Panasonic

Operating Instructions

CD Stereo System

Model No. **SC-PM5**

Dear customer

Thank you for purchasing this product.

For optimum performance and safety, please read these instructions thoroughly before connecting, operating or adjusting this product.

Please keep this manual for future reference.

SUPPLIED ACCESSORIES

Please check and identify the supplied accessories.

1 x AC mains lead

For Continental Europe, Southeast Asia and Middle Eastern countries
(K2CQ2CA00007)

For Australia and N.Z.
(K2CJ2DA00010)

For Southeast Asia
(K2CP2CA00001)

1 x Remote control
(N2QAYB000384)

1 x Antenna

Operations in these instructions are described using remote control, but you can do the operations with the main unit if the controls are the same.

Your unit may not look exactly as illustrated.

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EP GN GA

RQTX0182-B

These operating instructions are applicable to the following system.

System	SC-PM5
Main unit	SA-PM5
Speakers	SB-PM5

LUOKAN 1 LASERLAITE
KLASS 1 LASER APPARAT

CAUTION	– CLASS 1M INVISIBLE LASER RADIATION WHEN OPEN. DO NOT VIEW DIRECTLY WITH OPTICAL INSTRUMENTS. IEC60825-1 +A2/ Class 1M
VARNING	– KLASS 1M OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD. BETRAKTA EJ STRÅLEN DIREKT GENOM OPTISKT INSTRUMENT.
FORSIGTIG	– USYNLIG LASERSTRÅLING KLASSE 1M, NÅR LÅGET ER ÅBENT. UNDGÅ AT SE LIGE PÅ MED OPTISKE INSTRUMENTER.
VARO!	– AVATTAESSA OLET ALTTIINA LUOKAN 1M NÄKYMÄTÖNTÄ LASERSÄTEILYÄ. ÄLÄ KATSO OPTISELLA LAITTEELLA SUORAAN SÄTEESEEN.
VORSICHT	– UNSICHTBARE LASERSTRAHLUNG KLASSE 1M, WENN ABDECKUNG GEÖFFNET. NICHT DIREKT MIT OPTISCHEN INSTRUMENTEN BETRACHTEN.
ATTENTION	– RAYONNEMENT LASER INVISIBLE, CLASSE 1M, EN CAS D'OUVERTURE. NE PAS REGARDER DIRECTEMENT À L'AIDE D'INSTRUMENTS D'OPTIQUE.
注意	– ここを開くと不可視レーザ光が出ます。 ビームを見たり、触れたりしないでください。
注意	– 打开时有不可见激光辐射。避免光束照射。 GB7241.1-2001/3B 类 RQLXS0071

Inside of product
Tuotteen sisällä
Produktets innside

CAUTION!

THIS PRODUCT UTILIZES A LASER.
USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.
DO NOT OPEN COVERS AND DO NOT REPAIR YOURSELF. REFER SERVICING TO QUALIFIED PERSONNEL.

WARNING:

TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK OR PRODUCT DAMAGE,

- **DO NOT EXPOSE THIS APPARATUS TO RAIN, MOISTURE, DRIPPING OR SPLASHING AND THAT NO OBJECTS FILLED WITH LIQUIDS, SUCH AS VASES, SHALL BE PLACED ON THE APPARATUS.**
- **USE ONLY THE RECOMMENDED ACCESSORIES.**
- **DO NOT REMOVE THE COVER (OR BACK); THERE ARE NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.**

CAUTION!

- **DO NOT INSTALL OR PLACE THIS UNIT IN A BOOKCASE, BUILT-IN CABINET OR IN ANOTHER CONFINED SPACE. ENSURE THE UNIT IS WELL VENTILATED. TO PREVENT RISK OF ELECTRIC SHOCK OR FIRE HAZARD DUE TO OVERHEATING, ENSURE THAT CURTAINS AND ANY OTHER MATERIALS DO NOT OBSTRUCT THE VENTILATION VENTS.**
- **DO NOT OBSTRUCT THE UNIT'S VENTILATION OPENINGS WITH NEWSPAPERS, TABLECLOTHS, CURTAINS, AND SIMILAR ITEMS.**
- **DO NOT PLACE SOURCES OF NAKED FLAMES, SUCH AS LIGHTED CANDLES, ON THE UNIT.**
- **DISPOSE OF BATTERIES IN AN ENVIRONMENTALLY FRIENDLY MANNER.**

The socket outlet shall be installed near the equipment and easily accessible.
The mains plug of the power supply cord shall remain readily operable.
To completely disconnect this apparatus from the AC Mains, disconnect the power supply cord plug from AC receptacle.

This product may receive radio interference caused by mobile telephones during use. If such interference is apparent, please increase separation between the product and the mobile telephone.

For Continental Europe, Australia and N.Z.

THIS UNIT IS INTENDED FOR USE IN MODERATE CLIMATES.

For Southeast Asia and Middle Eastern countries

THIS UNIT IS INTENDED FOR USE IN TROPICAL CLIMATES.

SUOMI

VAROITUS!

LAITTEEN KÄYTTÄMINEN MUULLA KUIN TÄSSÄ KÄYTTÖOHJEESSA MAINITULLA TAVALLA SAATTAA ALTISTAA KÄYTTÄJÄN TURVALLISUUSLUOKAN 1 YLITTÄVÄLLE NÄKYMÄTTÖMÄLLE LASERSÄTEILYLLE.

VAROITUS!

