Normal	High

Recording position switch

Press of to stop the setting process midway.

STOP

MENU/—REPEAT

Changing recording settings (Zoom microphone/Recording mode (XP/LP/SLP))

Changing Zoom microphone setting

• MFNU/-REPEAT

Recording position switch

When the zoom is set to " $^{\rm n}_{\rm LI}$ ", the surrounding sound volume is lowered, and the sound in front is clearly recorded.



How to set the recording mode (XP/LP/SLP)

- Press of to stop the unit.
- Press *MENUI-REPEAT .

 "XPLPSLP" (blinking) is displayed.
- Press ►/■ to enter.
- 3 Press |◀◀, ▶▶| to select among "XP", "LP" and "SLP" and press ▶/■ to enter.

- Set the Recording position switch to [MANUAL] (→ page 8).
- Press to stop the unit.
- Press *MENU'-REPEAT .
 "XPLPSLP" (blinking) is displayed.
- Press +, to select " Z00M " and press ▶/■ to enter.
 - Press |◄◄, ▶▶| to select "ਰਿ" or "ਰਿਸ " and press ▶/■ to enter.

Zoom ON

מון מון

Zoom OFF



- Press of to stop the setting process midway.
- The zoom function does not work as long as a device is connected to the external microphone jack even if the zoom is set to ON on this unit.
- When you perform zoom recording with the unit placed on the desk, etc., we recommend putting up the stand (→ page 4).

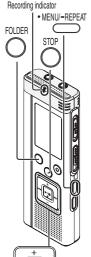
 If noise bothers you when recording/playing in SLP mode, use XP or LP mode.



Preventing unnecessary recording (VAS)/Confirming possible (remaining) recording time

VAS (Voice Activated System) function

Recording stops automatically when silence continues for about 3 seconds. If the unit detects sound, the recording resumes.



• Press oto stop the unit.

Press *MENU-REPEAT .

"XPLPSLP" (blinking) is displayed.

Press +, – to select "(((●)" and press ►/■ to enter.

Press ►/■ to select "ਯีก" and press ►/■ to enter.
Then "(() • " is displayed.

Start recording to activate this function. When the VAS function is active and the recording is paused during recording, "((())" and the recording indicator blink.

Cancelling VAS function:

Select "[[FF]" and enter in step 3.

- Turn the function off when recording important matters.
- Press

 to stop the setting process midway.

Confirming possible (remaining) recording time

1 Press and hold of for 1 second or longer while recording or stopped.

Remaining recording time

REMAIN

REMAIN

HOUR minute

Remaining recording time is displayed for approx. 3 seconds.

When there is only a little* remaining memory left while recording, the display is automatically changed to the remaining recording time display.

The "=" display while stopped shows approximate remaining memory.
"=" lights up in response to

the remaining time.

maining

When there is only a little* remaining memory left, "\(\equiv \) blinks.

 When the remaining recording time falls below approx. 1 hour.

Setting the playback speed control function

Playback speed can be adjusted at 5 different speeds.

MENU/-REPEAT

STOP

Press 'MENU/-REPEAT during playback.

"①" (blinking) and "SPEED" (lighting) are displayed.

(Only "SPEED" (blinking) is displayed when "①" is selected.)

Press ▶► to select "SPEED" and press ▶/■ to enter.



When pressing ▶►I, the playback speed becomes faster and "≡" (blinking) moves to the right. When pressing ◄◄, the playback speed becomes slower and "≡" (blinking) moves to the left.











Press ►/■ to enter.

- Press to stop the setting process midway.
- When playing with speed other than x 1 speed, the bar at the top blinks and "SPEED" lights up.
 - e.g. When playing back with × 0.75 speed

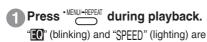


Reducing noise (EQ setting)/Slight return playback

Reducing noise (EQ setting)

This function makes it easier to hear sounds during playback.

You cannot make this setting when "J" is selected.



Press ▶/■ to enter.

displayed.

③ Press ◄◄, ▶► to select "♬ " and press ►/■ to enter.



After setting, "It is displayed while playing.

Cancelling Noise reduction (EQ setting):

Select "IFF" and enter in step 3.

Setting Slight return playback

Slight Return Playback function: When I◄
is pressed during playback, the play point
reverses about 5 seconds, and playback
resumes from the point.

- \bullet Press $\overset{\text{\tiny{STOP}}}{\bigcirc}$ to stop the unit.
- Press *MENU-REPEAT .

 "XPLPSLP" (blinking) is displayed.
- Press +, to select "<u>BS</u>" and press ►/■ to enter.

