



Technics SU-GX70 Network Audio Amplifier Instruction Manual

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Technics®



Basic Operating Instructions Network Audio Amplifier SU-GX70

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SU-GX70 Network Audio Amplifier

Music is borderless and timeless, touching people's hearts across cultures and generations.

Each day the discovery of a truly emotive experience from an unencountered sound awaits. Let us take you on your journey to rediscover music.

Rediscover Music™

Technics

Delivering the Ultimate Emotive Musical Experience to All

At Technics we understand that the listening experience is not purely about technology but the magical and emotional relationship between people and music.

We want people to experience music as it was originally intended and enable them to feel the emotional impact that enthuses and delights them.

Through delivering this experience we want to support the development and enjoyment of the world's many musical cultures. This is our philosophy.

With a combination of our love of music and the vast high- end audio experience of the Technics team, we stand committed to building a brand that provides the ultimate emotive musical experience by music lovers, for music lovers.

Director

Michiko Ogawa



Thank you for purchasing this product.

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

- About descriptions in these operating instructions
 - Pages to be referred to are indicated as “⇒co”.
 - The illustrations shown may differ from your unit.
 - Unless otherwise indicated, operations are described using the remote control.
- Illustrations and figures in this manual are of the silver main body.

A more detailed operating instruction is available in “Operating Instructions” (PDF format). To read it, download it from the website.



<http://www.technics.com/support/downloads/oi/SU-GX70.html>

- You will need Adobe Reader to browse or print “Operating Instructions” (PDF format).

You can download and install a version of Adobe Reader that you can use with your OS from the following website. <https://get.adobe.com/reader/>

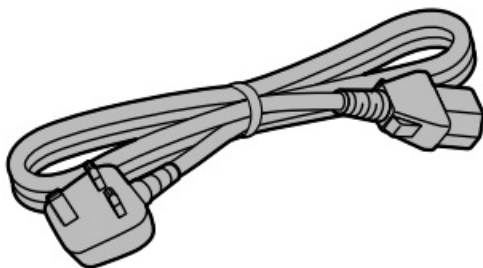
Sales and Support Information

Customer Communications Centre

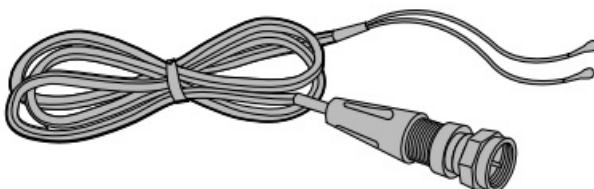
- For customers within the UK: 0333 222 8777
- For customers within Ireland: +353 1 912 4460
- Monday~Friday 9:00 am – 5:00 pm, (Excluding public holidays).
- For further support on your product, please visit our website: www.technics.com/uk/

Accessories

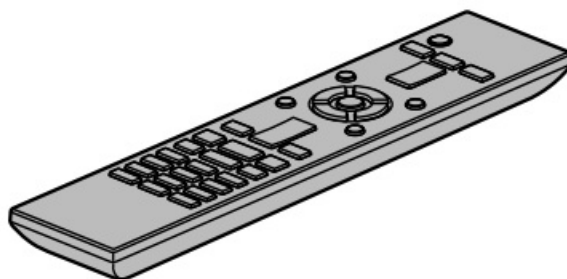
AC mains lead (1)
K2CT3YY00081



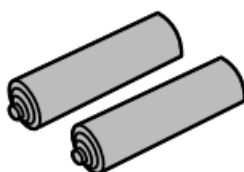
DAB antenna (1)
N1EYYY000015



Remote control (1)
N2QAYA000239



Batteries for remote control (2)



- Product numbers provided in these operating instructions are correct as of February 2023.
- These may be subject to change.

- Do not use AC mains lead with other equipment.

Safety precautions

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 only the recommended accessories.
 - Do not remove covers.
 - Do not repair this unit by yourself. Refer servicing to qualified service personnel.
 - Do not let metal objects fall inside this unit.
 - Do not place heavy items on this unit.

AC mains lead

- To reduce the risk of fire, electric shock or product damage,
 - Ensure that the power supply voltage corresponds to the voltage printed on this unit.
 - 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.
- Ensure the earth pin on the mains plug is securely connected to prevent electrical shock.
 - An apparatus with CLASS I construction shall be connected to a mains socket outlet with a protective earth connection.

Caution

Unit

- Do not place sources of naked flames, such as lighted candles, on this 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.
- This unit is intended for use in moderate and tropical climates.
- Do not put any objects on this unit. This unit becomes hot while it is on.

Placement

- Place this unit on an even surface.
- 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 expose this unit to direct sunlight, high temperatures, high humidity, and excessive vibration. Do not lift or carry this unit by holding the knobs or antenna. Doing so may cause this unit to fall, resulting in personal injury or malfunction of this unit.

Battery

- 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 battery if you do not intend to use the remote control for a long period of time. 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 or different types at the same time.

When disposing of the batteries, please contact your local authorities or dealer and ask for the correct method of disposal.