- **ÄLÄ ASENNA TAI LAITA TÄTÄ LAITETTA KABINETTITYYPPISEEN KIRJAKAAPPIIN TAI MUUHUN SULJETTUUN TILAAN, JOTTA TUULETUS ONNISTUISI. VARMISTA, ETTÄ VERHO TAI MIKÄÄN MUU MATERIAALI EI HUONONNA TUULETUSTA, JOTTA VÄLTETTÄISIIN YLIKUUMENEMISESTA JOHTUVA SÄHKÖISKU- TAI TULIPALOVAARA.**
- **ÄLÄ PEITÄ LAITTEEN TUULETUSAUKKOJA SANOMALEHDELLÄ, PÖYTÄLIINALLA, VERHOLLA TAI MUULLA VASTAAVALLA ESINEELLÄ.**
- **ÄLÄ ASETA PALAVAA KYNTTILÄÄ TAI MUUTA AVOTULEN LÄHDETTÄ LAITTEEN PÄÄLLE.**
- **HÄVITÄ PARISTOT LUONTOA VAHINGOITTAMATTOMALLA TAVALLA.**

VAROITUS:

VÄHENNÄ TULIPALON, SÄHKÖISKUN TAI LAITTEISTON VAHINGOITTUMISEN VAARAA

- **TÄTÄ LAITETTA EI SAA ALTISTAA SATEELLE, KOSTEUDELLE, ROISKEILLE TAI TIPPUVILLE NESTEILLE. LAITTEEN PÄÄLLE EI SAA MYÖSKÄÄN ASETTAA MITÄÄN NESTEELLÄ TÄYTETTYÄ ESINETTÄ, KUTEN MALJAKKOA.**
- **KÄYTÄ VAIN SUOSITELTUJA LISÄVARUSTEITA.**
- **ÄLÄ IRROTA KANTTA (TAI TAUSTAA). SISÄLLÄ EI OLE KÄYTTÄJÄN HUOLLETTAVISSA OLEVIA OSIA. HUOLLON SAA SUORITTAA VAIN AMMATTITAITOINEN HENKILÖKUNTA.**

Pistorasia tulee asentaa laitteen lähelle helppopääsyiseen paikkaan.
Verkkojohdon pistokkeen on oltava aina helposti käytettävissä.
Tämä laite voidaan kytkeä kokonaan irti verkkovirrasta irrottamalla verkkojohdon pistoke pistorasiasta.

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NORSK

ADVARSEL!

DETTE PRODUKTET ANVENDER EN LASER. BETJENING AV KONTROLLER, JUSTERINGER ELLER ANDRE INNGREP ENN DE SOM ER BESKREVET I DENNE BRUKSANVISNING, KAN FØRE TIL FARLIG BESTRÅLING. DEKSLER MÅ IKKE ÅPNES, OG FORSØK ALDRI Å REPARERE APPARATET PÅ EGENHÅND. ALT SERVICE OG REPARASJONSARBEID MÅ UTFØRES AV KVALIFISERT PERSONELL.

ADVARSEL!

- **APPARATET MÅ IKKE PLASSERES I EN BOKHYLLE, ET INNEBYGGET KABINETT ELLER ET ANNET LUKKET STED HVOR VENTILASJONSFORHOLDENE ER UTILSTREKKELIGE. SØRG FOR AT GARDINER ELLER LIGNENDE IKKE FORVERRER VENTILASJONSFORHOLDENE, SÅ RISIKO FOR ELEKTRISK SJOKK ELLER BRANN FORÅRSAKET AV OVERHETING UNNGÅS.**
- **APPARATETS VENTILASJONSÅPNINGER MÅ IKKE DEKKES TIL MED AVISER, BORDDUKER, GARDINER OG LIGNENDE.**
- **PLASSER IKKE ÅPEN ILD, SLIK SOM LEVENDE LYS, OPPÅ APPARATET.**
- **BRUKTE BATTERIER MÅ KASSERES UTEN FARE FOR MILJØET.**

ADVARSEL:

FØLG NEDENSTÅENDE INSTRUKSER FOR Å REDUSERE RISIKOEN FOR BRANN, ELEKTRISK STØT OG SKADE PÅ PRODUKTET:

- **DETTE APPARATET MÅ IKKE UTSETTES FOR REGN, FUKTIGHET, DRYPP ELLER SPRUT, OG INGEN VÆSKEFYLTE GJENSTANDER, SOM F.EKS. VASER, MÅ PLASSERES PÅ APPARATET.**
- **BRUK KUN ANBEFALT TILBEHØR.**
- **IKKE FJERN DEKSELET (ELLER BAKSIDEN); APPARATET INNEHOLDER INGEN DELER SOM KAN SKIFTES ELLER REPARERES AV BRUKEREN. OVERLAT TIL KVALIFISERTE SERVICETEKNIKERE Å UTFØRE SERVICE.**

Strømuttaket må befinne seg i nærheten av utstyret og være lett tilgjengelig.
Støpslet på strømkabelen må være klart til bruk.
Når dette apparatet skal kobles helt fra strømnettet (AC), må støpslet på strømkabelen trekkes ut av stikkontakten.

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

These symbols on the products, packaging, and/or accompanying documents mean that used electrical and electronic products and batteries should not be mixed with general household waste. For proper treatment, recovery and recycling of old products and used batteries, please take them to applicable collection points, in accordance with your national legislation and the Directives 2002/96/EC and 2006/66/EC.
By disposing of these products and batteries correctly, you will help to save valuable resources and prevent any potential negative effects on human health and the environment which could otherwise arise from inappropriate waste handling. For more information about collection and recycling of old products and batteries, please contact your local municipality, your waste disposal service or the point of sale where you purchased the items.
Penalties may be applicable for incorrect disposal of this waste, in accordance with national legislation.

For business users in the European Union
If you wish to discard electrical and electronic equipment, please contact your dealer or supplier for further information.

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

Note for the battery symbol (bottom two symbol examples):
This symbol might be used in combination with a chemical symbol. In this case it complies with the requirement set by the Directive for the chemical involved.

Safety precautions

Placement

Set the unit up on an even surface away from direct sunlight, high temperatures, high humidity, and excessive vibration. These conditions can damage the cabinet and other components, thereby shortening the unit's service life.

Place it at least 15 cm away from wall surfaces to avoid distortion and unwanted acoustical effects.

Do not place heavy items on the unit.

Voltage

Do not use high voltage power sources. This can overload the unit and cause a fire.

Do not use a DC power source. Check the source carefully when setting the unit up on a ship or other place where DC is used.

AC mains lead protection

Ensure the AC mains lead is connected correctly and not damaged. Poor connection and lead damage can cause fire or electric shock. Do not pull, bend, or place heavy items on the lead.

