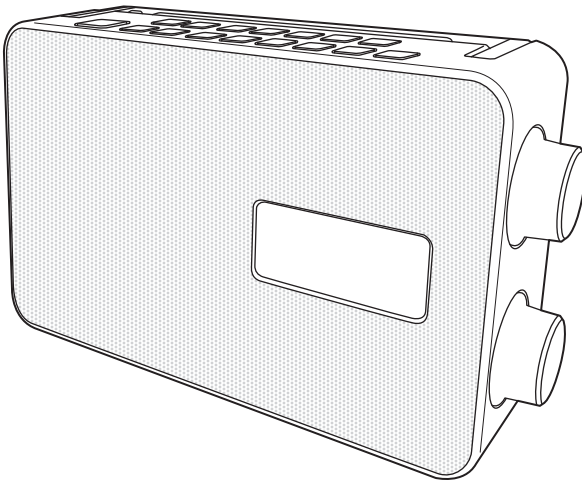


Panasonic®

Operating Instructions

DAB-FM Radio

Model No. RF-D30BT



Thank you for purchasing this product.

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

Model number suffix "EB" denotes UK model.

EG EB GN

TQBJ2225

Safety precautions

WARNING

Unit

- To reduce the risk of fire, electric shock or product damage,
 - Do not let water or other liquids drip or splash inside the unit.
 - Do not expose accessories (battery pack, battery charger, AC adaptor, SD memory card and etc.) to rain, moisture, dripping or splashing.
 - Do not place objects filled with liquids, such as vases, on accessories.
 - Use the recommended accessories.
 - Do not remove covers.
 - Do not repair this unit by yourself. Refer servicing to qualified service personnel.

AC adaptor

- To reduce the risk of fire, electric shock or product damage,
 - Insert the mains plug fully into the socket outlet.
 - Do not pull, bend, or place heavy items on the lead.
 - Do not handle the plug with wet hands.
 - Hold onto the mains plug body when disconnecting the plug.
 - Do not use a damaged mains plug or socket outlet.
- The mains plug is the disconnecting device. Install this unit so that the mains plug can be unplugged from the socket outlet immediately.

CAUTION

Unit

- 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.
- Be careful when adjusting the antenna or in handling the unit, always keep the antenna away from your face to avoid an injury.

Avoid the use in the following conditions

- High or low extreme temperatures during use, storage or transportation.
- Replacement of a battery with an incorrect type.
- Disposal of a battery into fire or a hot oven, or mechanically crushing or cutting of a battery, that can result in an explosion.
- Extremely high temperature and/or extremely low air pressure that can result in an explosion or the leakage of flammable liquid or gas.

Battery

- Do not use rechargeable type batteries.
- Danger of explosion if battery is incorrectly replaced. Replace only with the type recommended by the manufacturer.
- Mishandling of batteries can cause electrolyte leakage and may cause a fire.
 - Remove the batteries if you do not intend to use the unit for a long period of time or if the unit is to be powered exclusively by AC power. Store in a cool, dark place.
 - 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 take apart or short circuit.
 - Do not recharge alkaline or manganese batteries.
 - Do not use batteries if the covering has been peeled off.
- Do not mix old and new batteries.
- Do not use different types of batteries at the same time.
- When disposing of the batteries, please contact your local authorities or dealer and ask for the correct method of disposal.

Disposal of Old Equipment Only for European Union and countries with recycling systems



This symbol on the products, packaging, and/or accompanying documents means that used electrical and electronic products must not be mixed with general household waste.

For proper treatment, recovery and recycling of old products, please take them to applicable collection points in accordance with your national legislation.

By disposing of them correctly, you will help to save valuable resources and prevent any potential negative effects on human health and the environment.

For more information about collection and recycling, please contact your local municipality. Penalties may be applicable for incorrect disposal of this waste, in accordance with national legislation.

About descriptions in these operating instructions

- Pages to be referred to are indicated as "→ ○○".

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

~	AC
—	DC
□	Class II equipment (The construction of the product is double-insulated.)
I	On
⏻	Standby
⚡	Positive polarity
🏠	For indoor use only

Safety information for customers in the EU

Declaration of Conformity (DoC)

Hereby, "Panasonic Corporation" declares that this product is in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EU.

