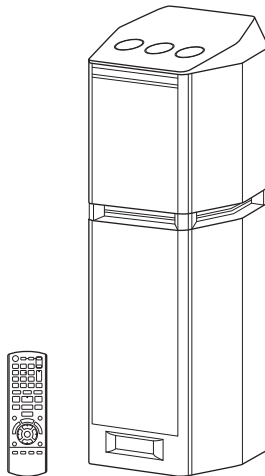


Panasonic[®]

Operating Instructions

Wireless Speaker System

Model No. **SC-UA90**

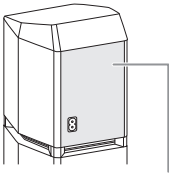


Thank you for purchasing this product.

For optimum performance and safety, please read these instructions carefully.

Please keep this manual for future reference.

Your system and the illustrations can look differently.



CLASS 1
LASER PRODUCT

For Australia and New Zealand



**Disposal of Old Equipment and Batteries
Only for European Union and countries
with recycle systems**

These symbols are only valid in the
European Union and countries with recycle
systems.



If you wish to discard this product, please
contact your local authorities or dealer and
ask for the correct method of disposal.

For India

The specifications are exempted for any licensing
requirement by Ministry of Communications and
Information Technology,
G.S.R. 45 (E), dated 28th January, 2005.

For Thailand

This telecommunication equipment conforms to
NTC/NBTC technical requirement.

The symbols on this product (including the accessories)
represent the following:

~ AC



Class II equipment (The construction of the
product is double-insulated.)

| ON



Standby

Recording and playback of content on this (or any other)
device may require permission from the copyright
owner. Panasonic has no authority to and does not grant
you that permission and explicitly disclaims any right,
ability or intention to obtain such permission on your
behalf. It is your responsibility to ensure that your use of
this or any other device complies with applicable
copyright law in your country.

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Safety precautions

WARNING!

Unit

- To reduce the risk of fire, electric shock or product damage,
 - Do not expose this unit to rain, moisture, dripping or splashing.
 - Do not place objects filled with liquids, such as vases, on this unit.
 - Use the recommended accessories.
 - Do not remove covers.
 - Do not repair this unit by yourself. Refer servicing to qualified service personnel.
 - Do not let metal objects fall inside this unit.

CAUTION!

Unit

- To reduce the risk of fire, electric shock or product damage,
 - Do not install or place this unit in a bookcase, built-in cabinet or in another confined space. Ensure this unit is well ventilated.
 - Do not obstruct this unit's ventilation openings with newspapers, tablecloths, curtains, and similar items.
 - Do not place sources of naked flames, such as lighted candles, on this unit.
- This unit is intended for use in moderate and tropical climates.
- This unit may receive radio interference caused by mobile telephones during use. If such interference occurs, please increase separation between this unit and the mobile telephone.
- This unit utilizes a laser. Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.
- Set the unit up on an even surface away from direct sunlight, high temperatures, high humidity, and excessive vibration.

AC mains lead

- The mains plug is the disconnecting device. Install this unit so that the mains plug can be unplugged from the socket outlet immediately.

Battery

- Danger of explosion if battery is incorrectly replaced. Replace only with the type recommended by the manufacturer.
- When disposing of the batteries, please contact your local authorities or dealer and ask for the correct method of disposal.
- Do not heat or expose to flame.
- Do not leave the battery(ies) in a car exposed to direct sunlight for a long period of time with doors and windows closed.
- Do not break open or short-circuit the battery.
- Do not charge the alkaline or manganese battery.
- Do not use the battery if the cover has peeled off.
- Remove the battery if you do not use the remote control for a long period of time. Keep in a cool, dark area.

Note on AC mains lead

(For the AC mains plug of three pins)

Before use

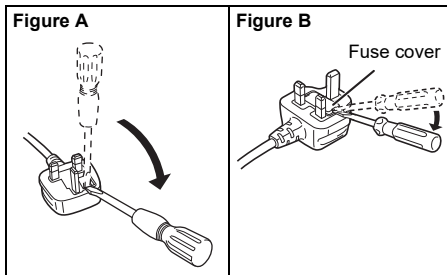
Remove the connector cover.

How to replace the fuse

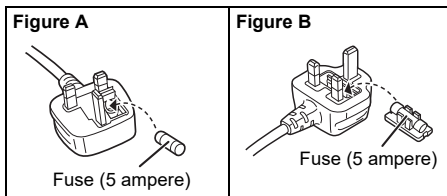
The location of the fuse differ according to the type of AC mains plug (figures A and B). Confirm the AC mains plug fitted and follow the instructions below.

Illustrations may differ from actual AC mains plug.

1. Open the fuse cover with a screwdriver.



2. Replace the fuse and close or attach the fuse cover.



Supplied accessories

Check and identify the supplied accessories.

☐ **For India**

1 AC mains lead

For others

3 AC mains leads

☐ **1 FM indoor antenna**



☐ **1 Remote control**
(N2QAYB001198)

☐ **1 Remote control battery**

Note:

Use the AC mains lead that is suitable for your household mains socket.

- When you play at high levels for a long period, it can cause damage to the speakers and decrease the life of the speakers.
- Decrease the volume in these conditions to prevent damage:
 - When the sound is distorted.
 - When you adjust the sound quality.

CAUTION!

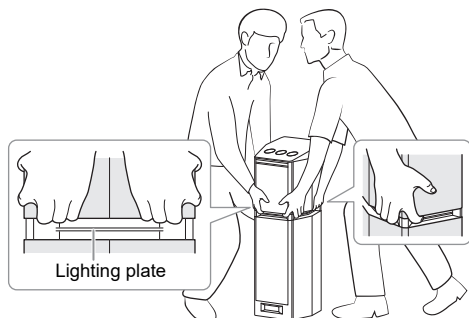
- **Improper handling or transportation manner may cause the unit to fall, etc., resulting in damage and/or personal injury.**
- **Do not transport the unit by holding the lighting plate as this may damage the lighting plate.**
- **Do not put any object on the top panel of the unit.**
- **Do not allow children to climb on the unit.**
- **Be careful when babies or children are near.**



Transporting the unit

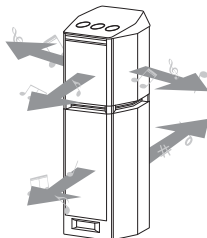
Preparation

Disconnect all connected devices and cables from the unit.



Note:

- More than one person is required to move, tilt or carry the unit.
- Keep the unit at least 10 mm away from other objects for proper ventilation.
- Put the unit on a flat safe surface.
- The speakers do not have magnetic shielding. Do not put them near PCs or other equipment easily influenced by magnetism.
- The audio output is multidirectional. Do not obstruct the speakers with any object that may decrease the sound quality.
- The subwoofer is located at the front and rear of the unit. Keep the rear of the unit at least 10 cm away from the wall for better sound quality.

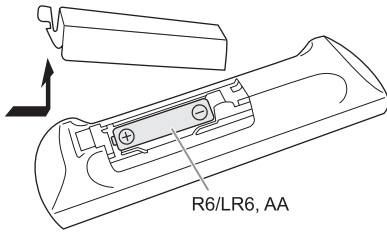


Maintenance

Disconnect the AC mains lead before maintenance.
Clean this system with a soft, dry cloth.

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

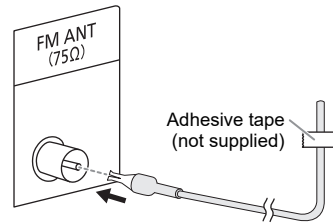
Preparing the remote control



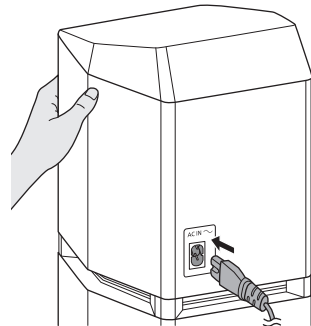
Use alkaline or manganese battery.