Grasp the plug firmly when unplugging the lead. Pulling the AC mains lead can cause electric shock.

Do not handle the plug with wet hands. This can cause electric shock.

Foreign matter

Do not let metal objects fall inside the unit. This can cause electric shock or malfunction.

Do not let liquids get into the unit. This can cause electric shock or malfunction. If this occurs, immediately disconnect the unit from the power supply and contact your dealer.

Do not spray insecticides onto or into the unit. They contain flammable gases which can ignite if sprayed into the unit.

Service

Do not attempt to repair this unit by yourself. If sound is interrupted, indicators fail to light, smoke appears, or any other problem that is not covered in these instructions occurs, disconnect the AC mains lead and contact your dealer or an authorized service center. Electric shock or damage to the unit can occur if the unit is repaired, disassembled or reconstructed by unqualified persons.

Extend operating life by disconnecting the unit from the power source if it is not to be used for a long time.

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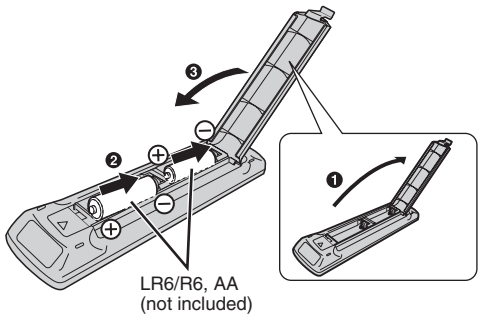
Preparing the remote control

Use alkaline or manganese batteries.

Insert so the poles (+ and –) match those in the remote control.



Aim at the remote control signal sensor (➡ page 6), avoiding obstacles, at a maximum range of 7 m directly in front of the unit.

Note on using the remote control

- Do not mix old and new batteries.
- Do not use different types of batteries at the same time.
- Do not take apart or short circuit the batteries.
- Do not attempt to recharge alkaline or manganese batteries.
- Do not use batteries if the covering has been peeled off.
- Do not heat or expose to flame.
- Do not leave the battery(ies) in an automobile exposed to direct sunlight for a long period of time with doors and windows closed.
- Mishandling of batteries in the remote control can cause electrolyte leakage, which may cause a fire.
- Remove the batteries if the remote control is not going to be used for a long period of time. Store in a cool, dark place.

CAUTION
Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the manufacturer. Dispose of used batteries according to the manufacturer's instructions.

Placement of speakers

Speakers are designed identically so that no left or right channel orientation is necessary.

Use only the supplied speakers.
The combination of the main unit and speakers provide the best sound. Using other speakers can damage the unit and sound quality will be negatively affected.

Note:

- Keep your speakers at least 10mm away from the system for proper ventilation.
- These speakers do not have magnetic shielding. Do not place them near televisions, personal computers or other devices easily influenced by magnetism.
- You can damage your speakers and shorten their useful life if you play sound at high levels over extended periods.
- Reduce the volume in the following cases to avoid damage.
  – When playing distorted sound.
  – When adjusting the sound quality.
- You cannot take the front net off the speakers.

Caution

- **Use the speakers only with the recommended system. Failure to do so can damage the amplifier and speakers, and can cause fire. Consult a qualified service person if damage occurs or if a sudden change in performance is apparent.**
- **Do not attach these speakers to walls or ceilings.**

NOTE about using a DualDisc

The digital audio content side of a DualDisc does not meet the technical specifications of the Compact Disc Digital Audio (CD-DA) format so playback may not be possible.

NOTE on MP3

- Files are treated as tracks and folders are treated as albums.
- This unit can access up to 999 tracks, 255 albums and 20 sessions.
- Disc must conform to ISO9660 level 1 or 2 (except for extended formats).
- To play in a certain order, prefix the folder and file names with 3-digits numbers in the order you want to play them.

Limitations on MP3 play

- If you have recorded MP3 on the same disc as CD-DA, only the format recorded in the first session can be played.
- Some MP3s may not be played due to the condition of the disc or recording.
- Recordings will not necessarily be played in the order you recorded them.

NOTE on CDs

- This unit can access up to 99 tracks.
- This unit can play MP3 files and CD-DA format audio CD-R/RW that have been finalized.
- It may not be able to play some CD-R/RW due to the condition of the recording.
- Do not use irregularly shaped disc.
- Do not use disc with labels and stickers that are coming off or with adhesive exuding from under labels and stickers.
- Do not attach extra labels or stickers on the disc.
- Do not write anything on the disc.

NOTE on USB

Compatible devices
Devices which are defined as USB mass storage class:

- USB devices that support bulk only transfer.
- USB devices that support USB 2.0 full speed.

Supported format

- Folders are defined as album.
- Files are defined as track.
- Track must have the extension ".mp3" or ".MP3".
- CBI (Control/Bulk/Interrupt) is not supported.
- A device using NTFS file system is not supported. [Only FAT 12/16/32 (File Allocation Table 12/16/32) file system is supported]
- Depending on the sector size, some files may not work.
- Maximum album: 255 albums
- Maximum track: 2500 tracks
- Maximum track in one album: 999 tracks

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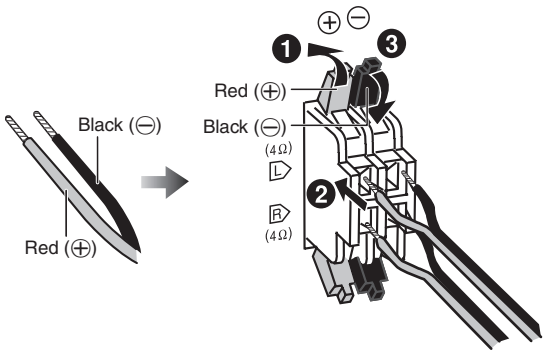
Making the connections

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

Speaker connections

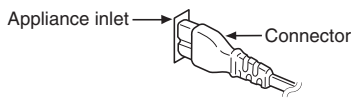


Incorrect connection can damage the unit.

AC mains lead connections

Insertion of connector

Even when the connector is perfectly inserted, depending on the type of inlet used, the front part of the connector may jut out as shown in the drawing. However there is no problem using the unit.