Customers can download a copy of the original DoC to our RE products from our DoC server:

<http://www.ptc.panasonic.eu>

Contact to Authorized Representative:

Panasonic Marketing Europe GmbH, Panasonic Testing Centre, Winsbergring 15, 22525 Hamburg, Germany

Type of wireless	Operating Frequency	Maximum power (dBm EIRP)
Bluetooth®	2402-2480 MHz	4 dBm

Radio Frequency (RF) exposure:

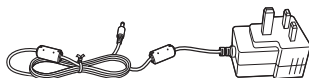
This product complies with RE Directive (Radio Equipment Directive) RF exposure limits while used at least 20 cm away from the human body.

Accessory

Check the supplied accessory before using this unit.

1 AC adaptor

For the United Kingdom and Ireland (TPBAA193)



For Continental Europe (TPBAA192)



For Australia and New Zealand (TPBAA194)



- Product numbers provided in these operating instructions are correct as of April 2020. These may be subject to change.

License

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.

(Important) About the splash proof

■ Splash proof performance*

Specifications for this unit are equivalent of IPX4 of IEC 60529.

About the IPX4 (liquid ingress protection level against splashing water)

This unit retains its functionality after being sprayed with water, provided that the following conditions are met:

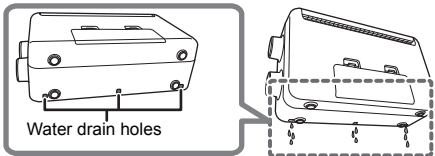
- Room temperature tap water is sprayed.
- Water is sprayed from a distance of approx. 20 cm away from this unit.
- Water is sprayed at all angles with multiple nozzles at a rate of 1.8 litres per minute for 10 minutes.
- Supplied AC adaptor is not splash proof.

* **Splash proof is not guaranteed under all conditions.**

■ Cautions for using around water

For the splash proof performance, read the information on IPX4 (above) and observe the following points. Improper use may result in a malfunction:

- Securely close the terminal cover and battery cover.
- Do not open or close the terminal cover and battery cover with wet hands or when water droplets are on this unit. Doing so may cause malfunction such as terminal rusting with the water droplets.
- Do not connect and use the AC adaptor, USB cable (not supplied) or headphones (not supplied).
- Do not pour soap water or detergent, or immerse in water.
- Remove any hair, lint, sand, dust, etc., that may be attached to the rubber seal on the terminal cover and battery cover before closing.
- Leaving the device with water droplets in a cold region may result to malfunction such as the covers stuck closed.
- The sound may become softer or warped when water is accumulated in the speaker of this unit. Wipe this unit with dry soft cloth.
- Water may accumulate inside the speaker and top of this unit. Tilt the unit towards the water drain holes at the bottom of the unit to drain the water.



- When water enters inside this unit, stop using this unit, and contact the nearest Dealer or Service Center. Malfunction due to exposure to water by improper handling by the customer will not be covered by the warranty. Supplied accessory is not splash proof.

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 the 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. The range can decrease depending on the environment, obstacles or interference.

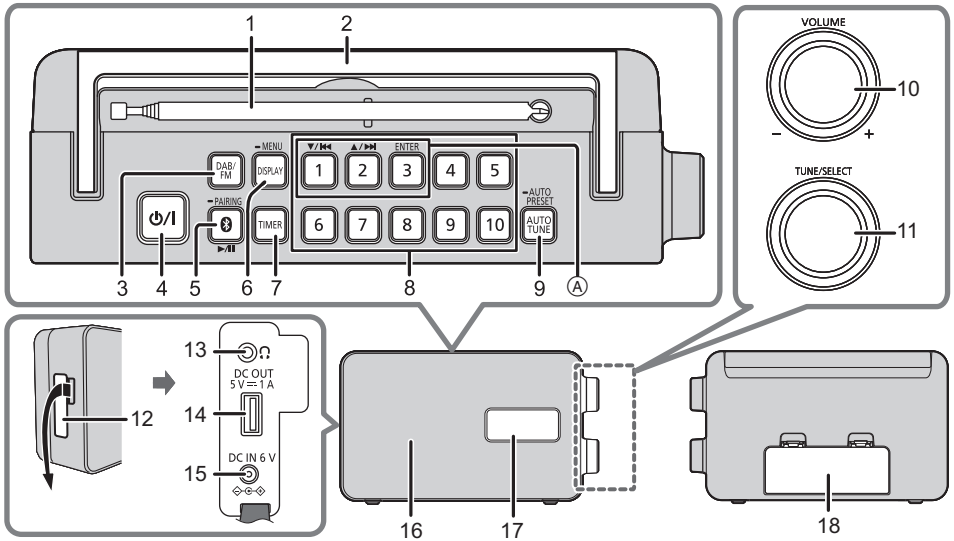
■ Interference from other devices

- 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

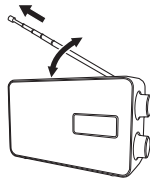
- This system is for normal, general use only.
- Do not use this system near an equipment or in an environment that is sensitive to radio frequency interference (example: airports, hospitals, laboratories, etc).