Install the battery so that the poles (+ and -) align with those in the remote control.

- 1 Connect the FM indoor antenna.**
Put the antenna where reception is best.



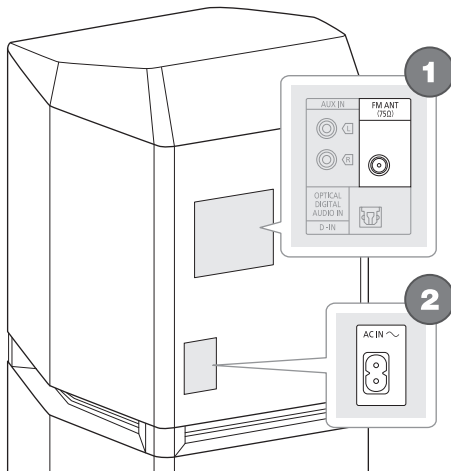
- 2 Connect the AC mains lead.**
Do not use any other AC mains leads except the supplied one.
Hold the unit when connecting or disconnecting the AC mains lead to prevent the unit from falling.



To household mains socket

Making the connections

Connect the AC mains lead only after all the other connections have been made.



Conserving power

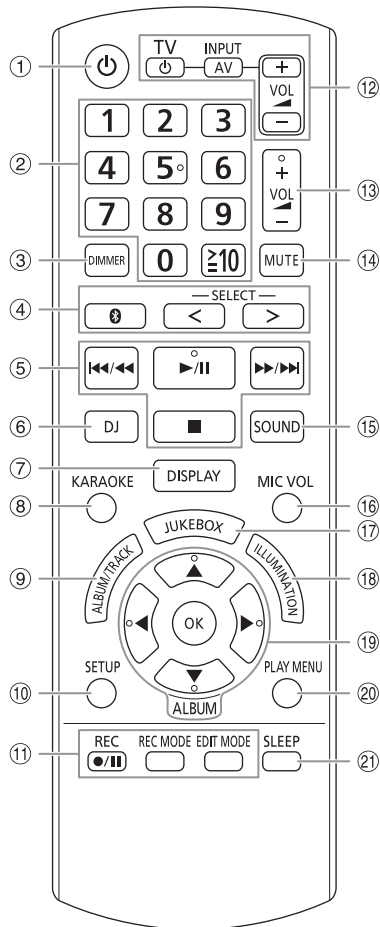
The system consumes a small amount of power even when it is in standby mode. Disconnect the power supply if you do not use the system. Some settings will be lost after you disconnect the system. You have to set them again.

Note:

Keep the antennas away from the AC mains lead to avoid picking up noise.

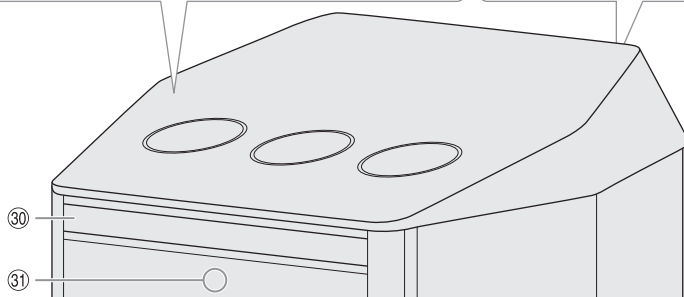
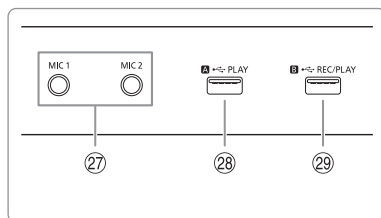
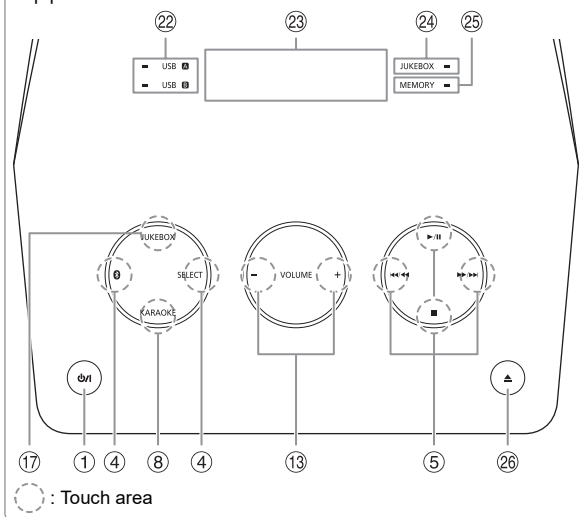
Overview of controls

Do the procedures with the remote control. You can also use the touch keys on the unit if they are the same.



- ① Standby/on switch** [⏻], [🔌]
Press *1 or touch *2 to switch the unit from on to standby mode or vice versa. In standby mode, the unit is still consuming a small amount of power.
*1 For the button on the remote control
*2 For the touch key on the unit
- ② Numeric buttons**
To select a 2-digit number
Example: 16: [≥10] → [1] → [6]
- ③ Decrease the brightness of the display panel and the illumination**
The status indicators are also switched off.
To cancel, press the button again.
- ④ Select the audio source**
Press [SELECT <, >] (unit: [SELECT]) repeatedly to select the source:
USB A → USB B → CD → FM → D-IN
↑ ↓
MEMORY ← BLUETOOTH ← AUX
On the unit:
To start Bluetooth® pairing, touch and hold [].
- ⑤ Basic playback control**
- ⑥ Select DJ effect or DJ sampler**
- ⑦ View the content information**
- ⑧ Select the Karaoke effects**
- ⑨ Select MP3 album or track**
- ⑩ View the setup menu**
- ⑪ Recording operation control**
- ⑫ Operate a Panasonic TV** (compatible models only)
Point the remote control to a Panasonic TV:
[📺/TV]: Switch on or switch off the TV
[AV/INPUT]: Change the video input mode of the TV
[VOL +/-]: Adjust the volume level of the TV
- ⑬ Adjust the volume level**
- ⑭ Mute the sound**
To cancel, press the button again.
“MUTE” is also cancelled when you adjust the volume or when you switch off the system.
- ⑮ Select the sound effects**
- ⑯ Adjust the microphone volume level**
- ⑰ Select DJ jukebox or Karaoke jukebox**
- ⑱ Switch on or switch off the illumination**
- ⑲ Select or confirm the option**
- ⑳ View the play menu**
- ㉑ Set the sleep timer**

Top panel



- 22 USB status indicator
- 23 Display panel
- 24 DJ jukebox or Karaoke jukebox status indicator
- 25 Internal memory status indicator
- 26 Open or close the disc tray
- 27 Microphone jack
- 28 **USB A**
USB port (↔) Play MP3 tracks.
- 29 **USB B**
USB port (↔) Play MP3 tracks.
Record sound or music tracks.
- 30 Disc tray
- 31 **Remote control sensor**
Distance: Within approximately 7 m
Angle: Approximately 20° up and down, 30° left and right

Note:

You can use the touch keys just by touching the marks. The system beeps when you touch any touch key. Refer to "Touch sound" (⇒ 18) on how to switch off the touch sound.

- To ensure these touch keys are operated correctly, make sure to touch within the touching area of the mark (refer to the illustration above for the touch area).
- To avoid operating these touch keys unintentionally, do not put any object on them.