Then "eBS" is displayed.



BSC-

Cancelling Slight return playback: Select "IFF" and enter in step 3.

- Press to stop the setting process midway.
- Slight return playback cannot be done during A-B Repeat play (→ page 19).

MFNU/-RFPFA

STOP

Repeat play/Successive play, A-B Repeat play

ZOOM ALL

ПШ

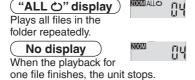
Repeat play/Successive play

Each time you press and hold *MENU/-REPEAT for 1 second or longer while stopped, the playback style is switched as follows.



MENU/-REPEAT

played successively. The unit stops when the playback finishes. (The factory setting is "ALL".)



Plays one file repeatedly.

"O" display

 Select one of the above settings and, press ▶/■ to start playback.

A-B Repeat play

Playback repeats between the start point (A) and finish point (B) if those points are set.

Press and hold MENU/-REPEAT second or longer while playing.

The start point (A) is set and "A-B" (blinking) and "C)" (lighting) are displayed.



Press *MENU/-REPEAT at the finish point (B).

The display changes to "A-R" (lighting) and repeat play starts.



Cancelling A-B Repeat:

Press and hold *MENU/-REPEAT for 1 second or longer, or press ► while playing or the unit is stopped.

- You cannot set A-B Repeat in the following cases:
- Within approx. 1 second from the beginning of the file and within approx. 2 seconds from the end of the file
- Less than approx. 2 seconds between the start point (A) and finish point (B)
- When only the start point (A) is set and playback continues until the end of the file, the end becomes the finish point (B) and A-B Repeat begins.
- During A-B Repeat playback, the Slight return. playback (-> page 18) is not available.

Security functions

If you set a password, password authentication is necessary when playing back this unit or connecting to a computer. When the unit is lost or stolen, the recorded data stored in this unit cannot be played or the computer does not recognise this unit as long as the password does not match.

 MFNU/-REPEAT STOP

If you forget the password, you cannot play files in folder A to D. Please write it down in MEMO section (\rightarrow right) not to forget.

Setting the password (4-digit number)

- Press on to stop the unit.
- Press *MENUI-REPEAT .

 "XPLPSLP" (blinking) is displayed.
- Press +, to select "⑤" and press ▶/■ to enter.
- Press | ◄◄, ▶▶| to select "☐ " and press ▶/■ to enter.
 Enters the password entry display.



Press +, – to select a number and press ▶/■ to enter.

Move to the next digit and select a number. Repeat this until the 4th digit. (You can select a digit with |◄◄, ▶►!.) The password is determined when you finish entering the 4th digit. Then "ှ\$" is displayed.

MEMO

Password

If the password has been set and you press ▶/■ to play a file, the password entry display appears (→ page 21).

Cancelling the security lock:

- 1) Select "IFF" and enter in step 3).
- 2 Perform step 4. (Enter the password.)
- Press of to stop the setting process midway.
- To change the password, cancel the security lock and set a password again from step 1.

Authenticating the password

Perform step ② in page 20. (Enter the password.)



■When the password matches

- The security lock is temporarily released and the audio file can be played. ("S" blinks while temporarily cancelling.)
- In the condition (A), the security lock is set again.
 - (A)
 - When you do not operate for more than approx. 15 minutes and the power turns off while the unit is stopped (→ page 6)
 - When the unit is off for more than approx. 15 minutes

■When the password is wrong

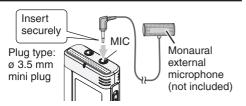
The unit beeps and "PRS [rr" is displayed, then the password entry display reappears. When wrong passwords are entered 5 times in succession, the unit stops accepting password entry. In that case, reenter the password in the condition (a) (→ above).

■ When you have forgotten the password

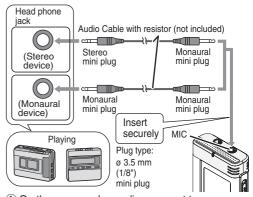
To initialize the password, delete all files.

- Release all locks set on files in folder A through D (→ page 13).
- ② Delete all files in folder A through D(→ page 12).
- ③ Select "☐ FF" in step ③ of "Setting the password (4-digit number)" and press ►/■ to enter (→ page 20).
- If this unit is connected to a computer when the security lock is not cancelled, the computer does not recognise this unit. After connecting the USB cable, the password entry display appears. Then, authenticate the password.
- Even if the security lock is not cancelled, recording and playing music are available.