Control reference guide



1 Antenna (DAB/FM)

Extend the antenna, adjust the length, angle and direction for best reception.



Signal strength indicator



2 Handle

3 Selects "DAB" or "FM" as the audio source

4 Standby/on switch (⏻/⏻)

5 Select Bluetooth® as the audio source

- Press and hold to enter pairing mode (→ 9) or disconnect a Bluetooth® device (→ 9).
- During Bluetooth® source playback, press to pause or resume the playback.

6 Changes the displayed information

- Press and hold to enter menu mode.

7 Enters Timer menu

8 Direct preset buttons for storing or selecting radio station ([1] to [10]) (→ 7, 8).

Ⓐ Navigates the menu

[▼/◀◀], [▲/▶▶]: Selects item/setting

[ENTER]: Confirms item/setting

- During Bluetooth® source playback, press [▼/◀◀] or [▲/▶▶] to skip track.

9 Performs auto tuning for FM stations

- Press and hold to perform auto presetting for FM stations (→ 8).

10 Adjusts the volume (0 (minimum) to 30 (maximum))

11 Selects the frequency for radio source Selects menu item/setting

12 Terminal cover

- This unit is not splash proof when the cover is opened. (→ 4)

13 Headphones jack (📶)

Plug type: ∅ 3.5 mm stereo

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

Listening at full volume for long periods may damage the user's ears.

14 USB port for charging a device (→ 6)

15 DC IN terminal (→ 6)

16 Speaker

The speaker does not have magnetic shielding. Do not place this unit near PCs or other magnetic devices.

17 Display

- At the time of purchase, "Equaliser" (→ 11) is set to "Heavy", so "EQ" is displayed.

18 Battery cover

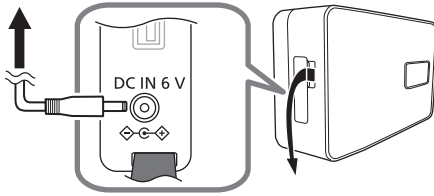
- This unit is not splash proof when the cover is opened. (→ 4)

Power sources

Using the household mains socket

Connect the AC adaptor firmly to the unit and the household mains socket.

To household mains socket



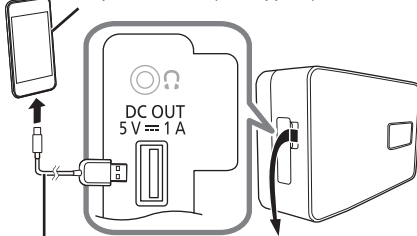
- Do not use any other AC adaptor except the supplied one.
- The unit is in the standby condition when the AC adaptor is connected. The primary circuit is always "live" as long as the AC adaptor is connected to an electrical outlet.

Charging a device

Charging starts when a device (rated value: 5 V/1 A) is connected to the USB port of this unit.

- Confirm from the screen of the connected device, etc. to make sure charging has started.

Compatible device (not supplied)



USB cable (not supplied)

- Charging does not work when this unit is powered by batteries.
- You can charge the device regardless the unit is turned on or in standby mode.
- A cable compatible with your device is required. Use the cable that comes with your device.
- Even if you connect a cable compatible with the USB port of this unit, your device may not be charged. In that case, use the charger that comes with the device.
- Depending on your device, using other chargers may not work. Check the operating instructions of your device before use.
- Do not connect a device with a rated value higher than 5 V/1 A to this unit.
- To check if charging is complete, look at the screen of the connected device, etc.
- Once fully charged, remove the USB cable from the USB port.
- Depending on the type and placement of the device that is connected to the USB port, you may notice a degradation in radio signal reception.