Preparing media

Disc

- 1 Touch [▲] on the unit to open the disc tray.
Put in a disc with the label facing up.
Touch again to close the disc tray.
- 2 Press [SELECT <, >] repeatedly to select "CD".

USB

Preparation

Before you connect a USB device to the system, make sure you do a backup of the data.

- 1 Decrease the volume and connect the USB device to the USB port.
- 2 Press [SELECT <, >] repeatedly to select "USB A" or "USB B".
USB status indicator lights up in red when selected.

Note:

- Do not use a USB extension cable. The system cannot recognise USB device connected through a cable.
- Some devices cannot be charged as the maximum USB charging current is 0.5 A only.

Bluetooth®

You can connect and play an audio device wirelessly through Bluetooth®.

Preparation

- Switch on the unit.
- Switch on the Bluetooth® feature of the device and put the device near the system.
- Read the operating instructions of the device for details.

Pairing a device

Preparation

If this system is connected to a Bluetooth® device, disconnect it (⇒ 8).

- 1 Press [⊗].
If "PAIRING" is shown, continue with step 3.
- 2 Press [PLAY MENU] to select "PAIRING" and then press [OK].
- 3 Select "SC-UA90" from the Bluetooth® menu of the device.
If prompted for a passkey, input "0000" or "1234".
The device connects with this system automatically after pairing is complete.
The MAC address (example: 6C:5A:B5:B3:1D:0F) may be shown before "SC-UA90" is shown.
The name of the connected device is shown for a few seconds.

Using the unit

- 1 Touch and hold [⊗] until "PAIRING" is shown.
- 2 Select "SC-UA90" from the Bluetooth® menu of the device.

Note:

- You can pair up to 8 devices with this system. If a 9th device is paired, the device that has not been used for the longest time will be replaced.
- Depending on the searching functionality of the Bluetooth® device and the surrounding environment, if the product name is not shown on the Bluetooth® menu of the device, switch off and then switch on the Bluetooth® feature of the device repeatedly during the pairing process.

Connecting a device

Preparation

If this system is connected to a Bluetooth® device, disconnect it (⇒ 8).

- 1 Press [⊗].
"BLUETOOTH READY" is shown.
- 2 Select "SC-UA90" from the Bluetooth® menu of the device.
The name of the connected device is shown for a few seconds.
- 3 Start playback on the device.

Note:

- A device must be paired to connect.
- This system can only connect to one device at a time.
- When "BLUETOOTH" is selected as the source, this system will automatically try to connect to the last connected device. ("LINKING" is shown during this process.)

Disconnecting a device

While a Bluetooth® device is connected

- 1 Press [PLAY MENU] repeatedly to select "DISCONNECT?".
- 2 Press [◀, ▶] to select "OK? YES" and then press [OK].
"BLUETOOTH READY" is shown.
To cancel, select "OK? NO".

Using the unit

Touch and hold [⊗] until "PAIRING" is shown.

Note:

- A device is disconnected when you:
 - Select a different source.
 - Move the device out of the maximum range.
 - Disable the Bluetooth® transmission of the device.
 - Switch off the system or the device.

Media playback

The following marks indicate the availability of the feature.

- CD**: CD-R/RW in CD-DA format or with MP3 files.
- USB**: USB device with MP3 files.
- BLUETOOTH**: Bluetooth® device.
- MEMORY**: Internal memory (refer to “Recording” on page 11 for adding tracks to the internal memory).

Basic playback

CD USB BLUETOOTH MEMORY

Play	Press [▶/II] .
Stop	Press [■] . USB MEMORY The position is memorised. “RESUME” is shown. Press again to stop fully.
Pause	Press [▶/II] . Press again to continue playback.
Skip	Press [◀◀/▶▶] or [▶▶/▶▶] to skip track. CD USB MEMORY Press [▲, ▼] to skip MP3 album.
Search	Press and hold [◀◀/▶▶] or [▶▶/▶▶] .

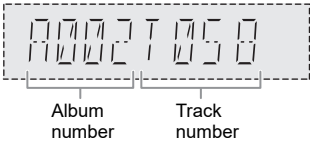
Note:
Depending on the Bluetooth® device, some operations may not work.

Viewing available information

CD USB BLUETOOTH MEMORY

You can view the available information, such as MP3 album and track number, on the display panel.

Press **[DISPLAY]** repeatedly.
Example: MP3 album and track number display.



- Note:**
- Maximum characters that can be shown: Approximately 32
 - This system supports ver. 1.0, 1.1 and 2.3 ID3 tags.
 - Text data that the system does not support can show differently.

Play menu

CD USB MEMORY

- Press **[PLAY MENU]**.
- Press **[◀, ▶]** to select the setting and then press **[OK]**.

OFF PLAYMODE	Cancel the setting.
1-TRACK 1	Play one selected track. Press the numeric buttons to select the track.
1-ALBUM 1	Play one selected MP3 album. Press [▲, ▼] to select the MP3 album.
RANDOM RND	Play all tracks randomly.
1-ALBUM RANDOM 1 RND	Play all tracks in one selected MP3 album randomly. Press [▲, ▼] to select the MP3 album.
ALL REPEAT 	Repeat all tracks.
1-TRACK REPEAT 1	Repeat 1-TRACK.
1-ALBUM REPEAT 1	Repeat 1-ALBUM.
RANDOM REPEAT RND	Repeat random playback.
1-ALBUM RANDOM REPEAT 1 RND	Repeat 1-ALBUM RANDOM.

- Note:**
- During random playback, you cannot skip to tracks which have been played.
 - The setting is cancelled when you open the disc tray or disconnect the USB device.

Link mode

BLUETOOTH

You can change the link mode to suit the connection type.

Preparation

If this system is connected to a Bluetooth® device, disconnect it (⇒ 8).

- 1 Press [PLAY MENU] repeatedly to select "LINK MODE".
- 2 Press [◀, ▶] to select the mode and then press [OK].

MODE 1	Emphasis on connectivity.
MODE 2 (default)	Emphasis on sound quality.

Note:

- When enjoying video contents with this function, the video and audio output may not be synchronised. In this case, select "MODE 1".
- Select "MODE 1" if the sound is interrupted.

Note on disc

- This system can play CD-R/RW with CD-DA or MP3 format content.
- Before playback, finalise the disc on the device it was recorded on.
- Some CD-R/RW cannot be played because of the condition of the recording.

Note on USB device

- This system does not guarantee connection with all USB devices.
- This system supports USB 2.0 full speed.
- This system can support USB devices of up to 32 GB.
- Only FAT 12/16/32 file system is supported.

Note on MP3 file

- Files are defined as tracks and folders are defined as albums.
- Tracks must have the extension ".mp3" or ".MP3".
- Tracks will not necessarily be played in the order you recorded them.
- Some files can fail to work because of the sector size.

MP3 file on disc

- This system can access up to:
 - 255 albums (including root folder)
 - 999 tracks
 - 20 sessions
- Disc must conform to ISO9660 level 1 or 2 (except for extended formats).

MP3 file on USB device

- This system can access up to:
 - 800 albums (including root folder)
 - 8000 tracks
 - 999 tracks in one album

Radio

Preparation

Press [SELECT <, >] repeatedly to select "FM".

Manual tuning

- 1 Press [PLAY MENU] repeatedly to select "TUNE MODE".
Or touch [■] on the unit to select "MANUAL". Continue with step 3.
- 2 Press [◀, ▶] to select "MANUAL" and then press [OK].
- 3 Press [◀◀/◀◀] or [▶▶/▶▶] to tune in to the station.
To tune automatically, press and hold the button until the frequency starts changing quickly.
"STEREO" is shown when a stereo broadcast is being received.

