

Panasonic®

Owner's Manual

CD Stereo System

Model No. **SC-PMX90**



Thank you for purchasing this product.
Please read these instructions carefully before using this product, and save this manual for future use.

If you have any questions, visit:
www.panasonic.ca/english/support

PC

Table of contents

IMPORTANT SAFETY INSTRUCTIONS	2
Maintenance	4
Supplied accessories	4
Placement of speakers	4
Making the connections	5
Overview of controls	6
Preparing the remote control	6
About Bluetooth®	7
Bluetooth® operations	7
Media information	9
Inserting media	9
Media playback controls	10
FM radio	11
Clock and timers	12
Sound effects	12
Using the AUX IN input	13
Using the PC input	13
Others	14
Troubleshooting	14
Specifications	16
Limited Warranty	18

TQBM0360

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

Your system and the illustrations can look differently. This Owner's Manual is applicable to the following system.

System	SC-PMX90
Main unit	SA-PMX90
Speakers	SB-PMX70

IMPORTANT SAFETY INSTRUCTIONS

Read these operating instructions carefully before using the unit. Follow the safety instructions on the unit and the applicable safety instructions listed below. Keep these operating instructions handy for future reference.

- 1 Read these instructions.
- 2 Keep these instructions.
- 3 Heed all warnings.
- 4 Follow all instructions.
- 5 Do not use this apparatus near water.
- 6 Clean only with dry cloth.
- 7 Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- 8 Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 9 Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding-type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 10 Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 11 Only use attachments/accessories specified by the manufacturer.
- 12 Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
- 13 Unplug this apparatus during lightning storms or when unused for long periods of time.
- 14 Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.



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.

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

Battery

- 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.
- 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.
- Remove the battery if you do not use the remote control for a long period of time. Keep in a cool, dark area.
- 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.

	CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN	
CAUTION : TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE SCREWS. NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.		



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

This transmitter must not be co-located or operated in conjunction with any other antenna or transmitter.

This equipment complies with ISED radiation exposure limits set forth for an uncontrolled environment and meets RSS-102 of the ISED radio frequency (RF) Exposure rules as this equipment has very low levels of RF energy.

But it is desirable that it should be installed and operated keeping the radiator at least 20 cm (7 7/8") or more away from person's body.

This device contains licence-exempt transmitter(s)/ receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

1. This device may not cause interference.
2. This device must accept any interference, including interference that may cause undesired operation of the device.

Contains IC: 216A-B21R1401

CAN ICES-3(B)/NMB-3(B)

The model number and serial number of this product can be found on either the back or the bottom of the unit.

Please note them in the space provided below and keep for future reference.

MODEL SC-PMX90
SERIAL NUMBER _____
NUMBER _____

User memo:

DATE OF PURCHASE _____
DEALER NAME _____
DEALER ADDRESS _____
TELEPHONE NUMBER _____

Maintenance

- To clean this system, wipe with a soft, dry cloth.
- Never use alcohol, paint thinner or benzine to clean this system.
- Before using chemically treated cloth, read the instructions that came with the cloth carefully.

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

- ~ AC
- == DC
- Class II equipment (The construction of the product is double-insulated.)
- | On
- ⏻ Standby

Supplied accessories

Check and identify the supplied accessories.

- 1 x AC power supply cord (K2CB2YY00065)
- 1 x Remote control (N2QAYB001101)
- 1 x FM indoor antenna (RSAX0002)
- 1 x Remote control battery
- 2 x Speaker cables (REE1713)



- The enclosed Canadian French label sheet corresponds to the English display on the front and rear of the main unit.
- Product numbers provided in this Owner's Manual are correct as of January 2019. These may be subject to change.

Placement of speakers



Place the speakers so that the tweeter is on the inner side. To prevent damage to the speakers, do not touch the speaker cones if you remove the nets.

Use only the supplied speakers.

The combination of the main unit and speakers give the best sound. You can cause damage to the system and decrease the sound quality if you use other speakers.

Note:

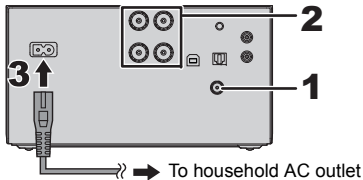
- Keep your speakers more than 10 mm (¹³/₃₂") from the main unit for ventilation.
- Put the speakers on a flat safe surface.
- These speakers do not have magnetic shielding. Do not put them near TVs, PCs or other equipment easily influenced by magnetism.
- When you play at high levels for a long period, it can cause damage to the system and decrease the life of the system.
- Decrease the volume in these conditions to prevent damage:
 - When you play distorted sound.
 - When you adjust the sound quality.

CAUTION!

- Use the speakers only with the recommended system. If not, you can cause damage to the amplifier and speakers and can cause a fire. Consult an approved service personnel if damage occurs or if there is a sudden apparent change in performance.
- Do the procedures included in these instructions when you attach the speakers.

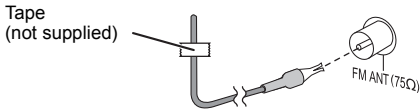
Making the connections

Connect the AC power supply cord only after all the other connections have been made.