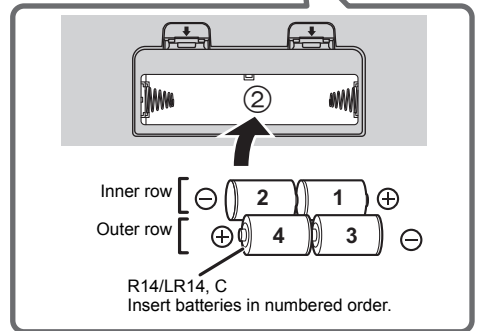
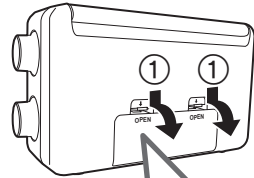
Using the batteries (not supplied)

This unit will use the batteries as the power source when you disconnect the AC adaptor. Use alkaline or manganese batteries.

Disconnect the AC adaptor from the unit to operate on battery power.

Install the batteries so that the poles (+ and -) align with those in the unit.


- After installing the batteries, ensure the battery cover is securely closed.



Battery indicator

The battery indicator on the display shows the battery levels.



- When the battery indicator "  " begins flashing, replace all 4 batteries.
- If the AC adaptor is connected to this unit, the battery indicator will be off.

Unit on/standby

- 1 Extend the antenna. (→ 5)
- 2 Press [⏻/⏪] to turn on the unit.
 - The first time you turn on the unit, it will enter DAB mode and automatically scan for stations. It sets the time and date (if data is available) and starts playing the first station it finds.

Press [⏻/⏪] again to switch the unit to standby mode.



- The unit is not turned off completely even in the standby condition. In the interest of energy conservation, if you will not be using the unit for an extended period of time, we recommend disconnecting the mains plug from the mains socket or removing the batteries. The unit consumes a small amount of power even in the standby condition. (→ 13)
- In standby mode, the time and date are displayed when the unit is powered via the AC adaptor. (→ 10)

Listening to DAB/DAB+

Preparation

- Extend the antenna. (→ 5)
- Turn the unit on.
- Press [DAB/FM] repeatedly to select “DAB”.

Memorising stations

The first time you enter DAB mode, or if the station list is empty, the unit will start the full scan and memorise the stations.

You can perform the full scan procedure when there is a new station or a station becomes available.

Press and hold [– MENU] for at least 2 seconds to select “Full scan” and then press [ENTER] to start full scan.

- To cancel, press [– MENU].

■ Remove unavailable listed stations

This unit indicates those stations that are closed or no longer available with a question mark in front of the station name. You can remove these stations from the station list.


- 1 Press and hold [– MENU] for at least 2 seconds.
- 2 Press [▼/◀◀]* or [▲/▶▶]* to select “Prune” and then press [ENTER].
- 3 Press [▼/◀◀]* or [▲/▶▶]* to select “Yes” and then press [ENTER].
 - To cancel, select “No”.

※ Alternatively, you can turn [TUNE/SELECT] to select menu item/setting.

Listening to the memorised stations

- 1 Turn [TUNE/SELECT] to select a station from the station list.
- 2 Press [ENTER] to tune to the selected station.



- “” indicates a secondary service station. Secondary service stations are always listed next to their primary station in the station list.

Presetting DAB/DAB+ stations

You can preset up to 10 DAB/DAB+ channels.

While listening to the radio broadcast:

Press and hold the direct preset button ([1] to [10]) for at least 2 seconds to enter your desired preset channel number.



- The station occupying a channel is erased if another station is preset in that channel.

Listening to preset DAB/DAB+ stations

Press one of the direct preset buttons ([1] to [10]) to select the preset station.

Manually tuning 1 frequency block

You can manually tune to 1 frequency block. This can be useful when you are adjusting the antenna to achieve the best possible reception and scanning a particular frequency block to update the station list.

- 1 Press and hold [– MENU] for at least 2 seconds.
- 2 Press [▼/◀◀]* or [▲/▶▶]* to select “Manual tune” and then press [ENTER].
- 3 Press [▼/◀◀]* or [▲/▶▶]* to select the frequency block that is receivable in your region and then press [ENTER].

The display shows the received signal strength of the selected frequency block. Adjust the antenna to achieve the best reception.



Threshold indicator

Adjust the antenna so that the received signal strength (solid rectangles) exceeds the threshold indicator.

- ※ Alternatively, you can turn [TUNE/SELECT] to select menu item/setting.

Viewing available information

You can view various information about the DAB/DAB+ broadcast such as dynamic label information (if available), signal strength, program type, ensemble name, frequency, bit rate, DAB variant and date.