Memory presetting

You can preset up to 30 FM stations.

Automatic presetting

- 1 Press [PLAY MENU] to select "A.PRESET".
- 2 Press [◀, ▶] to select "LOWEST" or "CURRENT" and then press [OK].

LOWEST	Tuning begins from the lowest frequency.
CURRENT	Tuning begins from the current frequency.

The tuner presets all the stations it can receive into the channels in ascending order.
To cancel, press [■].

Manual presetting

- 1 Press [PLAY MENU] repeatedly to select "TUNE MODE".
Or touch [■] on the unit to select "MANUAL". Continue with step 3.
- 2 Press [◀, ▶] to select "MANUAL" and then press [OK].
- 3 Press [◀◀/◀◀] or [▶▶/▶▶] to tune in to the station.
- 4 Press [OK].
- 5 Press the numeric buttons to select a preset number.
Do steps 3 through 5 again to preset more stations.
The new station replaces any station that occupies the same preset number.

Selecting a preset station

- 1 Press [PLAY MENU] repeatedly to select "TUNE MODE".
Or touch [■] on the unit to select "PRESET". Continue with step 3.
- 2 Press [◀, ▶] to select "PRESET" and then press [OK].
- 3 Press the numeric buttons, [◀◀/◀◀] or [▶▶/▶▶] to select the preset station.

Improving the sound quality

- 1 Press [PLAY MENU] repeatedly to select "FM MODE".
- 2 Press [◀, ▶] to select "MONO" and then press [OK].
To cancel, select "STEREO".
"MONO" is also cancelled when you change the frequency.
To memorise the setting
Continue with step 4 of "Manual presetting" (⇒ 10).

Checking the signal status

Press [DISPLAY].

FM - - - -	The FM signal is weak. The system is not tuned in to a station.
FM ST	The FM signal is in stereo.
FM MONO	"MONO" is selected as the "FM MODE". The FM signal is in monaural.

Recording

This system can record up to 800 folders (maximum 999 tracks in an album) or a total of 8000 tracks, depending on the available storage capacity of the internal memory or the USB device in **USB B**.

To check storage space

In the stop mode, press [DISPLAY] repeatedly.

Example: Remaining recording time of the internal memory.



- "UPDATE" is shown when the system is reading the USB device.
- "NO DEVICE" is shown if there is no USB device connected to **USB B**.

To select where recordings are kept

- 1 Press [SETUP] repeatedly to select "REC TO?".
- 2 Press [◀, ▶] to select "MEMORY" or "USB B" and then press [OK].

Note:

- All recordings are in ".mp3" format.
- You cannot do recording when you are using random playback mode or in the optical input source.
- The DJ function or Karaoke function is switched off when you start recording.
- Repeat playback mode is cancelled during recording.
- A new album is added each time you do a recording.
- The sequence of album may change after the recording.
- The recordings are kept in a folder named "REC_DATA" in the USB device or the internal memory.
- USB status indicator blinks in red during USB recording.
- Internal memory status indicator blinks in red during internal memory recording.

Basic recording

- 1 Select the source you want to record.

CD-DA

Prepare the disc playback mode.

Record all tracks	Select "OFF PLAYMODE" (⇒ 9).
Record a specified track	Select "1-TRACK" (⇒ 9).

Make sure the disc is stopped.

Radio

Tune in to the radio station.

AUX

Connect and play the equipment (⇒ 17).

2 Press [REC ●/II] to start recording.

The name of the folder that keeps the recording is shown.

Stop recording	Press [■]. "WRITING" is shown.
Pause recording	Press [REC ●/II] during recording. Press again to continue recording. Note: You can pause during recording from the radio or AUX (except in "SYNCHRO" mode). A track mark is added every time you pause (⇒ 12).

Note:

- Wait for a few seconds for the system to prepare the USB device before you start recording.
- When the next track of the disc is being recorded, it will be shown on the display.

High-speed recording

CD-DA disc recording speed:

CD, CD-R: Three times (3x) the normal speed.

CD-RW: Two times (2x) the normal speed.

1 Put in the disc you want to record.

2 Press [REC MODE] repeatedly to select "NORMAL" or "HI-SPEED" and then press [OK].

3 Press [REC ●/II] to start recording.

Note:

- If you cannot record at high-speed because of the condition of the disc, record at normal speed.
- The sound is muted during high-speed recording.

Adding track marks

When recording from the radio or AUX, you can divide tracks using various modes.

Before recording

Press [REC MODE] to select the mode.

MANUAL	Add a track mark manually. Press [OK] during recording to add a track mark. Note: Recording is automatically divided in 60-minute per track.
SYNCHRO (For AUX source)	Recording starts automatically when the other equipment starts to play. Recording pauses when it detects silence for 3 seconds.
TIME MARK	A track is automatically divided at 5-minute intervals.

Note:

- During recording, if you press [OK] or pause recording while using "TIME MARK" mode, the 5-minute counter is reset.
- You cannot add track marks manually in "SYNCHRO" mode.

Recording MP3 tracks

You can record MP3 tracks from:

- MP3 disc to **USB B** or the internal memory
- **USB A** to **USB B** or the internal memory
- **USB B** to the internal memory or vice versa

1 Prepare the source you want to record.

Record all tracks	Select "OFF PLAYMODE" (⇒ 9).
Record a specified album or track	Select "1-ALBUM" or "1-TRACK" (⇒ 9).

2 Press [REC ●/II] to start recording.

To check the recording progress, press [DISPLAY].

Stop recording	Press [■]. Recording stops at the last fully recorded track in the album. For example, if you stop recording during the fourth track, only the first three tracks are recorded. "NO FILE RECORDED" is shown if no track is recorded.
----------------	--

Note:

- Some tracks can use a longer time to record.
- Some tracks cannot be recorded because of the condition of the source.
- The recorded file name is the same as the original file (only a maximum of 32 characters can be shown on the display panel).

Deleting the recorded tracks

1 Press [SELECT <, >] repeatedly to select "MEMORY" or "USB B".

2 Press [▲, ▼] to select the album.

3 Press [◀◀/▶▶] or [▶▶/▶▶] to select the track.

4 Press [EDIT MODE] to select the mode.

TRACK DEL	Delete a single track.
ALBUM DEL	Delete one album (maximum 999 tracks).
FORMAT	Format the USB device.
ALL DEL	Delete all albums in the internal memory.

5 Press [OK].

The selected item to be deleted is shown.

6 Press [OK].

"SURE? NO" is shown.

7 Press [◀, ▶] to select "SURE? YES" and then press [OK].

"WRITING" is shown.

To cancel, select "SURE? NO".

Sound effects

- 1 Press [SOUND] to select the sound effect.
- 2 Press [◀, ▶] to select the setting and then press [OK].

PRESET EQ	"ROCK", "POP", "AFRO BEAT", "ARABIC", "PERSIAN", "INDIA BASS", "DANGDUT", "MALAY POP", "ELECTRONICA", "REGGAETON", "SALSA", "SAMBA", "FOOTBALL", "KARAOKE" or "FLAT"
BASS/MID/TREBLE	-4 to +4 Note: These settings can change when you select a PRESET EQ setting.
SURROUND	"ON SURROUND" or "OFF SURROUND"
D.BASS LEVEL	"OFF", "LEVEL 1" to "LEVEL 6"
D.BASS BEAT	"ON D.BASS BEAT" or "OFF D.BASS BEAT" Note: <ul style="list-style-type: none">• This function emphasises the attack level of the drumbeat and produces a punchy sound. Depending on the track, the effect may be small.• This function does not work when "D.BASS LEVEL" is set to "OFF".