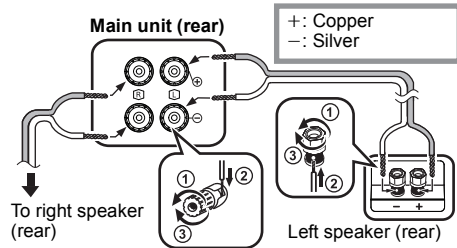
1 Connect the antenna.

Place the antenna where reception is best.



- If radio reception is poor, use an outdoor antenna (not supplied).

2 Connect the speakers.



Be careful not to cross (short-circuit) or reverse the polarity of the speaker wires as doing so may damage the speakers.

3 Connect the AC power supply cord.

Do not use an AC power supply cord with other equipment.

Conserving power

The system consumes a small amount of power (⇒ 16), 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.

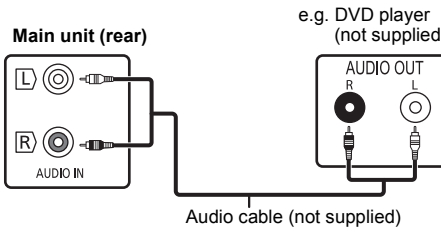
Connecting other equipment

You can connect a DVD player, Portable audio player etc.

Note:

- Disconnect the AC power supply cord before connection.
- Switch off all equipment and read the appropriate operating instructions.
- Components and cables are sold separately.
- If you want to connect equipment other than those described, refer to the audio dealer.
- Sound distortion can occur when you use an adaptor.
- When enjoying video contents with this function, the video and audio output may not be synchronized.

Connecting to AUDIO IN terminal



Connecting to OPT IN (Optical Audio In) terminal

Main unit (rear)



Optical digital audio cable (not supplied)

- The digital audio input terminal of this unit can only detect the following linear PCM (LPCM) signals. For details, refer to the operating instructions of the connected device.
 - Sampling frequency: 32, 44.1, 48, 88.2, 96 kHz
 - Number of quantisation bits: 16/24 bits

Connecting to AUX IN terminal

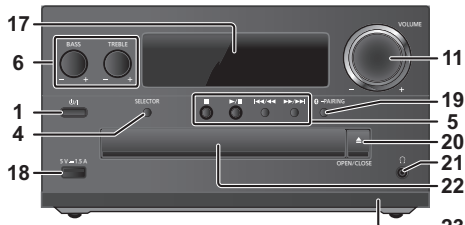
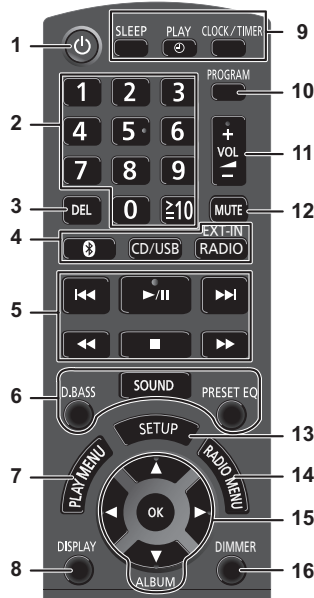
Main unit (rear)



Analog audio cable (∅ 3.5 mm (1/8")) (not supplied)

- When connecting to AUX IN terminal, you can adjust the input level etc. For details, refer to "Using the AUX IN input" (⇒ 13).

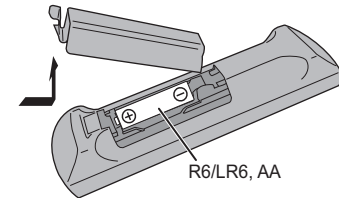
Overview of controls



- 1 Standby/on switch** [⏻], [⏻/⏹]
 Press 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.
- 2 Numeric buttons** [1 to 9, 0, ≥10]
 - To select a 2-digit number
 Example: 16: [≥10] → [1] → [6]
 - To select a 3-digit number
 Example: 124: [≥10] → [≥10] → [1] → [2] → [4]
- 3 Delete a programmed track**
- 4 Select audio source**
 On the remote control
 [Bluetooth]: "BLUETOOTH"
 [CD/USB]: "CD" ↔ "USB"
 [RADIO, EXT-IN]:
 "FM" → "AUDIO IN" → "AUX"
 ↙ "PC" ← "OPT" ↘
 On the main unit
 [SELECTOR]:
 "CD" → "BLUETOOTH" → "FM" → "AUDIO IN"
 ↙ "PC" ← "USB" ← "OPT" ← "AUX" ↘
- 5 Basic playback control**
- 6 Select the sound effects**
- 7 Set the play menu item**
- 8 View content information**
- 9 Clock and timer operation**
- 10 Set the program function**
- 11 Adjust the volume of the system**
- 12 Mute the sound of the system**
 Press the button again to cancel.
 "MUTE" is also canceled when you adjust the volume or when you switch off the system.
- 13 Enter setup menu**
- 14 Set the radio menu item**
- 15 Select the option**
- 16 Dim the display panel**
 Press the button again to cancel.