Recording using an external microphone/Recording from other devices Recording using an external microphone Recording from other devices



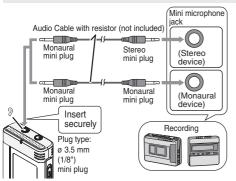
- Record the audio (→ page 9).
- If the recording level is too low or high, adjust the microphone sensitivity (→ page 14).



- ① On the source, play audio you want to copy.
- ② On this unit, record the audio (→ page 9).
- Use the connection cable that matches monaural/stereo
 of the connected device. Wrong connection may cause
 recording trouble (i.e. Only 1 channel is recorded.).
- The recorded sound may differ from the original recording sound.
- Adjust the recording volume on the source to the desired level.
- Read the operating instructions for the connected device.
 - The microphone function of this unit does not work as long as a device is connected to the external microphone jack.

Recording to other devices

Cancel the operation beep while copying (→ right).



- On this unit, play the file you want to copy (→ page 10).
- 2 Record using recording equipment.
- Read the operating instructions for the connected device.
- Use the connection cable that matches monaural/stereo. of the connected device. Wrong connection may cause recording trouble (i.e. Only 1 channel is recorded.).
- The recorded sound quality may differ from the sound quality of this unit.
- Adjust the recording volume on this unit to the desired level

Cancelling the operation beep

- Press to stop the unit.
- Press MENU/-REPEAT • MENU/-REPEAT "XPLPSLP" (blinking) is displayed.
 - Press +, to select "o" and press ▶/■ to enter.



Press | ◀◀, ▶▶ to select "IFF" and press ►/■ to enter.

Setting the operation beep ON:

Select "In" and enter in step 3.



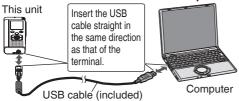
STOP

Press to stop the setting process midway.

Connecting this unit to a computer

You can copy files recorded on this unit to the computer.

- Start the computer beforehand.
- Press to stop the unit.
- 1. Insert the USB cable into this unit.
- 2. Insert the USB cable into the computer.



 \bullet Do not use any other USB connection cables except the supplied one. " $P_{L^n}^{r}$ is displayed on the unit's screen when the computer recognises this unit.

Use the supplied USB cable.

Do not use the supplied cable with other devices.

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

When the computer does not recognise this unit

If " Page 21).

If a page 21).

If ""I\"\" b--n\" is displayed, disconnect this unit from the computer once, replace the batteries and reconnect the unit to the computer.

• Even if you connect this unit to the computer without the battery or with the depleted battery, the computer cannot recognise this unit (→ page 33).

■ System requirements (OS) Windows 2000 (SP4), Windows XP and SP2, SP3, Windows Vista and SP1 (As of December 2008)

Please see page 31 for details of system requirements.

■ Removing the USB cable

Double-click the icon (Windows 2000/Windows XP: [], Windows Vista: []) on the task tray at the bottom of the computer screen and follow the on-screen instructions to remove the USB cable. (The icon may not be displayed depending on the OS settings.)

After the cable is removed, this unit turns off.

■ USB mass storage function

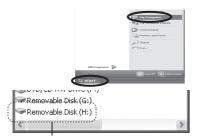
This unit functions as a USB memory and is recognised as a computer's external storage device.

Data files in the computer can be transferred and saved in this unit.

- When the unit is connected to the computer, the computer may not start (restart). It is recommended that the USB cable is removed from this unit when starting (restarting) the computer.
- When the unit is connected to the computer, if you start (restart) the computer or the computer enters standby mode, the computer may not recognise the unit. Disconnect the unit and reconnect to the computer or reconnect the unit after the computer is restarted.
- Operation is not guaranteed when 2 or more USB devices are connected to 1 computer, or a USB hub or extension cable are used.
- Please see the Operating Instructions for the computer.

The illustrations show Windows XP (OS). The display may differ depending on the OS.

- Connect this unit to a Computer beforehand (→ page 24).
- Click [Start] → [My Computer].
 This unit is displayed as a removable disk.



A removable disk is an external storage device (SD memory card, USB memory etc.) connected to the computer.

The components of the computer and the external storage device illustrated here is an example.

The display may differ depending on the computer you are using.

"H" indicated in Removable Disk (H:) is not a fixed character.

2. Right-click to open the removable disk (this unit).

The folders (A to D, MUSIC) in this unit appear. (They are displayed as ABCDD on this unit's screen.)



3. Right-click to open the folder. Recorded files in this unit appear.



Importing the recorded files in this unit to a computer/Organizing files

 Open the removable disk (this unit) displayed on the computer screen and open the audio folder (A to D) beforehand (>> page 25).