For your reference

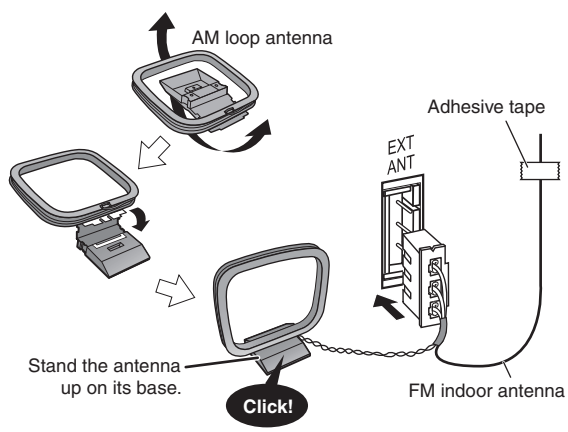
To save power when the unit is not to be used for a long time, unplug it from the household mains socket. You will need to reset some memory items after plugging in the unit.

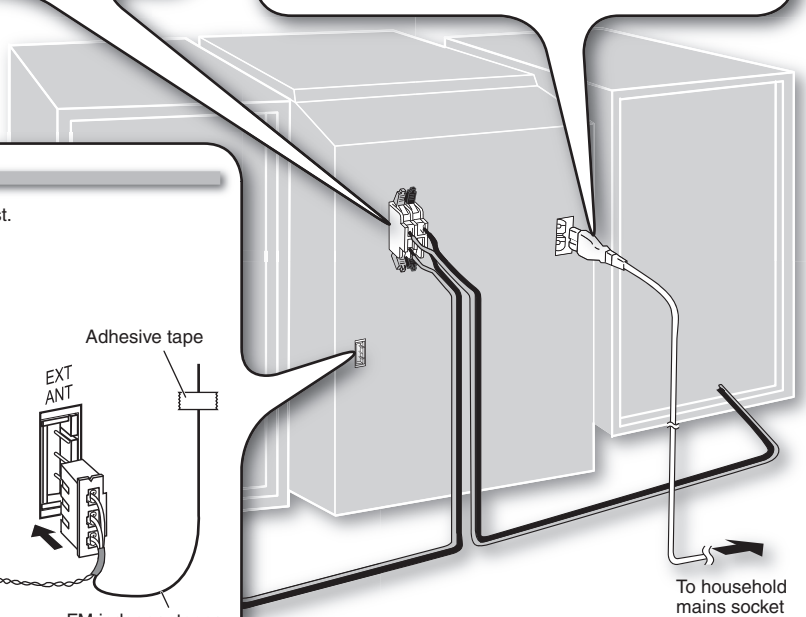
Note:

- The included AC mains lead is for use with this unit only. Do not use it with other equipment.
- Do not use an AC mains lead from other equipment.

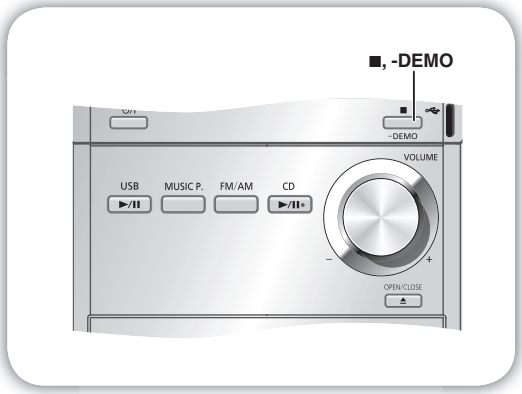
Antenna connections

Place the antenna where reception is best.





DEMO function



When the unit is first plugged in, a demonstration of its functions may be shown on the display.

If the demo setting is off, you can show a demonstration by selecting “DEMO ON”.

Press and hold [■, -DEMO] (demo).

The display changes each time you press and hold the button.

→ DEMO OFF → DEMO ON

While in standby mode, select “DEMO OFF” to reduce power consumption.

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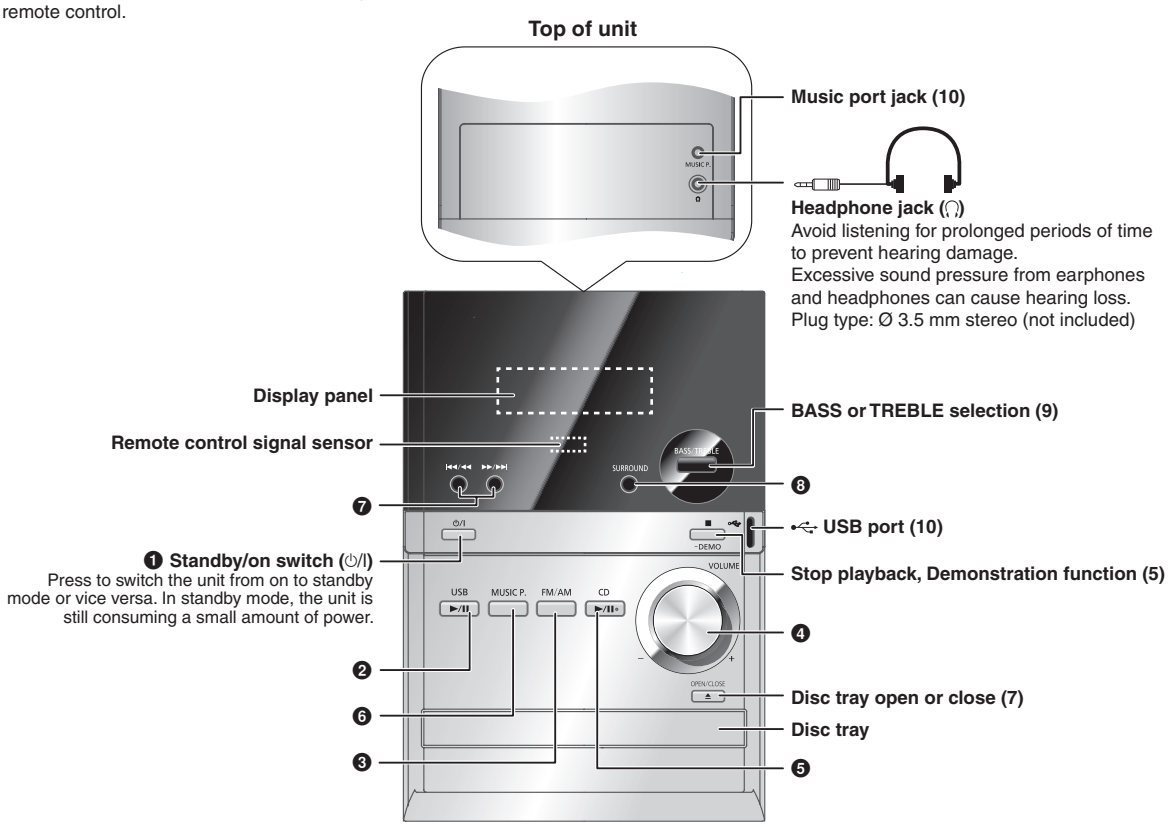
Overview of controls