Press [DISPLAY] repeatedly to view the available information.

Listening to FM radio

You can preset up to 10 FM channels.

Preparation

- Extend the antenna. (→ 5)
- Turn the unit on.
- Press [DAB/FM] repeatedly to select “FM”.

Presetting stations automatically

Press and hold [– AUTO PRESET] for at least 2 seconds.

- Auto preset begins with the lowest frequency.
- The tuner starts to preset all the stations it can receive into the channels in ascending order.

Listening to preset stations

Press one of the direct preset buttons ([1] to [10]) to select the preset station.

Tuning to a station

Press [AUTO TUNE] to search for a station.

- The unit stops tuning when it finds a station.



- Press [AUTO TUNE] again to search for the next station.
- Turn [TUNE/SELECT] to search for the required station manually.

Presetting stations manually

While listening to the radio broadcast:

Press and hold the direct preset button ([1] to [10]) for at least 2 seconds to enter your desired preset channel number.



- The station occupying a channel is erased if another station is preset in that channel.

Viewing available information

(Except for Australia and New Zealand)

This unit can show the text data transmitted by the Radio Data System available in some areas, such as radio text, programme service, programme type and date.

Press [DISPLAY] repeatedly to view the available information.



- Radio Data System may not be available if reception is poor.

Bluetooth® operations

You can listen to the sound from the Bluetooth® audio device from this unit 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 [].
 - If "Pairing" is indicated on the display, go to step 3.
- 2 Press and hold [– PAIRING] until "Pairing" appears.
 - This unit enters pairing mode.
Alternatively, you can set this unit to pairing mode via this unit's menu.*1
- 3 Select "RF-D30BT" from the Bluetooth® device's Bluetooth® menu.
 - The MAC address (alpha-numerical string that is unique to each unit) may be displayed before "RF-D30BT" is displayed.
 - "Connected" is indicated on the display.
- 4 Start playback on the Bluetooth® device.

※1 To enter pairing mode via this unit's menu

- ① Press and hold [– MENU] for at least 2 seconds.
- ② Press [▼/◀◀]*2 or [▲/▶▶]*2 to select "Pairing" and then press [ENTER].
- ③ Press [▼/◀◀]*2 or [▲/▶▶]*2 to select "Yes" and then press [ENTER].
 - To cancel, select "No".

※2 Alternatively, you can turn [TUNE/SELECT] to select menu item/setting.

■ Connecting a paired Bluetooth® device

- 1 Press [].
 - "Ready" is indicated on the display.
- 2 Select "RF-D30BT" from the Bluetooth® device's Bluetooth® menu.
 - "Connected" is indicated on the display.
- 3 Start playback on the Bluetooth® device.
 - Press [▶/||] to pause or resume the playback.
 - Press [▼/◀◀] or [▲/▶▶] to skip track.



- If prompted for the passkey, input "0000" or "1234".
- You can register up to 8 devices with this unit. If a 9th device is paired, the device that has not been used 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.

Disconnecting a Bluetooth® device

While a Bluetooth® device is connected

Press and hold [– PAIRING] until "Pairing" appears.

- Alternatively, you can disconnect a Bluetooth® device via this unit's menu as follows.
 - ① While a Bluetooth® device is connected: Press and hold [– MENU] for at least 2 seconds.
 - ② Press [▼/◀◀]*3 or [▲/▶▶]*3 to select "Disconnect" and then press [ENTER].
 - ③ Press [▼/◀◀]*3 or [▲/▶▶]*3 to select "Yes" and then press [ENTER].
("Ready" is indicated on the display.)
 - To cancel, select "No".

※3 Alternatively, you can turn [TUNE/SELECT] to select menu item/setting.



- The Bluetooth® device will be disconnected if a different audio source (e.g., "DAB") is selected.

Viewing available information

Press [DISPLAY] to show the date.

Timer settings

- 1 Press [TIMER] to enter Timer menu.
- 2 Press [▼/|◀◀]* or [▲/▶▶]* to select desired item or setting and then press [ENTER].

- To cancel the setting in the middle, press [TIMER].

※ Alternatively, you can turn [TUNE/SELECT] to select menu item/setting.

Kitchen timer

The kitchen timer is a convenient countdown timer. Set the desired duration. You can set up to 120 minutes.