Importing recorded files to a computer

- Select the recorded file in this unit, rightclick and select [Copy].
- 2. Select a folder in the computer, right-click and select [Paste] to import to the computer.

Folder in this unit

Folder in the computer



Playing recorded files on the computer:

Select the recorded file in this unit, right-click and select [Play].

Delete unnecessary files using the computer:

Select the recorded file in this unit, right-click, select [Delete] and [Yes] to enter.

Do not change the folder names

If you change the names of folders (A, B, C, D, MUSIC) of this unit, new A, B, C, D and MUSIC folders are generated when this unit is disconnected from the computer. The files in the folders with changed names cannot be played on this unit.

- Using [drag and drop], you can import the files to the computer as well.
- If the file is deleted, file numbers displayed on this unit are moved forward.
- "P[" (blinking) is displayed during the data transmission. Never remove the USB cable while "P[" is blinking. File data or this unit may be destroyed, or all the data in this unit may be lost.
- When this unit is removed from the computer or the power is turned on afterwards, "[[F]" is displayed for a moment while updating the file data.
- Do not format this unit using a computer.

• Open the audio folder (A to D) of this unit beforehand (→ page 25).

Returning recorded files to this unit from the computer

- Select the recorded file imported to the computer (→ page 26), right-click and select [Copy].
- 2. Select the original folder in this unit, right-click and select [Paste] to return the recorded file.



Reload the files to the original folder that the files were imported from. When you reload the files to other folders, those files cannot be played on this unit. (Confirm the first character (A to D) of the file name matches the folder name (A to D).)

Do not change the file names

If you change file names, those files cannot be played on this unit. Return the file name to the original one or move the file to MUSIC folder.

- MP3 music files which were not recorded on this unit can be played only in MUSIC folder. If the file is returned to folder A to D, it cannot be played on this unit. (The file number is not displayed on the screen of this unit.)
- Up to 99 files in folder A to D respectively can be played on this unit. Files over 99 cannot be played on this unit.
- If you create folders in folder A to D, and put recorded files in the new folder, those files cannot be played on this unit.
- The files that are returned to this unit are played back in the order the files are received. For example, even if the file is recorded first, the playback order becomes 5th if the file is reloaded from the computer at 5th.

File naming rules (for recorded files on this unit)

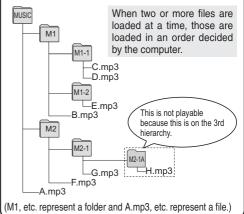
The file name consists of [Folder name (1 byte, 1 character (A to D)) + File number (1 byte, 3 characters + Recording date (1 byte, 4 numbers)].
e.g. if the file is recorded as the first file in folder A on July 20, the name is "A0010720.mp3". The second file on the same day is named as "A0020720.mp3".

Transferring MP3 music files to this unit from the computer

- Open MUSIC folder (△) of this unit beforehand (→ page 25).
- Select an MP3 music file or folder which has MP3 music files in the computer, rightclick and select [Copy].
- 2. Select MUSIC folder of this unit, right-click and select [Paste] to transfer to this unit.
- The files in the folder that was created into the MUSIC folder are playable. However, note that playable folders are the ones on the 1st hierarchy and 2nd hierarchy only. Folders on the 3rd hierarchy and after are not playable.
- The audio files and folders that are loaded to this unit are played back in the order the files and folders are received. But in case of the structure at right, files in M2 are played after all files in M1 are played since the loaded order of 1st hierarchy takes priority. Even if M1-2 is loaded after M2-1, the files in M1-2 are played first.
- Files just under the folder are played first; e.g., even if A.mp3 was loaded last, A.mp3 is played first.
- In the case of the structure shown at right, the order of successive playback on this unit is A.mp3 → B.mp3 → C.mp3 → D.mp3 → E.mp3 → F.mp3 → G.mp3.

Folder/file structure in MUSIC folder (example)

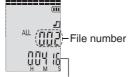
This is an example when M1 was loaded before M2 for M1 and M2, M1-1 was loaded before M1-2 for M1-1 and M1-2, C.mp3 was loaded before D.mp3 for C.mp3 and D.mp3.



"P[" (blinking) is displayed during data transmission. Never remove the USB cable while "P[" is blinking. File data or this unit may be destroyed.

Listening to music on this unit (Playing MP3 music files on this unit)

- Remove the USB cable (→ page 24).
- Turn the power on (→ page 6).
- Press oto stop the unit.
- Press on to select "1" (MUSIC folder).
- Press |◀◀, ▶▶| to select the file you want to listen.



After selection, the length of the music and the total number of files in MUSIC folder are displayed.

Press ►/■ (Playback starts).