- 17 Display panel**
- 18 Port for USB devices**
- 19 Bluetooth®-pairing button**
 - Press to select "BLUETOOTH" as the audio source.
 - Press and hold to enter pairing mode (⇔ 7) or disconnect a Bluetooth® device (⇔ 8).
- 20 Open or close the disc tray**
- 21 Headphones jack** (🎧)
 - Plug type: 3.5 mm (1/8") stereo (not supplied)
 - Avoid listening for prolonged periods of time to prevent hearing damage.
 - Excessive sound pressure from earphones and headphones can cause hearing loss.
 - Listening at full volume for long periods may damage the user's ears.
- 22 Disc tray**
 - Do not put any object in front of the disc tray.

Preparing the remote control



- Use alkaline or manganese battery.
- Install the battery so that the poles (+ and -) align with those in the remote control.
- Point the remote control at the remote control sensor, away from obstacles, at a maximum range of 7 m (23 ft) directly in front of the main unit, within an angle of approximately 30° to the left and right.

About Bluetooth®

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

Frequency band used

- This system uses the 2.4 GHz frequency band.

Certification of this device

- This system conforms to 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 this system.
 - 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 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 (33 ft). 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 system 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).

Bluetooth® operations

By using the Bluetooth® connection, you can listen to the sound from the Bluetooth® audio device from this system wirelessly.



- Refer to the operating instructions of the Bluetooth® device for details.

Connecting via Bluetooth® menu


Preparation

- Turn on the Bluetooth® feature of the device and place the device near this unit.

Pairing with Bluetooth® devices

- 1 Press [] to select “BLUETOOTH”.**
If “PAIRING” is indicated on the display, go to step 3.
- 2 Press [PLAY MENU] to select “PAIRING” and then press [OK].**
Alternatively, press and hold [ -PAIRING] on the unit.
- 3 Select “SC-PMX90” from the Bluetooth® device’s Bluetooth® menu.**
The MAC address (e.g., alpha-numerical string that is unique to each set) may be displayed before this unit is displayed.
The name of the connected device is indicated on the display for a few seconds.
- 4 Start playback on the Bluetooth® device.**

Connecting a paired Bluetooth® device

- 1 Press [] to select “BLUETOOTH”.
“READY” is indicated on the display.
- 2 Select “SC-PMX90” from the Bluetooth® device’s Bluetooth® menu.
The name of the connected device is indicated on the display for a few seconds.
- 3 Start playback on the Bluetooth® device.


Note:

- If prompted for the passkey, input “0000”.
- You can register up to 8 devices with this unit. If a 9th device is paired, the device that has not been used for the longest will be replaced.
- This unit can only be connected to one device at a time.
- When “BLUETOOTH” is selected as the source, this unit will automatically try and connect to the last connected Bluetooth® device. (“LINKING” is indicated on the display during this process.) If the connection attempt fails, try to establish a connection again.

Bluetooth® transmission mode

You can change the transmission mode to prioritize transmission quality or sound quality.

Preparation

- Press [] to select “BLUETOOTH”.
- If a Bluetooth® device is already connected, disconnect it.

- 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: Emphasis on sound quality

Note:

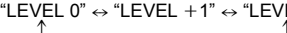
- Select “MODE 1” if the sound is interrupted.
- When enjoying video contents with this function, the video and audio output may not be synchronised. In this case, select “MODE 1”.
- The factory default is “MODE 2”.

Bluetooth® input level

If the sound input level from the Bluetooth® device is too low, change the input level setting.

Preparation

- Connect a Bluetooth® device.

- 1 Press [PLAY MENU] repeatedly to select “INPUT LEVEL”.
- 2 Press [◀, ▶] to select the level and then press [OK].
“LEVEL 0” ↔ “LEVEL +1” ↔ “LEVEL +2”



Note:

- Select “LEVEL 0” if the sound is distorted.
- The factory default is “LEVEL 0”.

Disconnecting a Bluetooth® device

- 1 While a Bluetooth® device is connected:
Press [PLAY MENU] repeatedly to select “DISCONNECT?”.
- 2 Press [◀, ▶] to select “OK? YES” and then press [OK].

Note:

- You can also disconnect the Bluetooth® device by pressing and holding [ -PAIRING] on the unit.
- The Bluetooth® device will be disconnected if a different audio source (e.g., “CD”) is selected.

Bluetooth® standby

When “SC-PMX90” is selected from a paired Bluetooth® device’s Bluetooth® menu, this unit will turn on automatically from standby mode and establish a Bluetooth® connection.

- 1 Press [SETUP] repeatedly to select “BLUETOOTH STANDBY”.
- 2 Press [◀, ▶] to select “ON” and then press [OK].

Note:

- To turn the function off, select “OFF” in step 2.
- The factory default is “OFF”. If this function is set to “ON”, the standby power consumption will increase.

The Bluetooth® word mark and logos are registered trademarks owned by 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.

Media information

- Please be aware that Panasonic accepts no responsibility for the loss of data and/or information.