Illumination

You can switch on or switch off the illumination on the system.

Press [ILLUMINATION] to select "ON" and then press [OK].

To cancel, select "OFF".

DJ functions

You can use the DJ functions to add sound effects or sample sound between songs.

Using the "Panasonic MAX Juke" app

You can download and install the free app "Panasonic MAX Juke" on Google Play™ or App Store® for additional features, such as to request song playback from multiple devices simultaneously. You can also call up the tracks you want to play through the app. For details on the app, refer to the site below.

<http://av.jpn.support.panasonic.com/support/global/cs/audio/app/>

(This site is in English only.)

Note:

The DJ function is switched off when you switch off the system, change to another source or start recording.

DJ jukebox

USB MEMORY

You can use the DJ jukebox function to add cross-fade effect or sample sound mix between songs.

- 1 Press [JUKEBOX] to select "DJ JUKEBOX SELECT NUMBER" or "ON DJ JUKEBOX".
To cancel, select "OFF JUKEBOX".
- 2 Press [1] to [6] to select the effect and then press [OK].

[1]	<i>Cross-fade:</i> The current track volume gradually becomes soft, and the next track volume gradually becomes loud.
-----	---

[2] to [6]	<i>Sample sound mix:</i> Sample sound is added to the intervals of all tracks.
------------	--

To cancel, press the button again.

Using the unit

- 1 Touch [JUKEBOX] to select "DJ JUKEBOX SELECT NUMBER" or "ON DJ JUKEBOX".
To cancel, select "OFF JUKEBOX".
- 2 Touch [◀◀/◀◀] or [▶▶/▶▶] to select the effect.
To cancel, select "OFF EFFECT".

Note:

- The system switches to repeat mode automatically when you switch on DJ jukebox.
- The cross-fade function may not work between songs that have different sampling frequencies.

Changing the repeat setting

- 1 Press [PLAY MENU].
- 2 Press [◀, ▶] to select the setting and then press [OK].

RANDOM REPEAT RND ◯	Repeat random playback.
ALL TITLE REPEAT ◯	Repeat all tracks.
RANDOM MIX REPEAT RND ◯	Repeat random playback. Sample sound is added to the intervals of all tracks.

Note:

You cannot select the DJ jukebox effect when you are using "RANDOM MIX REPEAT" mode.

DJ effect

(Except for D-IN and AUX source)

You can use the DJ effect function to add sound effects.

- 1 Press [DJ] to select "DJ EFFECT SELECT NUMBER" or "ON DJ EFFECT".
To cancel, select "OFF EFFECT".
- 2 Press [1] to [6] to select the effect.

[1]	PHASER Add space and dimension to the sound.
[2]	FILTER Enhance or filter specific ranges of the sound.
[3]	SOUND CHOPPER Cut off the sound periodically.
[4]	ELECTRO ECHO Add digital echo to the sound.
[5]	PITCH SHIFTER Adjust the keys of the sound.
[6]	HARMONIZER Add notes to the sound to create harmony.

To cancel, press the button again.

- 3 Press [◀, ▶] to select the setting and then press [OK].

DJ sampler

(Except for D-IN and AUX source)

You can apply a scratch sound or sample sound to the track you are playing.

- 1 Press [DJ] to select "SAMPLER SELECT NUMBER" or "ON SAMPLER".
To cancel, select "OFF EFFECT".
- 2 Press [1] to [6] to select the desired sound.
To cancel, press the button again.
- 3 Press [◀, ▶].

Using the "Panasonic MAX Juke" app

You can change the sample sound on the app. (To return all sample sounds to the factory preset, when in the stop mode, touch and hold [JUKEBOX] on the unit until "SAMPLER RESTORED" is shown.)

Using a microphone

Preparation

Decrease the volume of the system to its minimum before you connect or disconnect a microphone.

- 1 Connect a microphone (not supplied) to the microphone jack.
Plug type: Ø 6.3 mm monaural
- 2 Press [MIC VOL] and then press [◀, ▶] to adjust the volume of the microphone.
- 3 If you want to sing with the background music, play the music source and adjust the volume of the system.

Note:

- If a strange noise (howling) is emitted, move the microphone away from the speakers, or decrease the volume of the microphone.
- When you do not use the microphone, disconnect it from the microphone jack, and decrease the volume of the microphone to its minimum.
- This system cannot record from microphone.

Karaoke

Preparation

Select the music source.

Note:

The Karaoke function is switched off when you switch off the system or start recording.

Karaoke effect

You can use the Karaoke effect function to add sound effects.

1 Press [KARAOKE] repeatedly to select the effect.

VOCAL CANCEL	Reduce the vocal level or change the audio mode (depending on the source).
ECHO	Add an echo effect to the sound.
KEY CONTROL	Change the key of a song. Note: The setting is cancelled when you change to another source.
TEMPO	CD USB MEMORY Change the speed of a song.
BGM	Change the background music level.
MIC EQ	Select a MIC EQ mode.
OFF EFFECT	Cancel the effect. Press [OK] (unit: ▶/) to confirm.

To check the current setting, press [OK].

2 Press [◀**, **▶**] (unit: [**◀◀**/◀◀] or [**▶▶**/▶▶]) to select the setting and then press [OK] (unit: **▶/||**).**

VOCAL CANCEL	"OFF", 1 to 3, "L", "R", "L+R" When using stereo source not formatted for Karaoke It is recommended to use "2 VOCAL CANCEL" for most songs. When using Karaoke formatted source L: Only left channel sound (accompaniment only) R: Only right channel sound (vocals only) L+R: Left and right channel sounds are mixed
ECHO	"OFF", 1 to 4
KEY CONTROL	-6 to +6
TEMPO	"OFF", -2 to +2
BGM	"OFF", 1 to 3
MIC EQ	"SINGING" or "SPEECH"

Note:

- To use Karaoke effect in D-IN source, change the digital audio output setting on the external equipment to PCM.
- To use Karaoke effect in AUX source, set "AUX MODE" to "MODE 1" (⇒ 17).

Karaoke jukebox

You can use the Karaoke effect while using Karaoke jukebox.

Press [JUKEBOX] to select "ON KARAOKE JUKEBOX" and then press [OK].

To cancel, select "OFF JUKEBOX".

Note:

- The system switches to repeat mode automatically when you switch on Karaoke jukebox.
- Karaoke jukebox is switched off when you change to another source.

Changing the repeat setting

1 Press [PLAY MENU].

2 Press [◀**, **▶**] to select the setting and then press [OK].**

RANDOM REPEAT RND ↺	Repeat random playback.
ALL TITLE REPEAT ↺	Repeat all tracks.
RANDOM MIX REPEAT RND ↺	Repeat random playback. Sample sound is added to the intervals of all tracks.

Clock and timers

Setting the clock

This is a 24-hour clock.

- 1 Press [SETUP] to select “CLOCK”.
- 2 Press [◀, ▶] to set the time and then press [OK].

To check the time

Press [SETUP] to select “CLOCK” and then press [OK].

In standby mode, press [DISPLAY].

Note:

Reset the clock regularly to maintain accuracy.

Sleep timer

The sleep timer switches off the system after the set time.

Press [SLEEP] to select the setting (in minutes).

To cancel, select “OFF”.

SLEEP 30 → SLEEP 60 → SLEEP 90 → SLEEP 120
↑ OFF ↓

To check the remaining time

Press [SLEEP].

Note:

- The remaining time is shown for a few seconds every minute. “SLEEP 1” is always shown when only 1 minute remains.
- The sleep timer always comes first. Be sure not to set an overlap of timers.