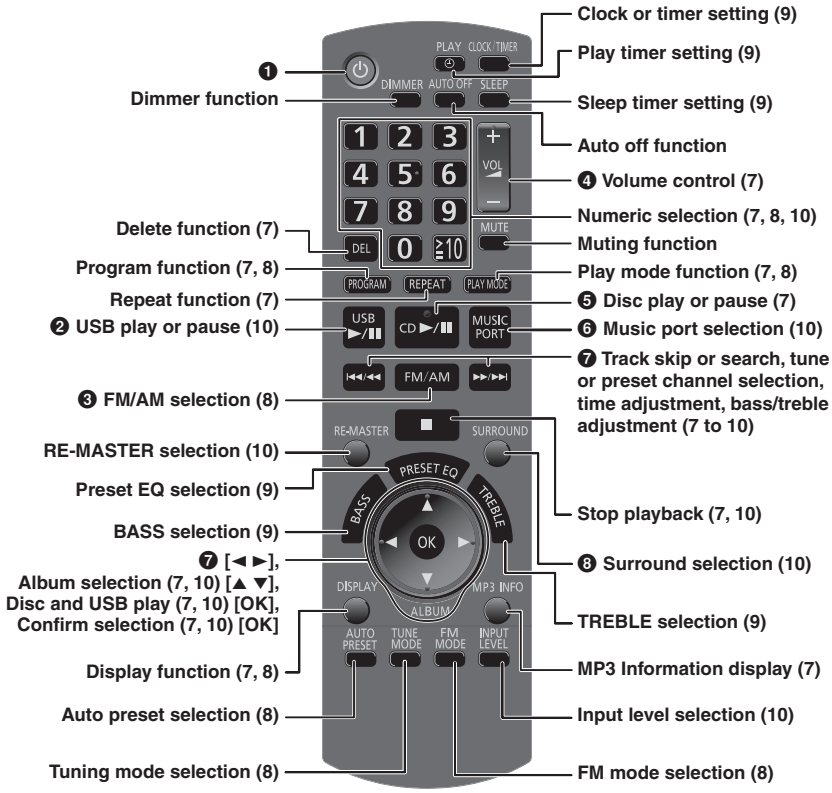
Main unit

Refer to the numbers in parentheses for page reference. Buttons labelled such as ❶ function in exactly the same way as the controls on the remote control.



Remote control

Buttons labelled such as ❶ function in exactly the same way as the controls on the main unit.



AUTO OFF — This auto off function allows you to turn off the unit in **disc or USB** mode only after left unused for 10 minutes.

The setting is maintained even if the unit is turned off.

DIMMER — Dims the display panel.

MUTE — Mutes the sound.

- Press the button to activate
- Press again to cancel

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Discs

Basic play

1 **Press [⏻] to turn the unit on.**

2 **Press [⏏, OPEN/CLOSE] to open the disc tray and then load the disc. Press [⏏, OPEN/CLOSE] again to close.**

3 **Press [▶/❚❚, CD] or [OK] to start play.**

4 **Adjust the volume.**

Stop playback ■	Press [■] (stop).
Pause play CD ▶/❚❚	Press [▶/❚❚, CD]. Press again to resume play.
Skip tracks I◀◀/◀◀ ▶▶/▶▶I	Press [I◀◀/◀◀] or [▶▶/▶▶I]. During RANDOM or 1-ALBUM RANDOM play, you cannot skip to tracks that have been played. During RANDOM play, you can search backward or forward only within the current track. (➡ see "Play Mode function")
Search through tracks I◀◀/◀◀ ▶▶/▶▶I	CD Press and hold [I◀◀/◀◀] or [▶▶/▶▶I] during play or pause.
Skip album OK ALBUM	MP3 Press [▲/▼, ALBUM] in the play mode. Press [▲/▼, ALBUM] once and then the numeric buttons in the stop mode.

PLAY MODE Play Mode function

CD MP3

Press [PLAY MODE] to select the desired mode.

1-TRACK 1TR	Plays one selected track on the disc. Press the numeric buttons to select the track.
1-ALBUM 1ALBUM OK ALBUM	MP3 Plays one selected album on the disc. Press [▲/▼, ALBUM] to select the album.
RANDOM RND	Plays a disc randomly.
1-ALBUM RANDOM 1ALBUM RND OK ALBUM	MP3 Plays all tracks in one selected album randomly. Press [▲/▼, ALBUM] to select the album.

DISPLAY MP3 INFO Checking the track information

You can view the information of the current track from the display panel.

Press [DISPLAY] repeatedly during play or pause.

CD

→ Elapsed play time → Remaining play time →

MP3

→ Elapsed play time → Album name → Track name →

Press [MP3 INFO] repeatedly during play or pause.

MP3

→ ID3 (Album) → ID3 (Track) → ID3 (Artist) →
Elapsed play time →

Note:
- This unit supports ver. 1.0 & 1.1 ID3 tags. Text data that is not supported will not be displayed.
- ID3 is a tag embedded in MP3 tracks to provide information about the track.

Advanced play

REPEAT Repeat Play

CD MP3

You can repeat program play or other selected play mode.