Stop:

FOLDER

Press ▶/■ or Ŏ.

- See pages 10 and 11 for playback operations.
- In "J" folder, you can play a maximum of 999 files. Files over 999 cannot be played on this unit.
- The file name or folder name cannot be displayed. Successive numbers, starting from """ (file number) are displayed according to the order of playback.
- Files other than files with MP3 format, such as WMA, AAC format files cannot be played. (The number is not displayed on screen.)
- Copyright-protected MP3 music files cannot be played.
- MP3 music files with variable bit rate may be played, but the playback elapsed time display may differ from the actual time.

This unit is not equipped with the function or computer software to create MP3 file from music CD. You can create MP3 music files using separately sold computer software, etc.

Windows XP or Windows Vista users can create MP3 music files using Windows Media Player 11. Following is the example of operating instructions when using Windows XP and Windows Media Player 11. See [Help] section of Windows Media Player for more details. (The display and operations may differ depending on the OS.)

- Start the computer beforehand.
- Select [Start] [All Programs] and start [Windows Media Player] on the computer.
- 2. Select [Rip] \rightarrow [Format] \rightarrow [mp3].
- Select [Rip] → [Bit Rate] and select among [128kbps] (Smallest Size), [192kbps], [256kbps] and [320kbps] (Best Quality).
 If you select low Bit Rate for ripping, more songs will be ripped.
- 4. Select [Rip] → [Rip CD Automatically When Inserted] and select [Never].
- 5. Set music CD into the computer.
- 6. In "☐" for the album, add the check mark as "☑".
 - If there are songs you do not want to rip, remove the check mark "\(\sqrt{i}\)".
- 7. Click [Start Rip] to begin ripping.

Music files ripped (encoded) into the computer using Windows Media Player are saved in [My Music] folder of [My Document] if the destination to save has not been changed.

- Windows Media Player 9 and older versions cannot create MP3 music file.
- Please see the homepage of the Microsoft company for details of download/update of Windows Media Player etc. http://www.microsoft.com/windows/
- If you cannot create MP3 music files successfully or do not know how to operate the computer, please consult the computer manufacturer.

windowsmedia/player/11/default.aspx

• See page 28 for transferring MP3 music file to this unit and page 29 for playback.

System requirements

Computer	nputer IBM PC/AT compatible machines			
os	 Windows® 2000 Professional SP4 Windows® XP Home Edition/Professional and SP2, SP3 Windows Vista® Home Basic/Home Premium/Business/Ultimate and SP1 			
Interface	USB port (Operation cannot be guaranteed if you use a USB hub or extension cable.)			

- * Even if the system requirements mentioned in this document are fulfilled, some personal computers cannot be used.
- * Operation is guaranteed only on compliant OSes.
- * Operation is not guaranteed on an upgraded OS.
- * Not compatible with multiboot environments.
- * Operation is not guaranteed on home-made computers.
- * Operation is not guaranteed on 64-bit computers.
- * When using Windows Media® Player, your computer must fulfill the system requirements of Windows Media® Player. Please consult Microsoft Corporation for details of Windows Media® Player.
- Microsoft, Windows, Windows Media and Windows Vista are registered trademarks or trademarks of Microsoft Corporation of the U.S. and other countries.
- * MPEG Layer-3 audio coding technology licensed from Fraunhofer IIS and Thomson multimedia.
- * IBM and PC/AT are registered trademarks of International Business Machines Corporation of the U.S.
- ★ 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 ™ mark and ® mark do not appear in this document.
- * Depending on the computer environment, malfunctions may occur (e.g. Audio data recorded on this unit cannot be used. etc.). Panasonic and Panasonic dealers cannot be held liable for any lost audio data or other direct or indirect damage except in cases of intentional of gross negligence.
- * This model is not compatible with TRC/ADPCM format IC recorders made by Panasonic. Also, files recorded on this unit cannot be played on those IC recorders and/or cannot be read using Voice Editing software supplied with those IC recorders.
- * You can transfer contents recorded on this unit to your PC without using the dedicated software. The computer software (Voice Editing) is not supplied with this unit.