– Off, 1:00 to 120:00

- Set the volume (12 (minimum) to 30 (maximum)). The kitchen timer starts at a low volume and increases gradually to the preset level. (Volume adjustment made using [VOLUME –, +] will not affect the kitchen timer volume.)
- “△” is displayed after you set the timer.
- To cancel, select “Off”.

To stop the sounding kitchen timer

Press any button or turn any knob.

(If you have not stopped it, it will sound for 59 minutes.)



- The countdown is indicated on the display for 10 seconds.
- The kitchen timer works in both unit on and standby modes, regardless the unit is powered via the AC adaptor or by batteries.
- To view the remaining time while the unit is on, select “Kitchen timer” and then press [ENTER]. To view the remaining time in standby mode:
 - Press [DISPLAY] twice (if an alarm is not turned on).
 - If you have turned on the alarm, press [DISPLAY] 3 times to view the remaining time of the kitchen timer.

Sleep

The sleep timer turns off the unit after the set time (in minutes).

– Sleep off, 30 minutes, 60 minutes, 90 minutes, 120 minutes

- “SLEEP” is displayed when the sleep timer is set.
- To cancel, select “Sleep off”.
- To view the remaining time, select “Sleep” and then press [ENTER].

Alarm

The Alarm Wizard is shown.

“☉” is displayed after you set the alarm.

Alarm

Select “On” to turn on the alarm.

– Off, On

On time

Set the hours and minutes of start time.

Snooze

Select “On” to turn on the snooze function. Snooze interval is 5 minutes.

– On, Off

Source

- Set the audio source.

If FM or DAB is set, select the last station you tuned in to (“Last listened”) or a preset station as the audio source.

– Buzzer, DAB, FM

- Set the volume (12 (minimum) to 30 (maximum)) The alarm starts at a low volume and increases gradually to the preset level. (Volume adjustment made using [VOLUME –, +] will not affect the alarm volume.)

To stop the sounding alarm

Press [⏏/I] or press and hold [TIMER] for at least 2 seconds.

“Alarm Off” is displayed.

To snooze the sounding alarm

Press any button (except [⏏/I]) or turn any knob to put the alarm into snooze mode.

- The unit will switch into standby mode and the “☉” indicator blinks slowly.
- Press [⏏/I] to turn on the unit will also stop the snooze mode.



- The alarm does not work when the unit is powered by batteries.
- The alarm works in both unit on and standby modes.
- When you enter the alarm’s “On time” setting, the current alarm time will be displayed. To view the alarm time in standby mode, press [DISPLAY] twice.
- Check that the date and time are set correctly, or else the alarm may not work as desired.
- The alarm will sound at the set time every day for a duration of 59 minutes.
- You need to set the alarm again every time you disconnect and connect the AC power or after you replace the batteries.

Time

The time and date are updated automatically with the DAB/DAB+ broadcast (if available). You can also set the time and date manually with the Time menu.

This is a 24-hour clock.

– Set date: Set the day, month and year.

– Set time: Set the hours and minutes.

- In standby mode:

The time and date are displayed when the unit is powered via the AC adaptor. To view this information when the unit is powered by batteries, press [DISPLAY].

System settings

- 1 Press and hold [– MENU] for at least 2 seconds.
 - 2 Press [▼/|◀◀]* or [▲/▶▶]* to select “System” and then press [ENTER].
 - 3 Press [▼/|◀◀]* or [▲/▶▶]* to select desired item or setting and then press [ENTER].
 - To cancel the setting in the middle, press [– MENU].
 - If there is an asterisk on the right-hand side of the menu item, the display is showing the current setting of the item.
- ※ Alternatively, you can turn [TUNE/SELECT] to select menu item/setting.

Equaliser

- Heavy, Soft, Clear, Vocal, Flat
- “EQ” is displayed when “Heavy”, “Soft”, “Clear” or “Vocal” is set as the equaliser effect.
 - To turn off the equaliser, select “Flat”. (“EQ” will go off.)
 - When you select the equaliser effect, “Clear-Mode dialog” will be set to “Off”.

Clear-Mode Dialog

- On, Off
- When “On” is selected, the equaliser will be set to “Flat”.

Dimmer

You can change the brightness of the backlight of display.

- Off: The backlight is bright.
- Dimmer 1: Dims the backlight.
- Dimmer 2: Dims the backlight further.

Backlight

- On: The backlight is always on.
- 10 sec: The backlight turns off after 10 seconds of inactivity.
- Pressing [DISPLAY] during standby mode will turn on the backlight for about 10 seconds (except in snooze mode).