Press [REPEAT].
"ON REPEAT" and "↻" are displayed.

To cancel
Press [REPEAT] again.
"OFF REPEAT" is displayed and "↻" is cleared.

PROGRAM Program Play

This function allows you to program up to 24 tracks.

CD

1 **Press [▶/❚❚, CD] and then [■] (stop).**

2 **Press [PROGRAM].**

3 **Press the numeric buttons to select your desired track.**
Repeat this step to program other tracks.

4 **Press [▶/❚❚, CD] to start play.**

MP3

1 **Press [▶/❚❚, CD] and then [■] (stop).**

2 **Press [PROGRAM].**

3 **Press [▲/▼, ALBUM] to select your desired album.**

4 **Press [▶▶/▶▶I] once and then the numeric buttons to select your desired track.**

5 **Press [OK].**
Repeat steps 3 to 5 to program other tracks.

6 **Press [▶/❚❚, CD] to start play.**

Cancel program mode	Press [PROGRAM] in the stop mode.
Replay the program	Press [PROGRAM] then [▶/❚❚, CD] in the stop mode.
Check program contents	Press [I◀◀/◀◀] or [▶▶/▶▶I] when "PGM" is displayed in the stop mode. To check while programming, press [PROGRAM] twice after "PGM" appears, then press [I◀◀/◀◀] or [▶▶/▶▶I].
Add to the program	CD Repeat step 3 in the stop mode. MP3 Repeat steps 3 to 5 in the stop mode.
Clear the last track	Press [DEL] in the stop mode.
Clear all programmed tracks	Press [■] (clear) in the stop mode. "CLR ALL" is displayed. Press [■] (clear) again to confirm.

Note:
- When you try to program more than 24 tracks, "PGM FULL" appears.
- The program memory is cleared when you open the disc tray.

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Using the FM/AM radio

FM/AM TUNE MODE

Manual tuning

1 **Press [FM/AM] to select “FM” or “AM”.**

2 **Press [TUNE MODE] to select “MANUAL”.**

3 **Press [|◄◄/◄◄] or [►►/►►|] to select the frequency of the required station.**

To tune automatically

Press [|◄◄/◄◄] or [►►/►►|] for a moment until the frequency starts changing rapidly. The unit begins auto tuning, stopping when it finds a station.

- Auto tuning may not function when there is excessive interference.
- To cancel auto tuning, press [|◄◄/◄◄] or [►►/►►|] once again.

FM MODE

To improve FM sound quality

Press [FM MODE] to display “MONO”.

To cancel

Press [FM MODE] again until “MONO” disappears.

- MONO is also cancelled if the frequency is changed.
- Turn off “MONO” for normal listening.

For Continental Europe

DISPLAY

RDS broadcasting

This unit can display the text data transmitted by the radio data system (RDS) available in some areas.
If the station you are listening to is transmitting RDS signals, “RDS” will light up on the display.

Press [DISPLAY] to display:

→ Station name (PS) → Program Type (PTY) →
Frequency display ←

Program type displays			
NEWS	VARIED	FINANCE	COUNTRY
AFFAIRS	POP M	CHILDREN	NATIONAL
INFO	ROCK M	SOCIAL A	OLDIES
SPORT	M-O-R-M ※	RELIGION	FOLK M
EDUCATE	LIGHT M	PHONE IN	DOCUMENT
DRAMA	CLASSICS	TRAVEL	TEST
CULTURE	OTHER M	LEISURE	ALARM
SCIENCE	WEATHER	JAZZ	

※ M-O-R-M = Middle-of-the-Road music

Note:
RDS displays may not be available if reception is poor.

FM/AM

Memory preset

30 FM and 15 AM stations can be preset.

Preparation

Press [FM/AM] to select “FM” or “AM”.

AUTO PRESET

Automatic presetting

1 **Press [PLAY MODE] repeatedly to select either “CURRENT” or “LOWEST”.**

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

2 **Press and hold [AUTO PRESET] to start presetting.**

The tuner presets all the stations it can receive into the channels in ascending order. When finished, the last station memorised is tuned in.

PROGRAM

Manual presetting

1 **Press [TUNE MODE] to select “MANUAL”.**

2 **Press [|◄◄/◄◄] or [►►/►►|] to tune to the required station.**

3 **Press [PROGRAM].**

4 **Press the numeric buttons to select a channel.**
The station occupying a channel is erased if another station is preset in that channel.

5 **Repeat steps 2 to 4 to preset more stations.**

TUNE MODE

Selecting a preset station

Press the numeric buttons to select the channel.
For channels 10 to 30 press [≧10], then the two digits.

OR

1 **Press [TUNE MODE] to select “PRESET”.**

2 **Press [|◄◄/◄◄] or [►►/►►|] to select the channel.**

For Southeast Asia, Australia and N.Z.

FM/AM

AM allocation setting

By main unit only

This system can also receive AM broadcasts allocated in 10 kHz steps.

To change the step from 9 kHz to 10 kHz.

1 **Press and hold [FM/AM].**
After a few seconds the display changes to a flashing display of the current minimum frequency.

2 **Continue to hold down [FM/AM].**

- When the minimum frequency changes, release the button. To return to the original step, repeat the above steps.
- After the setting is changed, any previously preset frequency will be cleared.

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Using the timer

Setting the clock

This is a 24-hour clock.

1 **Press [CLOCK/TIMER] to select "CLOCK".**
Each time you press the button:

→ **CLOCK** ⟶ PLAY →
Original display ←

2 **(Within 5 seconds or so)**
Press [I◄◄/◄◄] or [►►/►►I] to set the time.

3 **Press [CLOCK/TIMER] again to finish setting the time.**

Displaying the clock
Press [CLOCK/TIMER] to display the clock for few seconds.

Note:
Reset the clock regularly to maintain accuracy.

Using the play timer

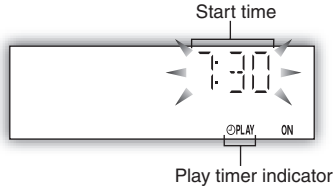
You can set the timer to come on at a certain time to wake you up.