Q & A (Frequently Asked Questions)

Question	Answer		
Can I play recording files stored on Panasonic IC recorders (RR-US950 and RR-US750)?	 Can play if they are transferred to MUSIC folder (→ page 27). Cannot play because the recording format is different. 		
Can I play recording files stored on other Panasonic IC recorders than RR-US950 and RR-US750?			
Can I use audio editing software (Voice Editing) included in other Panasonic IC Recorder?	recording format differs from the format used for other Panasonic IC recorders. The recording format used for this product is MP3 format. This product is not compatible with the voice editing software (Voice Editing) supplied with Panasonic IC recorders using ADPCM and TRC format.		
Can I secure any folder in this unit?			
What kind of files can be played?	Only MP3 file can be played. WMA, AAC and other files cannot be played.		
What kind of computers can be connected with this unit?	 • Windows 2000 (SP4), Windows XP, Windows Vista only. Please refer to "System requirements" (→ page 31). • No, you cannot. 		
Can I do timer recording?			
Can I divide a file or delete a portion of a file?	No, you cannot.		

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, consult your dealer for instructions.

Symptom	Checkpoints			
Battery				
Cannot use a battery that can be still used on other equipment.	• This unit considers the battery as empty even if there is actually power left in it. This is to preserve the clock setting.			
Operations				
No operation.	 Make sure the batteries are correctly inserted. You cannot operate on this unit when the unit is connected to a computer. 			
Cannot operate when "h to to to appears.	 The Hold function is on. Switch Hold off (→ page 6). 			
Display				
"CLOCK", " ₩ blinks.	 Please set the time (→ page 7). 			
"ໂຟໄໄ" appears.	 There are 99 files in folder A, B, C, D. There is no remaining memory (→ page 40). Delete unnecessary recording files, files and data other than MP3 files (→ pages 12, 26). 			
• If the batteries are extremely exhausted, "إِنْ الله הְנֵי" is displayed unit is connected to the computer and the computer does not recunit. Disconnect this unit from the computer once, replace the batteries are not inserted, insert batteries.) (→ page 5) and reconnected.				
" (F)" appears.	This appears when updating data in this unit (e.g. after disconnecting this unit from the computer, when turning the power on, etc.).			
Normal display appears during setting operation.	 When you do not operate for 60 seconds during setting operation, the setting in process is cancelled and normal display appears. 			
"FRE Err" appears.	 Format was performed on a computer, etc., or the file system is damaged. Perform format on this unit (The data is all erased after formatting is complete.) (page 12). 			

Troubleshooting guide

Symptom	Checkpoints		
Display			
"ໂປໂ [ເເ" appears.	The operation program is damaged. Consult your dealer.		
"[rr" appears.	 You tried to play an MP3 file that cannot be played on this unit, or the MP3 file is damaged. Delete the MP3 file that cannot be played. If the problem persists, the file system is damaged. Perform format on this unit (The data is all erased after formatting is complete.) (→ page 12). 		
Record			
The memory is used completely earlier than expected. ("Fill!" is displayed earlier than expected.)	 Available recording time differs approx. 8 times, comparing XP mode with SLP mode (→ page 40). You can record longer if recording in SLP mode (→ page 15). If you lower the Bit Rate for ripping music CDs, more songs will be saved (→ page 30). Is much data other than MP3 stored? Delete unnecessary data (→ page 26). 		
Recording stops halfway.	VAS is functioning (→ page 16).		
Howling occurs when listening to the recording in progress with earphones.	 Turn down the volume (→ page 10). Keep earphones and this unit separate. When you are using an external microphone, keep earphones and external microphone separate. 		
Recording ended halfway.	The data may not be updated if the unit receives a shock (e.g. it is dropped), or the batteries go out during recording.		
"" appears instead of the recording date. • Set the time (→ page 7).			
"Z00M" is not displayed.	 You are using the external microphone (→ page 15). 		
Playing			
Cannot play the recorded file though it was recorded on this unit.	 The file name was changed. Only files named according to the file naming rules (→ page 27) can be played in folder A through D. 		

Symptom	Checkpoints			
Playing				
Playback speed is too fast or slow.	 You changed the playback speed (→ page 17). 			
The order of playing changed after reloading files that were once imported to the computer to this unit.	This occurs because files imported from the computer are placed at the end in the folder.			
There is no sound from the earphones or it is difficult to hear or noisy.	Ensure the plug is inserted firmly. Wipe the plug clean.			
The sound is distorted. There is a noise at the beginning of sound.	 Please lower the microphone sensitivity (page 14) or keep more distance from the recording sound source. 			
No sound from the speaker. • There is no sound when you have connected earphones.				
I hear noises. • Move a mobile telephone away from this unit when you use the two in th				
Recorded sounds contain noise that makes it difficult to hear sounds.	 Reduce noise (→ page 18). Noise is reduced and listening may become easier. 			
Others				
The power cannot be turned on.	 The batteries may have run out. Replace the batteries with the new ones (→ page 5). 			
The power automatically turns off.	 When you do not operate for more than approx. 15 minutes, the power automatically turns off. When you slide the OPERATION/HOLD switch to "OPE" - " side, the power is turned on (→ page 6). 			
Cannot delete a file or folder.	 The file is protected (→ page 13). The folder is already empty. "" (blinking) is displayed (→ page 12). 			
This unit is not recognised by a computer.	 The OS on the computer may not be compliant with this unit (→ page 31). The password has been set (→ page 21). Are the batteries in this unit? If they are not, insert batteries. When the voltage of the batteries are too low, "⊔\u00e4\u00b5			