Play timer and record timer

(Except for Bluetooth®, D-IN and AUX source)

You can set the timer to come on at a certain time to:

- Wake you up (play timer).
 - Record from the radio (record timer).
- Play timer and record timer cannot be used together.

Preparation

Set the clock.

- 1 Press [SETUP] repeatedly to select “TIMER ADJ”.
- 2 Press [◀, ▶] to select “⌚PLAY” or “⌚REC” and then press [OK].
- 3 Press [◀, ▶] to set the start time and then press [OK].
- 4 Do step 3 again to set the end time.
- 5 For play timer, press [◀, ▶] to select the source you want to play and then press [OK].
- 6 For record timer, press [◀, ▶] to select “MEMORY” or “USB B” to keep the recording and then press [OK].

To start the timer

- 1 Prepare the source.

Play timer	Prepare the source you want to listen to (disc, USB, internal memory or radio) and set the volume.
Record timer	Connect the USB device to USB B (for USB recording) and tune in to the radio station.

- 2 Press [SETUP] repeatedly to select “TIMER SET”.
- 3 Press [◀, ▶] to select the setting and then press [OK].

PLAY ON	Start the play timer.
PLAY OFF	Cancel the play timer.
REC ON	Start the record timer.
REC OFF	Cancel the record timer.

“⌚” is shown.

The system must be switched off for the timer to operate.

To check the setting

- 1 Press [SETUP] repeatedly to select “TIMER ADJ”.
- 2 Press [◀, ▶] to select “⌚PLAY” or “⌚REC” and then press [OK].

In standby mode, press [DISPLAY] two times.

Note:

- The play timer starts at a low volume and increases gradually to the preset level.
- The record timer starts 30 seconds before the set time with the volume muted.
- The timer comes on at the set time every day if the timer is on.
- If you switch off the system and then switch on again while a timer is in operation, the timer will not stop at the end time.

External equipment

Preparation

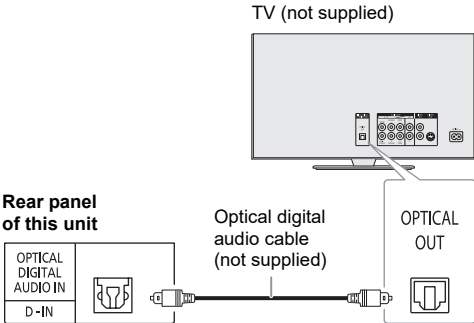
- Disconnect the AC mains lead.
- Switch off all equipment and read the appropriate operating instructions.

Note:

- Do not bend cables at sharp angles.
- Components and cables are sold separately.
- Sound distortion can occur when you use an adaptor.
- If you want to connect equipment other than those described, refer to the audio dealer.

Using the optical input

You can connect a TV, VCR, DVD player etc., and listen to the audio through this system.



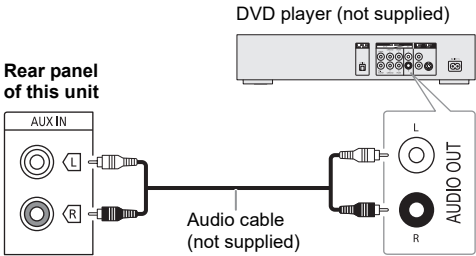
- 1 Connect the external equipment.
- 2 Press [SELECT <, >] repeatedly to select "D-IN".
- 3 Play the external equipment.

Note:

- This system supports linear PCM and Dolby Digital signals.
- Multi-channel source will be converged to 2 channels.
- Sampling frequency: 32 kHz (PCM), 44.1 kHz (PCM) and 48 kHz
- The sound is muted if the signal format or frequency is not supported.
- If there are sounds coming from the TV's speakers, decrease the volume of the TV to its minimum.

Using the auxiliary input

You can connect a VCR, DVD player etc., and listen to the audio through this system.



- 1 Connect the external equipment.
- 2 Press [SELECT <, >] repeatedly to select "AUX".
- 3 Play the external equipment.

AUX mode

- 1 Press [PLAY MENU] to select "AUX MODE".
- 2 Press [◀, ▶] to select the mode and then press [OK].

MODE 1 (default)	Select this mode to use the Karaoke effect function.
MODE 2	Select this mode when watching TV, movies or using an external player with Karaoke features.

Others

Auto off

This system automatically switches off when you do not use it for approximately 20 minutes.

- 1 Press **[SETUP]** repeatedly to select **"AUTO OFF"**.
- 2 Press **[◀, ▶]** to select **"ON"** and then press **[OK]**.
To cancel, select **"OFF"**.

Note:

- This function does not work when you are in radio source or when a Bluetooth® device is connected.
- This function may not work when a microphone is connected.

Bluetooth® standby

This function automatically switches on the system when you establish a Bluetooth® connection from a paired device.

- 1 Press **[SETUP]** repeatedly to select **"BLUETOOTH STANDBY"**.
- 2 Press **[◀, ▶]** to select **"ON"** and then press **[OK]**.
To cancel, select **"OFF"**.

Note:

Some devices may take longer to respond. If you are connected to a Bluetooth® device before switching off the system, wait for a minimum of 5 seconds before connecting to this system from your Bluetooth® device again.

Touch sound

The system beeps when you touch any touch key on the unit.

- 1 Press **[SETUP]** repeatedly to select **"BUZZER"**.
- 2 Press **[◀, ▶]** to select **"ON"** and then press **[OK]**.
To cancel, select **"OFF"**.

Note:

This function works even when the system is muted.

Software update

Occasionally, Panasonic may release updated software for this unit that may add or improve the way a feature operates. These updates are available free of charge. For more details, refer to the following website.

<http://panasonic.jp/support/global/cs/>

(This site is in English only.)

Checking the software version

- 1 Press **[SETUP]** repeatedly to select **"SW VER."** and then press **[OK]**.
The software version is shown.
- 2 Press **[OK]** again to exit.

Troubleshooting

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

Common problems

The unit does not work.

- The safety device has been activated. Do the following:
 1. Touch **[⏻]** on the unit to switch the unit to standby mode.
If the unit does not switch to standby mode, disconnect the AC mains lead and then connect it again.
 2. Touch **[⏻]** again to switch on the unit. If the problem persists, consult your dealer.

The display panel lights up and changes continuously in standby mode.

- Touch and hold **[■]** on the unit to select **"DEMO OFF"**.

No operations can be done with the remote control.

- Examine that the battery is installed correctly.

Sound is distorted or no sound.

- Adjust the volume of the system.
- Switch off the system, determine and correct the cause, and then switch on again. It can be caused by straining of the speakers through excessive volume or power, and when using the system in a hot environment.

A humming sound can be heard during playback.

- An AC mains lead or fluorescent light is near the cables. Keep other appliances and cords away from the cables of this system.

The sound level reduces.

- The protection circuit has been activated due to the continuous use at high volume output. This is to protect the system and maintain the sound quality.

Disc

Display not shown correctly.

Playback does not start.

- You have not put in the disc correctly. Put it in correctly.
- Disc is dirty. Clean the disc.
- Replace the disc if it is scratched, warped, or non-standard.
- There is condensation. Let the system dry for 1 to 2 hours.

The total number of tracks shown is incorrect.

The disc cannot be read.

Distorted sound is heard.

- You put in a disc that the system cannot play. Change to a playable disc.
- You put in a disc that has not been finalised.

USB

The USB device or the contents in it cannot be read.

- The format of the USB device or the contents in it are not compatible with the system.
- USB devices with storage capacity of more than 32 GB cannot work in some conditions.