- Avoid the use in the following condition —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.

Caution for AC Mains Lead

(For the AC mains plug of three pins)

For your safety, please read the following text carefully.

This appliance is supplied with a moulded three pin mains plug for your safety and convenience.

A 3-ampere fuse is fitted in this plug. Should the fuse need to be replaced please ensure that the replacement fuse has a rating of 3-ampere and that it is approved by ASTA or BSI to BS1362.

Check for the ASTA mark  or the  mark A4 on the body of the fuse.

If the plug contains a removable fuse cover you must ensure that it is refitted when the fuse is replaced.

If you lose the fuse cover the plug must not be used until a replacement cover is obtained. A replacement fuse cover can be purchased from your local dealer.

Before use

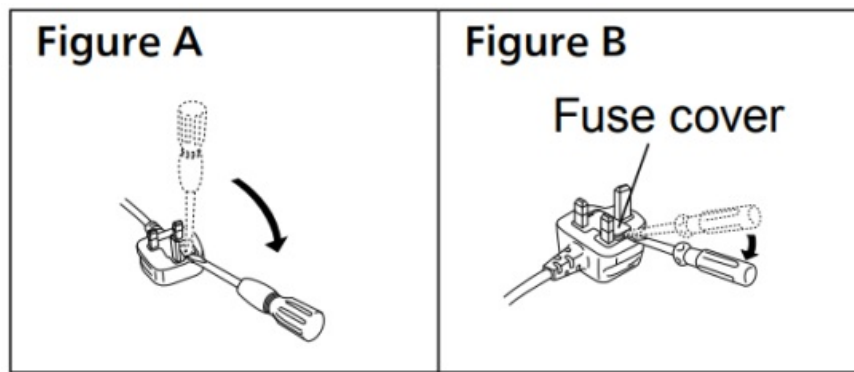
Remove the connector cover.

How to replace the fuse

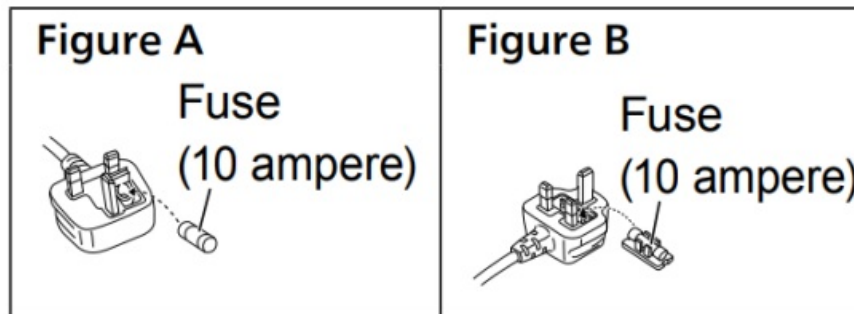
The location of the fuse differs according to the type of AC mains plug (figures A and B).

Confirm the AC mains plug is fitted and follow the instructions below. Illustrations may differ from actual AC mains plug.

1. Open the fuse cover with a screwdriver.



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



Disposal of Old Equipment and Batteries

Only for European Union and countries with recycling systems



These symbols on the products, packaging, and/or accompanying documents mean that used electrical and electronic products and batteries must 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.

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 authority.

Penalties may be applicable for incorrect disposal of this waste, in accordance with national legislation.

Note for the battery symbol (bottom symbol):



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.

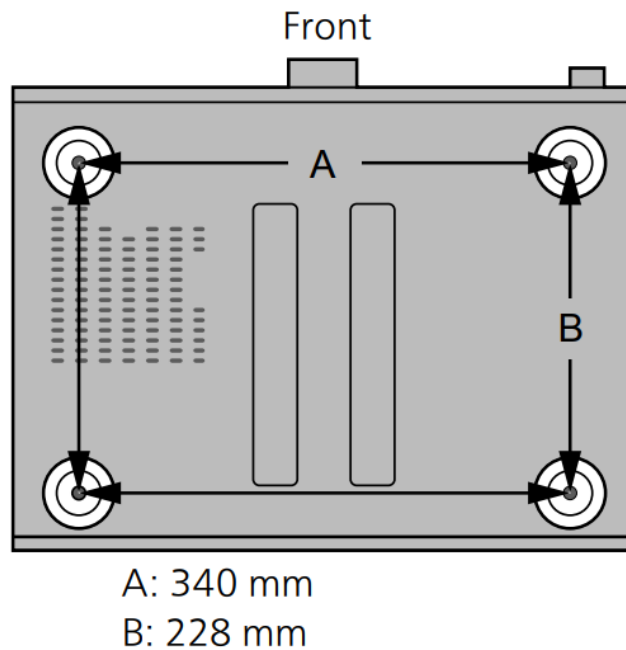
Panasonic Corporation, a company having its registered office of 1006, Oaza Kadoma, Kadoma City, Osaka 571-8501, Japan, automatically collects personal data such as IP address and/or Device ID from your device as soon as you connect it to the Internet. We do this to protect our customers and the integrity of our Service as well as to protect the rights or property of Panasonic.