Compatible USB devices

- This unit does not guarantee connection with all USB devices.
- FAT12, FAT16 and FAT32 file systems are supported.
- This unit supports USB 2.0 High Speed.
- USB devices with storage capacity of more than 32 GB cannot work in some conditions.
- Supported file formats and extensions:
MP3 (“.mp3”), AIFF (“.aiff”), FLAC (“.flac”), WAV (“.wav”), AAC (“.m4a”), DSD (“.dff”, “.dsf”)
- Depending on how you create the files, they may not play in the order you numbered them or may not play at all.

Note:

- Files are defined as tracks and folders are defined as albums.
- This system can access up to:
 - 800 albums (including root folder)
 - 8000 tracks
 - 999 tracks in one album

Compatible CD

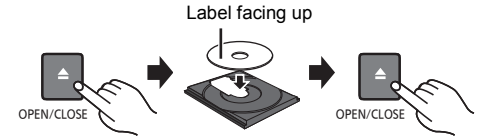
- This system can play back discs that conform to the CD-DA format.
- This system can play back CD-R/RW with CD-DA or MP3 format content.
- The unit may not be able to play some discs due to the condition of the recording.
- Before playback, finalize the disc on the device it was recorded on.
- If the disc includes both MP3 and normal audio data (CD-DA), the unit plays the type recorded in the inner part of the disc.
- This unit cannot play files recorded using packet write.
- Disc must conform to ISO9660 level 1 or 2 (except for extended formats).

Note:

- Some CD-R/RW cannot be played because of the condition of the recording.
- MP3 files are defined as tracks and folders are defined as albums.
- This system can access up to:
 - CD-DA: 99 tracks
 - MP3: 999 tracks, 255 albums (including root folder)
- Recordings will not necessarily be played in the order you recorded them.

Inserting media

CD



Press [CD/USB] repeatedly to select “CD”.

Note:

- Remove the CD only after it stops rotating.

USB device



Press [CD/USB] repeatedly to select “USB”.

Note:

- Insert the USB device directly. Do not use any USB extension cable.
- Please disconnect the USB device if you finish using.
- Before removing the USB device, select a source other than “USB”.

Media playback controls


The following marks indicate the availability of the feature.

CD: CD audio in CD-DA format or a CD that contains MP3 files



















USB: USB devices containing MP3/AIFF/FLAC/WAV/AAC/DSD files

Bluetooth: Connected Bluetooth® device

Preparation

- Turn the unit on.
- Insert the media or connect the Bluetooth® device.
- Press [CD/USB] or [] to select the audio source.

Basic controls **CD** **USB** **Bluetooth**

Play	Press [].
Stop	Press []. <ul style="list-style-type: none"> • USB: The position is memorized and "RESUME" is displayed. • USB: Press [] twice to stop the playback fully.
Pause	Press []. Press again to continue playback.
Skip	Press [] or [] to skip track. (main unit: [ / ] or [ / ]) CD USB : Press [] or [] to skip the MP3/AIFF/FLAC/WAV/AAC/DSD album.
Search	During play or pause Press and hold [] or []. (main unit: [ / ] or [ / ])

Note:

- There will be no sound in search operation when playing DSD files at USB selector.
- To use this unit's remote control with a Bluetooth® device, the Bluetooth® device must support AVRCP (Audio Video Remote Control Profile).
Depending on the status of the device, some controls may not work.
- **CD** **USB**: Tracks can be selected by pressing the numeric buttons.

Viewing available information **CD** **USB**

Bluetooth

You can display the track, artist, album name, file type, bit rate, and other information. (The information varies depending on the audio source.)

Press **[DISPLAY]** repeatedly.

e.g. **USB** (MP3)

"A□□□": Album number

"T□□□": Track number

("□" stands for a number.)



"  ": Album "  ": Track

Note:








- Maximum characters that can be shown: approximately 32
- This system supports ver. 1 and 2 ID3 tags.
- Text data that the system does not support can show differently.

Play menu **CD** **USB**


1 Press **[PLAY MENU]** to select "PLAYMODE" or "REPEAT".

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

PLAYMODE

OFF PLAYMODE	Cancels the play mode setting.
1-TRACK	Only plays the selected track. • "1", "  " is displayed. (Skip to the desired track.)
1-ALBUM	Only plays the selected MP3/AIFF/FLAC/WAV/AAC/DSD album. • Press [] or [] to select the MP3/AIFF/FLAC/WAV/AAC/DSD album. • "1", "  " is displayed.
RANDOM	Plays the contents randomly. • "RND" is displayed.
1-ALBUM RANDOM	Plays the tracks in the selected MP3/AIFF/FLAC/WAV/AAC/DSD album randomly. • Press [] or [] to select the MP3/AIFF/FLAC/WAV/AAC/DSD album. • "1", "  ", "RND" is displayed.

REPEAT

ON REPEAT	Turns on repeat mode. • "  " is displayed.
OFF REPEAT	Turns off repeat mode.

Note:

- During random playback, you cannot skip to tracks which have been played or press the numeric buttons.
- Playmode function does not work with "Program playback".
- The mode is canceled when you open the disc tray or remove the USB device.