Slow operation of the USB device.

- Large content size or large memory USB device takes longer time to read.

Bluetooth®

Pairing cannot be done.

- Check the Bluetooth® device condition.
- The device is out of the 10 m communication range. Move the device nearer to the system.

The device cannot be connected.

- The pairing of the device was unsuccessful. Do pairing again.
- The pairing of the device has been replaced. Do pairing again.
- This system might be connected to a different device. Disconnect the other device and try connecting the device again.
- The system may have a problem. Switch off the system and then switch on again.
- If "MODE 2" is selected in "LINK MODE", select "MODE 1" (⇒ 10).

The device is connected but audio cannot be heard through the system.

- For some built-in Bluetooth® devices, you have to set the audio output to "SC-UA90" manually. Read the operating instructions of the device for details.

Sound from the device is interrupted.

- The device is out of the 10 m communication range. Move the device nearer to the system.
- Remove any obstacle between the system and the device.
- Other devices that use the 2.4 GHz frequency band (wireless router, microwaves, cordless phones, etc.) are interfering. Move the device nearer to the system and distance it from the other devices.
- Select "MODE 1" for stable communication (⇒ 10).

Radio

Sound is distorted.

- Use an optional FM outdoor antenna. The antenna should be installed by a competent technician.

A beat sound is heard.

- Switch off the TV or move it away from the system.
- Move mobile telephones away from the system if the interference is apparent.

D-IN, AUX

Playback image and sound are not synchronised.

- When in AUX source, set "AUX MODE" to "MODE 2".

Karaoke effect cannot be used.

- When in D-IN source, change the digital audio output setting on the external equipment to PCM.
- When in AUX source, set "AUX MODE" to "MODE 1".

Unit displays

"--:--"

- You connected the AC mains lead for the first time or there was a power failure recently. Set the clock.
- Track play time is more than 99 minutes.

"ADJUST CLOCK"

- The clock is not set. Adjust the clock.

"ADJUST TIMER"

- The play timer and/or record timer is not set. Adjust the play timer and/or record timer.

"ALB FULL"

- The number of albums has exceeded the supported limit.

"AUDIO UNSUPPORTED"

- The signal format or frequency is not supported.
- This system does not support bitstream signals. Change the digital audio output setting on the external equipment to PCM.
- This system supports sampling frequencies of 32 kHz (PCM), 44.1 kHz (PCM) and 48 kHz. Select only the supported sampling frequencies on the connected equipment.
- Try connecting the external equipment by using the auxiliary input.

"AUTO OFF"

- The system has not been used for 20 minutes and will switch off within a minute. To cancel, press any button or touch any touch key.

"CAN'T REC"

"DEVICE FULL"

- You cannot do recording because the remaining recording time of the USB device is less than the total time of the music source. Change to a USB device which has enough recording time and do the recording again.
- You cannot do recording because the USB device is write-protected. Remove the write protection of the USB device and try again.

"ERROR"

- An incorrect operation was done. Read the instructions and try again.

"ERROR" (during recording)

- You cannot select other playback source (example: radio, USB etc.) or press [◀◀/◀◀] or [▶▶/▶▶] during recording. Stop the recording function.

"F□□" / "F□□□" ("□" represents a number.)

- The protection circuit has been activated and the system may be switched off automatically.
- Disconnect the AC mains lead and wait for a few seconds before connecting it again. If the problem persists, disconnect the AC mains lead and consult your dealer.

"INSERT USB B"

- You cannot do recording because there is no USB device connected to **USB B**.

"MEMORY ERROR"

- The files in the internal memory can be corrupted. Switch off the system and then disconnect the AC mains lead. Wait for a minimum of 1 minute before switching on the system again. If the problem persists, press [EDIT MODE] to select "ALL DEL" to delete all albums in the internal memory and do recording again.

"NO DEVICE"

- You cannot check available storage space because there is no USB device connected to **USB B**.

"NO DISC"

- You have not put in a disc.

“NO PLAY” **“UNSUPPORT”**

- There is no album or track in the USB device.
- Examine the content. You can only play supported format.
- The files in the USB device can be corrupted. Format the USB device and try again.
- The system may have a problem. Switch off the system and then switch on again.

“NO TRACK”

- There is no album or track in the internal memory.

“NOT SUPPORTED”

- To use Karaoke effect in D-IN source, change the digital audio output setting on the external equipment to PCM.
- To use Karaoke effect in AUX source, set “AUX MODE” to “MODE 1”.

“PLAYERERROR”

- An unsupported MP3 file has been played. The system will skip that track and play the next one.

“REC ERROR”

- You disconnected the USB device during recording. Connect the USB device and do recording again.
- An error occurred during USB recording. Disconnect the USB device and then connect it again.

“REMOTE 1”

“REMOTE 2”

- The remote control and the unit are using different codes. Change the code of the remote control.
 - When “REMOTE 1” is shown, press and hold [OK] and [1] for a minimum of 4 seconds.
 - When “REMOTE 2” is shown, press and hold [OK] and [2] for a minimum of 4 seconds.

“TRK FULL”

- The number of files has exceeded the supported limit.

“USB A NO DEVICE”

“USB B NO DEVICE”

- The USB device is not connected. Examine the connection.

“USB OVER CURRENT ERROR”

- The USB device is drawing too much power. Disconnect the USB device, switch off the system and then switch on again.
- Check the connection, it may be caused by a faulty USB cable.

“VBR”

- The system cannot show the remaining play time for variable bit rate (VBR) tracks.

Remote control code

When other Panasonic equipment responds to the remote control of this system, change the remote control code for this system.

Preparation

Touch [SELECT] repeatedly on the unit to select “AUX”.

To set the code to “REMOTE 2”

- 1 Touch and hold [SELECT] on the unit and [2] on the remote control until “REMOTE 2” is shown.**
- 2 Press and hold [OK] and [2] for a minimum of 4 seconds.**

To set the code to “REMOTE 1”

- 1 Touch and hold [SELECT] on the unit and [1] on the remote control until “REMOTE 1” is shown.**
- 2 Press and hold [OK] and [1] for a minimum of 4 seconds.**

System memory reset

Reset the memory when the following situations occur:

- There is no response when buttons are pressed or when touch keys are touched.
- You want to clear and reset the memory contents.

- 1 Touch and hold [⏻] on the unit until “RESET?” is shown.**

- 2 While you touch and hold [⏻] on the unit, touch [SELECT].**

“RESET” is shown.

After “-----” is shown, the unit will switch off automatically.

All the settings are set back to the factory preset. It is necessary to set the memory items again.