Language

(Except for Australia and New Zealand)
You can change the language for the display.

- English, Français, Deutsch, Italiano

Auto Power Off

- (Only when “Bluetooth” is selected as the source)
- On: The unit automatically turns off when you do not use it for approximately 20 minutes.
 - Off
 - When connected to a Bluetooth® device, the function does not work.
 - This setting cannot be selected when radio is the source.

Factory Reset

Select “Yes” to reset the unit to factory default setting.
– No, Yes

Troubleshooting

Before requesting service, make the following checks. If you are uncertain about some of the check points, or if the solutions indicated in the following guide does not resolve the issue, then consult your dealer for instructions.

To return all settings to the factory defaults

Select “Factory Reset” in System menu to “Yes”.
(→ above)



- The settings are returned to the factory defaults. It is necessary to set the settings again.

General

Sound is distorted or no sound.

- Adjust the volume.
- If the AC adaptor or fluorescent lights are near the cords, then keep other appliances and cords away from the cables.
- The batteries are weak. Replace them with new ones.

The current date and time are not displayed (during standby)

- Is the unit running on batteries? If so, connect the AC adaptor.

Cannot turn on the unit.

- When using the unit on battery power, batteries are low. Connect the AC adaptor to the unit and check that you can turn the unit on.
- When the unit is powered via the AC adaptor, check the connection of the AC adaptor.

The unit does not work.

- One of the unit’s safety devices may have been activated.
 - ① Press [⏻/|] to switch the unit to standby.
 - If the unit does not turn off, remove the batteries, and disconnect the AC adaptor from the AC mains socket. After about 30 seconds, insert the batteries or reconnect the AC adaptor to the AC mains socket. Then wait for about 10 seconds.
 - ② Press [⏻/|] to switch it on.
- If the unit still cannot be operated, consult the dealer.

Radio

DAB/DAB+ reception is poor.

- Keep the antenna away from computers, televisions, other cables and cords.
- Move the unit to another location and do a full scan again.

Static or noisy reception is heard while listening to a radio broadcast.

- Check and adjust the antenna.
- Try to keep a certain amount of distance between the antenna and AC adaptor.
- Turn the TV or other audio players off or separate it from this unit.
- Keep this unit away from mobile phones if there is interference.
- Noise would be heard when batteries are low. Connect the AC adaptor or replace batteries.

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 unit might be connected to a different device. Disconnect the other device and try connecting the device again.
- Turn the unit off and on and then reconnect.

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 "RF-D30BT" 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.

Messages

The following messages may appear on the unit's display.

"Alarm Not saved"

- The changes made to the alarm settings are incomplete. The changes will be lost.

"Linking"

- This system is trying to connect to the last connected Bluetooth® device when "Bluetooth" is selected.

"No DAB Station"

- No DAB/DAB+ station available.
- Check the antenna.
- Move the unit to another location and do a full scan again.

"Preset Empty"

- There are no preset DAB/DAB+ stations to select. Preset some channels. (→ 7)

"Service not available"

- No DAB/DAB+ reception.

"Time Not saved"

- The changes made to the time settings are incomplete. The changes will be lost.

"USB Overcurrent Remove Device"

- The USB device is using too much power. Disconnect the USB device. Then, disconnect the AC adaptor from the AC mains socket, and then reconnect the AC adaptor to the AC mains socket.
- Check the connection, it may be caused by a faulty cable.

Maintenance

Disconnect the AC adaptor from the outlet before maintenance.

■ Clean this unit with a soft, dry cloth

- When dirt is heavy, wring a wet cloth tightly to wipe the dirt, and then wipe it with a dry cloth.
- Never use alcohol, paint thinner or benzine to clean this unit.
- Before using chemically treated cloth, carefully read the cloth's instructions.

■ To dispose or transfer this unit

The unit may keep the user settings information in the unit. If you discard this unit either by disposal or transfer, then follow the procedure to return all the settings to the factory defaults to delete the user settings.