Program playback CD USB

This function allows you to program up to 24 tracks.
CD (CD-DA)

- 1 Press **[PROGRAM]** in the stop mode.
"PROGRAM" is shown for a few seconds.
- 2 Press the numeric buttons to select the desired track.
Do this step again to program other tracks.
- 3 Press **[▶/||]** to start playback.

CD (MP3), USB

- 1 Press **[PROGRAM]** in the stop mode.
"PROGRAM" is shown for a few seconds.
- 2 Press **[▲, ▼]** to select the desired album.
- 3 Press **[▶▶]** and then press the numeric buttons to select the desired track.
- 4 Press **[OK]**.
Do steps 2 through 4 again to program other tracks.
- 5 Press **[▶/||]** to start playback.

Check program contents	Press [◀◀] or [▶▶] in the stop mode.
Clear the last track	Press [DEL] in the stop mode.
Cancel program mode	Press [PROGRAM] in the stop mode. • "PGM OFF" is shown for a few seconds.
Clear all programmed tracks	Press [■] in the stop mode. "CLEAR ALL" is shown. Within 5 seconds, press [■] again.

Note:

- The program memory is cleared when you open the disc tray or remove the USB device.

FM radio

30 FM stations can be preset.

Preparation

Press **[RADIO, EXT-IN]** repeatedly to select "FM".

Automatic presetting

- 1 Press **[RADIO MENU]** to select "A.PRESET".
- 2 Press **[◀, ▶]** to select "LOWEST" or "CURRENT" frequency.
LOWEST:
To begin auto preset with the lowest frequency (FM 87.9 or FM 87.5).
CURRENT:
To begin auto preset with the current frequency*1.
• The tuner starts to preset all the stations it can receive into the channels in ascending order.
To cancel, press **[■]**.
- 3 Press **[OK]** to start presetting.
• To change the frequency, refer to "Manual tuning and presetting".

Manual tuning and presetting

- 1 Press **[◀◀]** or **[▶▶]** to tune in to the station.
• Alternatively, press **[◀◀/◀◀]** or **[▶▶/▶▶]** on the main unit when "MANUAL" is selected as the tune mode*2.
To tune automatically, press and hold the button until the frequency starts changing quickly.
- 2 Press **[PROGRAM]**.
- 3 Press the numeric buttons to select a preset number.
Do steps 1 through 3 again to preset more stations. The new station replaces any station that occupies the same preset number.

Selecting a preset station

Press the numeric buttons, **[◀◀]** or **[▶▶]** to select the preset station.

- Alternatively, press **[◀◀/◀◀]** or **[▶▶/▶▶]** on the main unit when "PRESET" is selected as the tune mode*2.

- *2: To change the tune mode
- 1 Press **[RADIO MENU]** repeatedly to select "TUNE MODE".
 - 2 Press **[◀, ▶]** to select "MANUAL" or "PRESET", and then press **[OK]**.

To display the current FM signal status

Press **[DISPLAY]**.

"FM ST": FM stereo broadcast is being received.

"FM - - - -": No broadcast is received or FM broadcast received is weak or in monaural.

"FM MONO": You have set the "FM MODE" to "MONO".
(⇒ 14, "If noise is excessive during FM reception.")

Note:

- "STEREO" is displayed when this unit tunes to a stereo broadcast.

Clock and timers

Setting the clock

This is a 12-hour clock.

1 Press [CLOCK/TIMER] to select "CLOCK".

2 Press [▲, ▼] to set the time and then press [OK].

To check the time

Press [CLOCK/TIMER].

Note:

- Reset the clock regularly to maintain accuracy.

Sleep timer

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

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

"SLEEP 30" → "SLEEP 60" → "SLEEP 90" → "SLEEP 120"
↑ "OFF" (Cancel) ←

Note:

- The remaining time is indicated on the unit's display at every minute except when other operations are performed. "SLEEP 1" is always shown when only 1 minute remains.
- The sleep timer can be used together with the play timer.
- The sleep timer always comes first. Be sure not to set an overlap of timers.

Play timer

You can set the timer to come on at a certain time to wake you up.

Preparation

Set the clock.

1 Press [CLOCK/TIMER] repeatedly to select "TIMER ADJ".

2 Press [▲, ▼] to set the starting time ("ON TIME") and then press [OK].

3 Press [▲, ▼] to set the finishing time ("OFF TIME") and then press [OK].

4 Press [▲, ▼] to select the music source*3 and then press [OK].

Turning the timer on

1 Prepare the selected music source and set the desired volume.

2 Press [⊙, PLAY].

"⊙" is shown.

To cancel, press [⊙, PLAY] again.

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

To check the settings

Press [CLOCK/TIMER] repeatedly to select "TIMER ADJ".

(During standby, press [CLOCK/TIMER] twice.)

Note:

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

*3: "CD", "USB", and "FM" can be set as the music source.

- For timer music source through the port for USB devices, select "USB".

Sound effects

Changing the sound quality

1 Press [SOUND] repeatedly to select a sound effect.

2 Press [◀, ▶] to select the desired setting.

BASS	-4 to +4
TREBLE	
SURROUND	"ON SURROUND" or "OFF SURROUND"

By main unit only

Turn [BASS] or [TREBLE] to adjust the level.