Preparation
Turn the unit on and set the clock.
Prepare the music source you want to listen to; disc, radio, USB or music port source, and set the volume.

1 **Press [CLOCK/TIMER] repeatedly to select the play timer.**

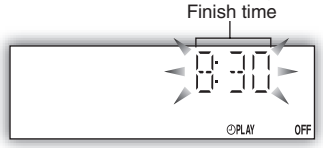
→ CLOCK ⟶ **PLAY** →
Original display ←

2 **(Within 5 seconds or so)**
Press [I◄◄/◄◄] or [►►/►►I] to set the time.



3 **Press [CLOCK/TIMER] to confirm.**

4 **Repeat steps 2 and 3 to set the finishing time.**



To activate the timer

5 **Press [◴ PLAY] to turn on the timer.**

→ **◴ PLAY** ⟶ no display (off) →

6 **Press [⏻] to turn off the unit.**
The unit must be off for the timer to operate.

Change the settings	Repeat steps 1 to 4 and 6. (➡ see above)
Change the source or volume	1) Press [◴ PLAY] to clear the timer indicator from the display. 2) Make changes to the source or volume. 3) Perform steps 5 and 6. (➡ see above)
Check the settings (when the unit is on or in standby mode)	Press [CLOCK/TIMER] repeatedly to select ◴ PLAY.
Cancel	Press [◴ PLAY] to clear the timer indicator from the display.

Note:
- The play timer will start at the preset time, with the volume increasing gradually to the preset level.
- The timer comes on at the set time every day if the timer is on.
- The unit must be in the standby mode for the timer to function.
- If you turn the unit off and on again while a timer is functioning, the finish time setting will not be activated.

Using the sleep timer

This function enables you to turn off the unit automatically after the set time.

Press [SLEEP] repeatedly to select your desired time.

→ 30MIN ⟶ 60MIN ⟶ 90MIN →
OFF ⟵ 120MIN ⟵

Sleep timer indicator

To cancel
Press [SLEEP] to select "OFF".

Changing the remaining time
Press [SLEEP] to show the remaining time, and press [SLEEP] again to select your desired time.

Note:
- The play and sleep timer can be used together.
- The sleep timer always has priority. Be sure not to overlap timer settings.

Using sound effects

Changing the sound quality: Preset EQ

Press [PRESET EQ] repeatedly to select your desired setting.

→ HEAVY ⟶ CLEAR ⟶ SOFT →
FLAT ⟵ VOCAL ⟵

Setting	Effect
HEAVY	Adds punch to rock
CLEAR	Clarifies higher frequencies
SOFT	For background music
VOCAL	Adds gloss to vocal
FLAT	No effect

Changing the sound quality: Bass or Treble

Enable you to enjoy the lower or higher pitch sound.

1 **Press [BASS] or [TREBLE] to select your desired setting.**

2 **Press [I◄◄/◄◄] or [►►/►►I] to adjust the level.**

By main unit only

1 **Press [BASS/TREBLE] repeatedly to select your desired setting.**

→ BASS → TREBLE →
Original display ←

2 **Press [I◄◄/◄◄] or [►►/►►I] to adjust the level.**

Note:
The level of the pitch is between -4 to +4.

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SURROUND

Enhancing the stereo sound: Surround sound

Enable you to add natural width and depth to the stereo sound.

To activate
Press [SURROUND] to display " " indicator.

To cancel
Press [SURROUND] again to clear " " indicator.

Note:
- Surround-sound is less discernible when listening through headphones.
- If interference in FM stereo reception increases, cancel the surround-sound effect.

RE-MASTER

Changing the sound quality: RE-MASTER

MP3

This feature reproduces the frequencies lost during recording to give you a sound closer to the original.

Press [RE-MASTER] repeatedly to select either "ON RE-MASTER" or "OFF RE-MASTER".

USB

MP3

The USB connectivity enables you to connect and play MP3 tracks from USB mass storage class. Typically, USB memory devices. (Bulk only transfer)

Connecting a USB mass storage device

Preparation
Before connecting any USB mass storage device to the unit, ensure that the data stored therein has been backed up.

It is not recommended to use a USB extension cable. The USB device is not recognised by this unit.

USB enabled device (not included)

USB ►/II

Playing a USB mass storage device

1 **Reduce the volume and connect the USB mass storage device to the USB port.**

2 **Press [►/II, USB] or [OK] to start play.**

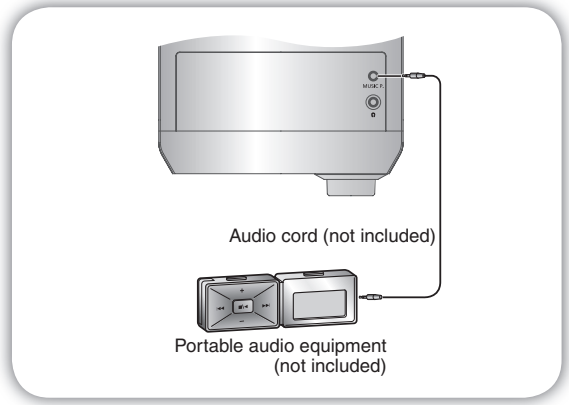
Pause play USB ►/II	Press [►/II, USB]. Press again to resume play.
Stop play ■	Press [■] (stop). "RESUME" is displayed. The position is memorised. Press [►/II, USB] to resume play. Press [■] (stop) again to clear the position.
Skip tracks I◄◄/◄◄ ►►/►►I	Press [I◄◄/◄◄] or [►►/►►I].
Skip album OK ALBUM	Press [▲/▼, ALBUM] in the play mode. Press [▲/▼, ALBUM] once and then the numeric buttons in the stop mode.

Using other optional equipments

Note:
All peripheral components and cables are sold separately.

Connecting to a portable audio equipment

This feature enables you to enjoy music from a portable audio equipment.



MUSIC PORT

Playing a portable audio equipment

Switch off the equaliser function (if there is any) of the portable audio equipment before you plug into the MUSIC P. jack. Otherwise, sound from the speaker may be distorted.