(→ 11, "To return all settings to the factory defaults")

Specifications

■ GENERAL

Power supply	
AC adaptor	
Input	AC 100 V to 240 V, 50 Hz to 60 Hz, 0.4 A
Output	(For Australia and New Zealand) DC 6.0 V, 2.0 A (For others) DC 6.0 V, 2.0 A, 12.0 W
Main unit	
Power supply input	
DC IN terminal	DC 6 V, 2 A
Battery	DC 6 V (4×R14/LR14)
Power consumption	10 W
Power consumption in standby mode	Approx. 0.3 W

Battery Life
(Operate at 80 mW output with "Backlight" set to "10 sec")

Power source	Manganese R14 battery	Alkaline LR14 battery
Bluetooth®	Approx. 4 H	Approx. 20 H
FM/DAB	Approx. 4 H	Approx. 20 H

Dimensions (W×H×D)
261 mm×154 mm×83 mm

Mass

Without batteries	Approx. 1.1 kg
With batteries	Approx. 1.3 kg

Operating temperature range 0 °C to +40 °C
Operating humidity range 20% to 80% RH (no condensation)

Splash Proof IPX4 or equivalent

■ AMPLIFIER SECTION

Output power

RMS output power

Front Ch	2 W Mono (4 Ω), 1 kHz, 10% THD
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■ TUNER SECTION

Preset Memory FM 10 stations

Frequency Modulation (FM)

Frequency range 87.50 MHz to 108.00 MHz (50 kHz step)

■ DAB SECTION

DAB memories 10 channels

Frequency Band (Wavelength)

Band III	5A to 13F (174.928 MHz to 239.200 MHz)
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Sensitivity *BER 4x10⁻⁴

Min Requirement	-98 dBm
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■ SPEAKER SECTION

Speaker unit

Full Range	10 cm cone type×1
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■ TERMINAL SECTION

Headphones Stereo, 3.5 mm jack

USB Port

USB Port power (for charging only) DC OUT 5 V 1 A

■ Bluetooth® SECTION

Version Bluetooth® Ver.5.0

Class Class 2

Supported Profiles A2DP, AVRCP

Frequency band 2.4 GHz band FH-SS

Operation Distance 10 m Line of sight

Supported Codec SBC

(For the United Kingdom, Ireland, and Continental Europe)

Operating Frequency	2402 MHz to 2480 MHz
Maximum Power (EIRP)	4 dBm



- Specifications are subject to change without notice.
- Mass and dimensions are approximate.
- Total harmonic distortion is measured by a digital spectrum analyzer.
- Battery life may be different depending on the condition of use.

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 132600 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

ACN 001 592 187 ABN 83 001 592 187

1 Innovation Road, Macquarie Park NSW 2113

www.panasonic.com.au

For the United Kingdom and Ireland customers

Sales and Support Information

Customer Communications Centre

- For customers within the UK: 0344 844 3899
- For customers within Ireland: 01 289 8333
- Monday–Friday 9:00 am - 5:00 pm (Excluding public holidays).
- For further support on your product, please visit our website: www.panasonic.co.uk

Direct Sales at Panasonic UK

- Order accessory and consumable items for your product with ease and confidence by phoning our Customer Communications Centre Monday–Friday 9:00 am - 5:00 pm (Excluding public holidays).
- Or go on line through our Internet Accessory ordering application at www.pas-europe.com.
- Most major credit and debit cards accepted.
- All enquiries transactions and distribution facilities are provided directly by Panasonic UK.
- It couldn't be simpler!
- Also available through our Internet is direct shopping for a wide range of finished products. Take a browse on our website for further details.

Safety information for customers in Finland

SUOMI

VAROITUS

Laite

- Tulipalo-, sähköisku- tai tuotteen vahingoittumisvaaran välttämiseksi,
 - Älä anna veden tai muiden nesteiden tippua tai roiskua laitteen sisälle.
 - Älä altista varusteita (akkupakkaus, akkulaturi, vaihtovirtasovitin, SD-muistikortti jne.) sateelle, kosteudelle, tipoilta tai roiskeille.
 - Älä laita varusteiden päälle mitään nesteitä sisältäviä esineitä kuten maljakoita.
 - Käytä ainoastaan suositeltuja varusteita.
 - Älä poista suojuksia.
 - Älä korjaa tätä laitetta itse. Anna huolto ammattitaitoisen henkilöstön tehtäväksi.

Verkkokaapeli

- Pistoketta käytetään virrankatkaisulaitteena. Asenna yksikkö siten, että pistoke voidaan irrottaa nopeasti pistorasistiasta.

Manufactured by:

Panasonic Corporation
Kadoma, Osaka, Japan

Authorized Representative in Europe:

Panasonic Marketing Europe GmbH
Panasonic Testing Centre
Winsbergring 15, 22525 Hamburg, Germany

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

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