Preset EQ

Press [PRESET EQ] repeatedly to select a setting.

HEAVY	Adds punch to rock
SOFT	For background music
CLEAR	Clarifies higher frequencies
VOCAL	Adds gloss to vocal
FLAT	Cancels the sound effect

D.BASS

This function lets you enjoy a powerful bass effect.

Press [D.BASS] to select "ON D.BASS" or "OFF D.BASS".

Using the AUX IN input

You can change the input level etc. when you listen to the audio from a portable audio player etc. connected to AUX IN terminal.

Preparation

Connect the external equipment to AUX IN terminal.

To adjust the input level

You can adjust the input level.

1 Press [SOUND] repeatedly to select "INPUT LEVEL".

2 Press [◀, ▶] to select "LOW" or "HIGH" and then press [OK].

Note:

- The factory default is "HIGH".
- Select "LOW" if the sound is distorted during "HIGH" input level.
- Read the operating instructions of the external music device for details.
- Components and cables are sold separately.

AUX-IN auto play

The system will automatically switch to AUX source when it detects the signal from an external music device. This function also works in standby mode.

1 Press [SETUP] repeatedly to select "AUX-IN AUTO PLAY".

2 Press [◀, ▶] to select "ON" and then press [OK].

Note:

- The factory default is "OFF".
- This function does not work when the volume of the external music device is low, increase its volume.
- When the function is switched off and every time you switch to AUX source, "AUX-IN AUTO PLAY IS OFF" will be shown once.
- Stop or pause the external music device before you change to other music source or to standby mode so as to prevent the automatic switch to AUX source.
- When you use this function in standby mode, it may require some seconds to be output the sound.
- If this function is set to "ON", the standby power consumption will increase. (Approx. 1.9 W)

Using the PC input

You can play back music on the PC with this system's speakers by connecting a PC to the PC IN terminal on the main unit.

About supported format, refer to "Specifications" (⇒ 17).

Before connecting to a PC

Follow the steps below.

- Refer to the following for the recommended OS versions for your PC:
 - Windows 7, Windows 8, Windows 8.1, Windows 10
 - OS X 10.7, 10.8, 10.9, 10.10, 10.11
 - macOS 10.12, 10.13

- ① Download and install the dedicated driver to the PC. (Only for Windows OS)
Download and install the driver from the website below.
<http://panasonic.jp/support/global/cs/audio/>
(This site is in English only.)
- ② Download and install the dedicated app "Panasonic Audio Player 2" (free of charge) on your PC. (For Windows OS and OS X)
Download and install the app from the website below.
<http://panasonic.jp/support/global/cs/audio/>
(This site is in English only.)

(as of August 2018)

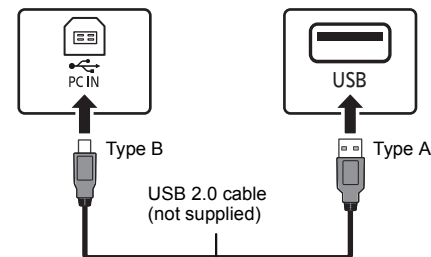
Listening to audio from a PC

1 Disconnect the AC power supply cord.

2 Connect the main unit and a PC.

Main unit (rear)
USB-DAC port

PC



3 Connect the AC power supply cord to the main unit and turn this system on.

4 Press [RADIO, EXT-IN] repeatedly to select "PC".

5 Operate the PC for playback.

Note:

- When you play back high-resolution audio, it is recommended that you use a compatible USB 2.0 High Speed Cable.

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Others

Auto off function

As a factory default, this unit will turn to standby mode automatically if there is no sound and it is not being used for approximately 20 minutes.

To cancel this function

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

Note:

- To turn the function on, select "ON" in step 2.
- This setting cannot be selected when radio is the source.
- When connected to a Bluetooth® device, the function does not work.

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

Press [SETUP] repeatedly to select "SW VER." and then press [OK].

The version of the installed software is displayed.

- Press [OK] 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

Cannot turn on the unit.

- After connecting the AC power supply cord, wait about 10 seconds before turning on the unit.

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, then switch the system 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.
- Ensure the speaker cables are connected correctly and securely. (⇒ 5)
- The digital audio input terminal of this unit can only detect linear PCM (LPCM) signals. For details, refer to the operating instructions of the device.

A "humming" sound can be heard during playback.

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

The unit does not work.

- One of the unit's safety devices may have been activated.
 - 1 Press [⏻/|] on the unit to switch the unit to standby.
 - If the unit does not turn off, disconnect the AC power supply cord from the AC outlet, reconnect it to the outlet after about 30 seconds. Then wait for about 10 seconds.
 - 2 Press [⏻/|] on the unit to switch it on. If the unit still cannot be operated, consult the dealer.

Noise is heard.

- During "AUX" mode, when a device is connected to both the AUX IN terminals and the USB port, noise may be generated depending on the device. In this case, remove the USB cable from the USB port.

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.

Radio

Reception is poor or a beat sound is heard.