Sales and Support Information

(For the United Kingdom and Republic of Ireland)

Customer Care Centre

- For customers within the UK: 0844 844 3852
- For customers within the Republic of Ireland: 01 289 8333
- Visit our website for product information
- E-mail: customer.care@panasonic.co.uk

Direct Sales at Panasonic UK

- For customers: 0844 844 3856
- 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 <u>www.panasonic.co.uk</u>.
- · 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.

Interested in purchasing an extended guarantee?

Please call 0870 240 6284 or visit our website www.panasonic.co.uk/guarantee.

-If you see this symbol-

Information for Users on Collection and Disposal of Old Equipment and used Batteries



These symbols on the products, packaging, and/or accompanying documents mean that used electrical and electronic products and batteries should not be mixed with general household waste. For proper treatment, recovery and recycling of old products and used batteries, please take them to applicable collection points, in accordance with your national legislation and the Directives 2002/96/EC and 2006/66/FC

By disposing of these products and batteries correctly, you 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.

For more information about collection and recycling of old products and batteries, please contact your local municipality, your waste disposal service or the point of sale where you purchased the items.

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]

These symbols are only valid in the European Union. If you wish to discard these items, please contact your local authorities or dealer and ask for the correct method of disposal.



Note for the battery symbol (bottom two symbol examples):

This symbol might be used in combination with a chemical symbol. In this case it complies with the requirement set by the Directive for the chemical involved.

Care and use

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

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 the AAA LR03 batteries out of reach of children to prevent swallowing. Accidental swallowing of batteries can result in stomach and intestinal damage.
- 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 batteries in the battery carrying case.

■ 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.

■ 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.

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.

Specifications

Power

Batteries	3	DC 3.0 V (2 AAA LR03 batteries)	
Audio			
Sampling Frequency		XP: 44.1 kHz LP: 16 kHz SLP: 8 kHz	
Recordin	ng Format	MP3	
Playable (MUSIC f		8 kbps to 320 kbps	
	ayable Sampling 8 kHz to 48 kHz equency (MUSIC Ider)		
	cy Response Rec-Play, I)	se XP: 180 Hz to 15,100 Hz LP: 180 Hz to 6,700 Hz SLP: 180 Hz to 2,900 Hz	
Built-in N S/N Ratio	Microphone	40.5 dB (XP) Filter (JIS A)	
USB		USB2.0 (Hi-Speed)	
Audio	Earphone	ø 3.5 mm, 16 Ω, Max. 3 mW	
Output	Speaker output	ø 20 mm, 8 Ω, Ma	x. 330 mW
Audio Input	External Microphone	ø 3.5 mm; 0.80 mV plug in power	

mpar inicrophone		
	RR-US550	RR-US510
Built-in Memory	512 MB*1	128 MB*1
Operating Temperature	0°C to 40°C	
Operating Humidity	20% to 80% (non-condensing	

*1 Usable capacity will be less.

Battery life (may be less depending on the operating conditions.)

Battery (AAA LR03)	Recording mode	Rec*3	Play*4
Alkaline battery*2	XP	approx.32 h.	approx.35 h.
	LP	approx.42 h.	approx.35 h.
	SLP	approx.45 h.	approx.35 h.

- *2 Using Panasonic Alkaline battery.
- *3 When zoom microphone is off.
- *4 When audio is output from speaker (Volume: 13, EQ: off, playback speed control : x 1)

Standard recordable time

Recording mode	RR-US550	RR-US510	Bit rate
XP	17 h.50 min.	4 h.10 min.	64 kbps
LP	35 h.40 min.	8 h.30 min.	32 kbps
SLP	142 h.50 min.	34 h.10 min.	8 kbps

Max. Dimensions (W × H × D)			
40.4 mm × 110.6 mm × 16.8 mm			
Cabinet dimensions (W × H × D)			
39.0 mm × 110.3 mm × 15.1 mm			
Mass			
Approx. 65 g with battery			
Approx. 43 g without battery			
_			

Specifications are subject to change without notice.

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.

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.