Specifications

General

Power supply	AC 220 V to 240 V, 50/60 Hz
Power consumption	200 W
Power consumption in standby mode (approximate)	
With "BLUETOOTH STANDBY" set to "OFF"	0.5 W
With "BLUETOOTH STANDBY" set to "ON"	0.6 W

Dimensions (W x H x D)	300 mm x 944 mm x 295 mm
Mass	21 kg
Operating temperature range	0°C to +40°C
Operating humidity range	35% to 80% RH (no condensation)

Amplifier section

RMS output power stereo mode	
Front Ch (both ch driven)	
500 W per channel (2 Ω), 1 kHz, 30% THD	
Subwoofer Ch (x 2)	
500 W per channel (2 Ω), 100 Hz, 30% THD	
Total RMS stereo mode power	2000 W
PMPO output power	22000 W

Tuner, terminals section

Frequency modulation (FM)	
Preset memory	30 stations
Frequency range	87.50 MHz to 108.00 MHz (50 kHz step)
Antenna terminals	75 Ω (unbalanced)

Digital audio input	
Optical digital input	Optical terminal
Sampling frequency	32 kHz, 44.1 kHz, 48 kHz (±100 ppm)
Audio format	PCM, Dolby Digital

Analog audio input	
Audio input	Pin jack (1 system)

Microphone	
Terminal	Mono, 6.3 mm jack (2 system)

Disc section

Disc played (8 cm or 12 cm)	CD, CD-R/RW (CD-DA, MP3*)
* MPEG-1 Layer 3, MPEG-2 Layer 3	

Pick up	
Wavelength	790 nm (CD)

USB section

USB port	
USB standard	USB 2.0 full speed
Media file format support	MP3 (*.mp3)
USB device file system	FAT12, FAT16, FAT32

USB recording	
Bit rate	128 kbps
USB recording speed	1x, 3x max (CD only)
Recording file format	MP3 (*.mp3)

Internal memory section

Memory	
Memory size	4 GB
Media file format support	MP3 (*.mp3)

Memory recording	
Bit rate	128 kbps
Memory recording speed	1x, 3x max (CD only)
Recording file format	MP3 (*.mp3)

Bluetooth® section

Version	Bluetooth® Ver. 2.1 + EDR
Class	Class 2
Supported profiles	A2DP, AVRCP, SPP, OPP, FTP
Operating frequency	2.4 GHz band FH-SS
Frequency band	2402 MHz to 2480 MHz
Maximum power (EIRP)	4 dBm
Operation distance	10 m line of sight
Supported codec	SBC

Speaker section

Front speaker	
Speaker unit(s)	
Tweeter x 4	6 cm cone type
Woofer x 4	8 cm cone type

Subwoofer	
Speaker unit(s)	
Super Woofer x 2	20 cm cone type

- Note:
- Specifications are subject to change without notice.
 - Mass and dimensions are approximate.
 - Total harmonic distortion is measured by the digital spectrum analyser.

References

About Bluetooth®

Panasonic bears no responsibility for data and/or information that is compromised during a wireless transmission.

Frequency band

- This system uses the 2.4 GHz frequency band.

Certification

- This system conforms to the frequency restrictions and has received certification based on frequency laws. Thus, a wireless permit is not necessary.
- The actions below are punishable by law in some countries:
 - Taking apart or modifying the unit.
 - Removing specification indications.

Restrictions of use

- Wireless transmission and/or usage with all Bluetooth® equipped devices is not guaranteed.
- All devices must conform to standards set by the Bluetooth SIG, Inc.
- Depending on the specifications and settings of a device, it can fail to connect or some operations can be different.
- This system supports Bluetooth® security features. But depending on the operating environment and/or settings, this security is possibly not sufficient. Transmit data wirelessly to this system with caution.
- This system cannot transmit data to a Bluetooth® device.

Range of use

- Use this device at a maximum range of 10 m.
- The range can decrease depending on the environment, obstacles or interference.

Interference from other devices

- This system may not function properly and troubles such as noise and sound jumps may arise due to radio wave interference if this unit is located too close to other Bluetooth® devices or the devices that use the 2.4 GHz band.
- This system may not function properly if radio waves from a nearby broadcasting station, etc. is too strong.

Intended usage

- This system is for normal, general use only.
- Do not use this system near an equipment or in an environment that is sensitive to radio frequency interference (example: airports, hospitals, laboratories, etc.).

Licenses

The Bluetooth® word mark and logos are registered trademarks owned by the Bluetooth SIG, Inc. and any use of such marks by Panasonic Corporation is under license. Other trademarks and trade names are those of their respective owners.
Google Play is a trademark of Google LLC.
App Store is a service mark of Apple Inc., registered in the U.S. and other countries.
Dolby, Dolby Audio, and the double-D symbol are trademarks of Dolby Laboratories.

Panasonic Warranty

1. Subject to the conditions of this warranty Panasonic or its Authorised Service Centre will perform necessary service on the product, without charge for parts or labour, if in the opinion of Panasonic the product is found to have a manufacturing defect within one (1) year or (12 months) (the "warranty period") from the date of purchase appearing on your purchase receipt.
2. This warranty only applies to Panasonic products purchased in Australia and sold by Panasonic Australia, its Authorised Distributors, or Dealers, and only where the products are used and serviced within Australia or its territories. Warranty cover only applies to the services that are carried out by a Panasonic Authorised Service Centre and only if valid proof of purchase is presented when the warranty service is requested.
3. This warranty only applies if the product has been installed and/or used in accordance with the manufacturer's recommendations (as noted in the operating instructions) under normal use and reasonable care (in the opinion of Panasonic). The warranty does not cover damage, malfunction or failure resulting from use of incorrect voltages, incorrect installation, accident, misuse, neglect, build-up of dirt or dust, abuse, maladjustment of customer controls, mains supply problems, thunderstorm activity, infestation by insects or vermin, tampering or repair by unauthorised persons (including unauthorised alterations), exposure to abnormally corrosive conditions, or any foreign object or matter having entered the product.
4. This warranty does not cover the following items unless the fault or defect existed at the time of purchase:
 - (a) Consumable parts
 - (b) Cosmetic parts
 - (c) Worn or damaged parts
 - (d) Information stored on Hard Disk Drives, Optical Discs, USB Devices, SD Cards, Tapes
 - (e) DTV reception issues caused by TV Aerial / Cabling / Wall socket(s)
5. Some products may be supplied with Ethernet connection hardware. The warranty is limited on such products and will not cover:
 - (a) Internet and or DLNA connection / setup related problems
 - (b) Access fees and or charges incurred for internet connection
 - (c) Incompatible software or software not specifically stipulated in the product operations manual; and
 - (d) Any indirect or consequential costs associated with the incorrect use or misuse of the hardware, its connection to the internet or any other device.
6. To claim warranty service, when required, you should:
 - Contact Panasonic's Customer Care Centre on 132 600 for Service Centre information.
 - Confirm the opening and acceptance times with the Authorised Service Centre that you choose.
 - Then send or take the product to a Panasonic Authorised Service Centre together with your proof of purchase receipt.
 - Any freight and insurance costs associated with the transport of the product to and/or from your nearest Authorised Service Centre must be arranged and paid for by you.
7. The warranties hereby conferred do not extend to, and exclude, any costs associated with the installation, de-installation or re-installation of a product, including costs related to the mounting, de-mounting or remounting of any screen, (and any other ancillary activities), delivery, handling, freighting, transportation or insurance of the product or any part thereof or replacement of and do not extend to, and exclude, any damage or loss occurring by reason of, during, associated with, or related to such installation, de-installation, re-installation or transit.

Panasonic Authorised Service Centres are located in major metropolitan areas and most regional centres of Australia, however, coverage will vary dependant on product. For advice on exact Authorised Service Centre locations for your product, please telephone our Customer Care Centre on 132 600 or visit our website and use the Service Centre Locator.

In addition to your rights under this warranty, Panasonic products come with consumer guarantees that cannot be excluded under the Australian Consumer Law. If there is a major failure with the product, you can reject the product and elect to have a refund or to have the product replaced or if you wish you may elect to keep the goods and be compensated for the drop in value of the goods. You are also entitled to have the product repaired or replaced if the product fails to be of acceptable quality and the failure does not amount to a major failure.

If there is a major failure in regard to the product which cannot be remedied then you must notify us within a reasonable period by contacting the Panasonic Customer Care Centre. If the failure in the product is not a major failure then Panasonic may choose to repair or replace the product and will do so in a reasonable period of time from receiving notice from you.

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

Panasonic Australia Pty. Limited

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Panasonic Corporation
Web Site: <http://www.panasonic.com>

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