1 **Plug the audio cord into the MUSIC P. jack.**

2 **Press [MUSIC PORT] (main unit: [MUSIC P.]) to select "MUSIC PORT".**

3 **Play the portable audio equipment. (See the portable audio equipment's instruction manual.)**

INPUT LEVEL

Level adjustment

You can select the sound input level of your portable audio equipment.

Press [INPUT LEVEL] to select your desired setting.

HIGH ⟶ NORMAL

Note:
Select "NORMAL" if the sound is distorted when level HIGH is activated.

MUSIC P.

Avoid interfering with other Panasonic equipment

Other Panasonic audio or video equipment may start functioning when you operate the unit using the supplied remote control.

You can operate this unit in another mode by setting the remote control operating mode to "REMOTE 2".

The main unit and remote control must be set to the same mode.

1 **Press and hold [MUSIC P.] on the main unit and [2] on the remote control until the main unit's display shows "REMOTE 2".**

2 **Press and hold [OK] and [2] on the remote control for at least 2 seconds.**

To change the mode back to "REMOTE 1", repeat both steps above by replacing [2] with [1].

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Troubleshooting guide

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

■ Common problems

		Page
No response when remote control buttons are pressed.	• Check that the batteries are installed correctly.	4
Distorted sound or no sound	• Turn the volume up. • The speaker cords may not be connected properly. Turn the unit off, check and correct the connections and turn the unit on. • Check the speaker connections.	— 5 5
A "humming" sound can be heard during play.	• An AC mains lead or fluorescent light is near the unit. Keep other appliances and cords away from the unit.	—

■ Discs

Incorrect display or play will not start.	• You have not inserted the disc correctly; insert it correctly. • Disc may be dirty. Wipe it clean. • Replace the disc if it is scratched, warped, or non-standard. • Condensation has formed: Wait 1 to 2 hours for it to evaporate.	— — — —

■ Radio

A beat sound is heard.	• Turn the television off or move it away from the unit.	—
A low hum is heard during AM broadcast.	• Separate the antenna from other cables and cords.	—

■ USB

The USB drive or its contents cannot be read.	• The USB drive format or its contents is/are not compatible with the system, "NO PLAY" is displayed. Unplug the USB device and insert it again. • The USB host function of this product may not work with some USB devices. • USB devices with storage capacity of more than 8 gigabytes may not work in some instances.	— — —
Slow operation of the USB device.	• Large file size numerous files or high memory USB flash drive takes longer time to read.	—

■ Unit displays

"NO PLAY"	• Check the content. • Only MP3 format files can be played.	— —
"USB OVER CURRENT ERROR"	• The USB mass storage device rating exceeds 500 mA. Disconnect the USB device. Turn the unit off and then back on.	—
"F76"	• There is a power supply problem. Consult the dealer.	—
"ERROR"	• Incorrect operation performed. Read the instructions and try again.	—
"VBR–"	• The unit cannot display the remaining play time for variable bit rate (VBR) tracks.	—
"– –:– –" (during standby mode)	• You plugged the AC mains lead in for the first time or there was a power failure recently. • Set the time.	— 9
"MP3 ERROR" or "PLAYERROR"	• You have played an unsupported format. Check the contents.	4
"UNSUPPORT"	• You have inserted an unsupported device.	—

Maintenance

If the surfaces are dirty

To clean this unit, wipe with a soft, dry cloth.

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

Specifications

AMPLIFIER SECTION

RMS Output Power Stereo Mode
Front Ch (both ch driven)
10 W per channel (4 Ω), 1 kHz, 10% THD
Total RMS Stereo mode power 20 W

For Southeast Asia

PMPO Output power 200 W

FM/AM TUNER, TERMINALS SECTION

Preset memory FM 30 stations
AM 15 stations

Frequency Modulation (FM)
Frequency range 87.50 to 108.00 MHz (50 kHz step)
Antenna terminals 75 Ω (unbalanced)

Amplitude Modulation (AM)
Frequency range

For Continental Europe and Middle Eastern countries 522 to 1629 kHz (9 kHz step)

For Southeast Asia, Australia and N.Z. 522 to 1629 kHz (9 kHz step)
520 to 1630 kHz (10 kHz step)

Music Port (front) jack
Sensitivity 100 mV, 4.7 kΩ
Terminal Stereo, 3.5 mm jack

Headphone jack
Terminal Stereo, 3.5 mm jack

DISC SECTION

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

Pick up
Wavelength 785 nm (CD)
Laser power CLASS 1 (CD)
(For Norge)
Bølgelengde 785 nm
Laserstyrke Ingen farlig stråling sendes ut

Audio output (Disc)
Number of channels 2 (FL, FR)
FL = Front left channel
FR = Front right channel

USB SECTION

USB port
Media file format support MP3 (※.mp3)
USB device file system FAT 12 / FAT 16 / FAT 32
USB port power 500 mA (max)

SPEAKER SECTION

Type 1 way, 1 speaker system (Bass reflex)
Speaker unit(s) Impedance 4 Ω
Full range 10 cm cone type
Input power (IEC) 10 W (Max)
Output sound pressure 83 dB/W (1.0 m)
Frequency range 61 Hz to 17 kHz (-16 dB)
95 Hz to 15 kHz (-10 dB)
Dimensions (W x H x D) 139 mm x 226 mm x 136 mm
Mass 1.3 kg

GENERAL

Power supply
For Continental Europe, Middle Eastern countries Australia and N.Z. AC 220 to 240 V, 50 Hz
For Southeast Asia AC 220 to 240 V, 50/60 Hz
Power consumption 42 W
Dimensions (W x H x D) 153 mm x 226 mm x 300 mm
Mass 2.1 kg
Operating temperature range 0˚C to +40˚C
Operating humidity range 35 % to 80 % RH (no condensation)

Power consumption in standby mode: 0.8 W (approximate)

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

Panasonic Corporation
Web Site: http://panasonic.net
Pursuant to at the directive 2004/108/EC, article 9 (2)
Panasonic Testing Centre
Panasonic Marketing Europe GmbH
Winsbergring 15, 22525 Hamburg, Germany

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