- Keep the antenna away from computers, TVs, other cables and cords.
- Use an outdoor antenna.
- Switch off the TV or move it away from the system.

If noise is excessive during FM reception.

- Change the audio to be output as monaural.
 - 1 Press [RADIO MENU] repeatedly to select "FM MODE".
 - 2 Press [◀, ▶] to select "MONO" and then press [OK].The sound becomes monaural.
 - To cancel, select "STEREO" or change the frequency.In normal circumstances, select "STEREO".

Stations cannot be selected.

- Change the FM frequency step.
 - 1 Press [SELECTOR] on the unit repeatedly to select "FM".
 - 2 Press and hold [■] on the unit.
 - After a few seconds the display changes to show the current lowest frequency. Continue to hold the button down. The lowest frequency changes and the step is changed.

USB

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

- The format of the USB device or the contents in it is/ are not compatible with the system.

Slow operation of the USB device.

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

The elapsed time shown is different from the actual play time.

- Transfer the data to another USB device or backup the data and reformat the USB device.

Bluetooth®

Pairing cannot be done.

- Check the Bluetooth® device condition.

The device cannot be connected.

- The pairing of the device was unsuccessful or the registration has been replaced. Try pairing the device again.
- This system might be connected to a different device. Disconnect the other device and try pairing the device again.
- If "MODE 2" is selected in "LINK MODE", select "MODE 1". (⇒ 8)
- If the problem persists, turn the unit off and on, then try again.

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

- For some built-in Bluetooth® devices, you have to set the audio output to "SC-PMX90" manually. Read the operating instructions for the device for details.

The sound is interrupted.

- The device is out of the 10 m (33 ft) communication range. Bring the Bluetooth® device closer to this system.
- Remove any obstacle between this system and the device.
- Other devices that use the 2.4 GHz frequency band (wireless router, microwaves, cordless phones, etc.) are interfering. Bring the Bluetooth® device closer to this system and distance it from the other devices.
- Select "MODE 1" for stable communication. (⇒ 8)

AUX

"AUX-IN auto play" does not work.

- You have not connected the external music device correctly.
- Increase the volume of the external music device.
- If "OFF" was selected during "AUX-IN AUTO PLAY", select "ON".

Unintentional automatic switch to AUX source.

- Connect the audio cable to the system only after all the other connections have been made.
Noise may be detected when connecting the external music device and it will cause the set to automatically switch to AUX source.

PC

The PC does not recognize this system.

- Check your operating environment. (⇒ 13)
- Restart the PC, turn off and on this system, and then reconnect the USB cable.
- Use another USB port of the connected PC.
- Install the dedicated driver if using a PC with Windows.

Main unit displays

"--:--"

- You connected the AC power supply cord for the first time or there was a power failure recently. Set the clock.

"ADJUST CLOCK"

- Clock is not set. Adjust the clock accordingly.

"ADJUST TIMER"

- Play timer is not set. Adjust the play timer accordingly.

"AUTO OFF"

- The unit has been left unused for about 20 minutes and will shut down in a minute. Press any button to cancel it.

"CHECKING CONNECTION"

- The unit is checking the connected USB device.

"DIMMER"

- Appears 10 seconds after the volume is turned to "0".

"ERROR"

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

"F□□" / "F□□□" ("□" stands for a number.)

- There is a problem with this unit.
Disconnect the AC power supply cord from the AC outlet, reconnect it to the outlet after about 30 seconds. Wait for about 10 seconds, then turn on the unit. If the problem still persists, disconnect the AC power supply cord and consult your dealer.

"NO DEVICE"

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

"NO DISC"

- You have not put in a disc or put in a disc that the system cannot play.

"NO PLAY"

- Examine the content. You can only play supported format. (⇒ 16)
- The files in the USB device can be corrupted. Format the USB device and try again.
- The unit may have a problem. Turn the unit off and then on again.

“DEVICE NO RESPONSE”

“HUB NOT SUPPORTED”

“NOT SUPPORTED”

- You have connected an unsupported USB device.

“OPT UNLOCKED”

- “OPT” is selected, but no device is connected.
- The sampling frequency components, etc. of the audio signals are not input correctly.
 - For supported formats, refer to “Connecting to OPT IN (Optical Audio In) terminal” (⇒ 5).

“PC UNLOCKED”

- “PC” is selected, but a PC is not connected.

“PGM FULL”

- The number of programmed tracks is more than 24.

“PLAYERROR”

- You played an unsupported file. The system will skip that track and play the next one.

“READING”

- The unit is checking the CD information. After this display has disappeared, start operating.
- When starting playback of DSD files, it may take time to read the file. Wait until reading completes.

“REMOTE □” (“□” stands for a number.)

- The remote control and this unit are using different codes. Change the code on the remote control.
 - When “REMOTE 1” is displayed, press and hold [OK] and [1] for at least 4 seconds.
 - When “REMOTE 2” is displayed, press and hold [OK] and [2] for at least 4 seconds.

“USB OVER CURRENT ERROR”

- The USB device is drawing too much power. Remove the USB device. Switch the system off and on again.