Excessive sound pressure from earphones and headphones can cause hearing loss.

Product Identification Marking is located on the bottom of unit.

MEMO

ONLY FOR AUSTRALIA

Panasonic Warranty

- The product is warranted for 12 months from the date of purchase. Subject to the conditions of this warranty Panasonre of its Authorised Service Centre will perform necessary service on the product without charge for parts or labour, if, if the opinion of Panasonic, the product is found to be faulty within the warranty period.
- This warranty only applies to Parasonic potenties purchased in Australia and sold by Parasonic Australia or its Authorised Distributions or Dealers and only where the products are used and serviced within Australia or its tentificate. Warranty cover only applies to service carried out by a Panasonic Authorised Service Centre and only "fivilia proof of purchase is presented when warranty service is requested."
- This warranty only applies if the product has been installed and used in accordance with the manufacturer's recommendation is sorbed in the operating instructions) under normal use and reasonable care (in the opinion of Panasonie). The warrant sorbes makes domestic uses only and does not cover damage, malfunction of failure resulting from use of incorrect undergase, moranted installation accordant. Installation are engined, build-up of district or dust, abuse, maladisament or controls, mains supply problems, thunderstorm admity, infestation by insects or vernint, lampening or repair by unauthoristic affects of the controller or supply and any installation and with infestation by insects abnormally consiste controllers or any fortunation and installations and affect of the abnormal sources. c
- This warranty does not cover the following items unless the fault or defect existed at the time of purchase:

 (b) Calmente Parts
 (c) Calmente Parts
 (d) Calmente Parts
 (d) Calmente Parts
 (d) Moravaeve Over coxy plates
 (p) Moravaeve Over coxy plates
 (p) Moravaeve Sydir essuling
 (e) User replacable Batteries
 (ii) Kneader mounting shaft unit from wear and tear in normal use <u>@</u>@ 4

Shaver Heads or Cutters

- (d) Cabiner Parts
 (e) User replaceable Batteries
 (f) Thermal Paper, Toner/Ink Cartridges,
 (f) Thurns, Developer, Film (Ink/Ribbon),
 Film Cartridge, Printer Heads

warranty service is required you should:

€

LC.

- Telephone Penseonic's Custemer Care Center on 1350pt or visit our website and use the Service Centre Liceator for the namedenses of the nearest Authorised Service Centre Loselot or bring the product of a Penseonic Authorised Service Centre loselot or the product or Penseonic Penseonic Centre Institute or Penseonic (b) Convection/Combination Microwave Ovens(c) Whiteboard (except portable type) sizes greater than 66cm); Rear Projection TV's; Plasma/LCD televisions / displays (screen size greater than 103 cm)
- The warranties hereby conferred do not extend to, and exclude, any costs associated with the installation, de-installation or e-installation of a product, including costs related to the mounting, de-mounting of remounting of any society, larged that an any society, larged that an extension of the ancillary activities), delivery, handing, freelighing, transportation or insurance of the product or any part thereof or replacement of and or hot extend is, and exclude, any damage or loss occurring by reason of, during, associated with, or related to such installation, de-installation, re-installation or transit.

e.

Panasonic Authorised Service Centres are tocated in major metropolitan areas and most regional centres of Australia, notwork, or the control of your propodut, please feephrant on product. For advice an exact Authorised Service Carlor of your control of the Carlor Centre Centre on 172000 or wist four website and use the Service Centre.

Unless otherwise specified to the consumer the benefits conferend by this express warranty are additional to all other conditions, and are according to the property of the conditional to all other conditions contained by the Tade Parctiess Act 1974 and similar consumer protection provisions contained in agisticut of the States and femiones and all other obligations and liabilities on the part of the manufacturer or supplier and nothing contained herein shall restrict or modify such quarter, so the part of the manufacturer or supplier and nothing contained herein shall restrict or modify such quarter, and examples, obligations or liabilities.

THIS WARRANTY CARD AND THE PURCHASE DOCKET (OR SIMILAR PROOF OF PURCHASE) SHOULD BE RETAINED BY THE CUSTOMER AT ALL TIMES

If you require assistance regarding warranty conditions or any other enquiries, please visit the Panasonic Australia website

If phoning in, please ensure you have your operating instructions available. www.panasonic.com.au orby phone on 132 600

Panasonic Australia Pty. Limited ACN 001 592 187 ABN 83 001 592 187

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www.panasonic.com.au

PRO-031-F01 Issue: 3.0

Other



Panasonic Corporation Web Site: http://panasonic.net

Pursuant to at the directive 2004/108/EC, article 9(2)

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