“VBR”

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

“WAIT”

- This is displayed, for example, when this unit is turning off.

Memory reset (initialization)

Reset the memory when the following situations occur:

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

1 Disconnect the AC power supply cord.

Wait 30 seconds before you continue with step 2.

2 While you press and hold [⏻] on the main unit, connect the AC power supply cord again.

Keep holding down [⏻] until “-----” appears on the display.

3 Release [⏻].

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

Remote control code

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

To set the code to “REMOTE 2”

1 Press [SELECTOR] on the main unit to select “CD”.

2 Press and hold [■] on the main unit and [2] on the remote control until “REMOTE 2” is shown.

3 Press and hold [OK] and [2] for a minimum of 4 seconds.

- The factory default is “REMOTE 1”.
- To change the mode back to “REMOTE 1”, repeat the steps above but replace the button pressed on the remote control from [2] to [1].

Specifications

General

Power supply AC 120 V, 60 Hz

Power consumption 40 W

Dimensions (main unit)

(W × H × D) 211 mm × 114 mm × 267 mm

(8 5/16" × 4 1/2" × 10 1/2")

Mass (main unit) Approx. 2.8 kg (6.2 lbs)

Operating temperature range 0 °C to +40 °C (+32 °F to +104 °F)

Operating humidity range 35 % to 80 % RH (no condensation)

Power consumption in standby mode*1,2

0.25 W (approx.)

(When “BLUETOOTH STANDBY” is “ON”)*2

0.35 W (approx.)

*1: “BLUETOOTH STANDBY” is “OFF”.

*2: No device is connected to the USB port before turning to standby mode.

Amplifier section

RMS output power

Front Ch (both ch driven)

60 W per channel (3 Ω), 1 kHz, 10% THD

Total RMS power 120 W

FM section

Preset memory 30 stations

Frequency range

87.9 MHz to 107.9 MHz (200 kHz step)

87.5 MHz to 108.0 MHz (100 kHz step)

Antenna terminals 75 Ω (unbalanced)

Disc section

Disc played (8 cm (3") or 12 cm (5"))

CD, CD-R/RW (CD-DA, MP3*3)

Pick up

Wavelength 790 nm (CD)

*3: MPEG-1 Layer 3, MPEG-2 Layer 3

Terminals section

Headphones Jack	Stereo, Ø3.5 mm (1/8")
USB (USB-A)	FRONT USB Type A Connector
File system	FAT12, FAT16, FAT32
USB port power	DC OUT 5 V 1.5 A MAX
PC (USB-B)	REAR USB Type B Connector
AUX IN	Stereo, Ø3.5 mm (1/8") Jack
AUDIO IN	Line input (Pin jack)
Digital input	Optical digital input (Optical terminal)
Format support	LPCM

Format section

USB-A	USB standard	USB 2.0 High Speed
	USB Mass Storage class	
	Format Support	

MP3/AAC	32, 44.1, 48 kHz/ 16 to 320 kbps
AIFF/ FLAC/WAV	32, 44.1, 48, 88.2, 96, 176.4, 192 kHz/ 16, 24 bits
DSD	2.8 MHz

USB-B	USB standard	USB 2.0 High Speed
	USB Audio Class specification	
	USB Audio Class 2.0, Asynchronous mode	
	Format Support	

LPCM	32, 44.1, 48, 88.2, 96, 176.4, 192 kHz/ 16, 24 bits
DSD	2.8 MHz

DSD control mode ASIO Native mode, DoP mode

Speaker section

Speaker unit(s)	
Woofers	14 cm (5 1/2") cone type × 1
Tweeter	1.9 cm (3/4") dome type × 1
Super tweeter	1.5 cm (19/32") piezoelectric type × 1
Impedance	3 Ω
Dimensions (W × H × D)	161 mm × 238 mm × 262 mm (6 5/16" × 9 3/8" × 10 5/16")
Mass	Approx. 2.6 kg (5.7 lbs)

Bluetooth® section

Bluetooth® System Specification	Bluetooth® Ver.2.1+EDR
Wireless Equipment Classification	Class 2 (2.5 mW) A2DP, AVRCP
Supported Profiles	AAC, SBC
Supported Codec	2.4 GHz band FH-SS
Frequency band	
Operation Distance	approx. 10 m (33 ft) Line of sight*4

*4: Prospective communication distance.
Measurement environment: Temperature 25 °C (77 °F)
Height 1.0 m (3.3 ft). Measure in "MODE 1".

Note:

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

The product with the Hi-Res Audio logo is conformed to Hi-Res Audio standard defined by Japan Audio Society. The logo is used under license from Japan Audio Society.

FLAC Decoder
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Panasonic Canada Inc.

5770 Ambler Drive, Mississauga, Ontario L4W 2T3

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Panasonic Audio Receivers - One (1) year, parts and labour

Home Theater Systems Product - One (1) year, parts and labour

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For product operation, repairs and information assistance, please visit our Support page:
www.panasonic.ca/english/support

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Carefully pack and send prepaid, adequately insured and preferably in the original carton. Include details of the defect claimed, and proof of date of original purchase.

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