You have a right of access, rectification and objection to in certain circumstances, a right of erasure, restriction of processing, data portability and a right to object to other forms of processing. If you wish to exercise any of the above rights and/or wish to know more about the processing of your personal data in this context, please refer to the full text of our privacy policy displayed at the support page of your device, <http://panasonic.jp/support/global/cs/audio/>, <http://www.technics.com/support/> or contact our customer communications/support number or address described in the Pan European Guarantee included in your device box to send you the full text of our privacy policy.

Installation

- Turn this unit off, fold the antenna and disconnect all the equipment before moving this unit. Be sure to raise this unit when moving, and do not drag this unit.
- Confirm the installation location can sustain the weight of this unit. (= 21)
- For the dimensions of this unit (= 21)

- Refer to the following figure for the dimensions of this unit's legs.



Unit care

Pull out the AC mains lead from the socket before maintenance. Clean this unit with a soft cloth.

- When dirt is heavy, wring a wet cloth tightly to wipe the dirt, and then wipe it with a soft cloth.
- Do not use solvents including benzine, thinner, alcohol, kitchen detergent, chemical wiper, etc.
- Doing so may cause the exterior case to be deformed or the coating to come off.

Using “Technics Audio Center”

- If you install the dedicated app “Technics Audio Center” (free of charge) on your tablet/ smartphone, you can stream music files from the device on your network to this unit and configure the settings of sound quality, etc.
For details, visit: www.technics.com/support/
- This application is subject to change or be discontinued with notice.

Firmware updates

Occasionally, Panasonic may release updated firmware for this unit that may add or improve the way a feature operates. These updates are available free of charge.

For the update information, refer to the following website. www.technics.com/support/firmware/

To restore all the settings to the factory defaults

1. Press [SETUP].
2. Press [▲], [▼] repeatedly to select “Initialization” and then press [OK].
3. Press [▲], [▼] to select “Yes” and then press [OK].

A confirmation screen appears. Select “Yes” in the following steps to restore all the settings to defaults.

4. Press [▲], [▼] to select “Yes” and then press [OK] again.

To dispose of or transfer this unit

- Before disposing of or transferring this unit, be sure to erase all the recorded information by restoring the settings to factory default (above).
- Before you dispose of or transfer this unit to a third party, be sure to log out of your music streaming services accounts to prevent unauthorised use of your accounts.

Network services

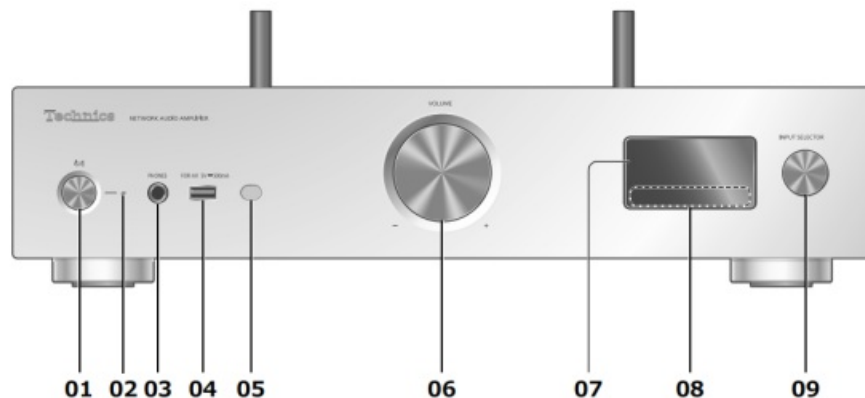
The services provided by their respective service providers may be changed or discontinued without notice. Panasonic bears no responsibility for change or discontinuance of their services.

Not all music streaming services are available in all countries/regions. Registration/ subscription may be required, or fees may be charged to use music streaming services.

Services are subject to change or be discontinued. For details, visit an individual music streaming service's website.

Control reference guide

This unit (front)



1. [(H/1) Standby/on button]
 - « 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. Power indicator
 - Blue: The unit is on.
 - Off: The unit is off.
 - Red: The unit is in standby mode.
3. Headphones jack
 - When a plug is connected, the speakers and PRE OUT terminals do not output sound.
 - Excessive sound pressure from earphones and headphones can cause hearing loss.
 - Listening at full volume for long periods may damage the user's ears.
4. USB-A terminal (USB-A) (For AV) (5 V=500 mA)
 - You can connect a USB device to the unit and play back music stored on the USB device.
 - » You can connect the USB flash memory with new firmware and update the firmware for this unit. For details, refer to the following website. www.technics.com/support/firmware/
5. Remote control signal sensor
 - Reception distance:
 - Within approx. 7 m directly in front Reception angle: Approx. 30° left and right
6. Volume knob

dB (min), -99.0 dB to 0 dB (max)

7. Display

– Input source, playback status, etc. are displayed.

8. Touch switches

* [◀◀], [▶▶], [■], [▶/||].

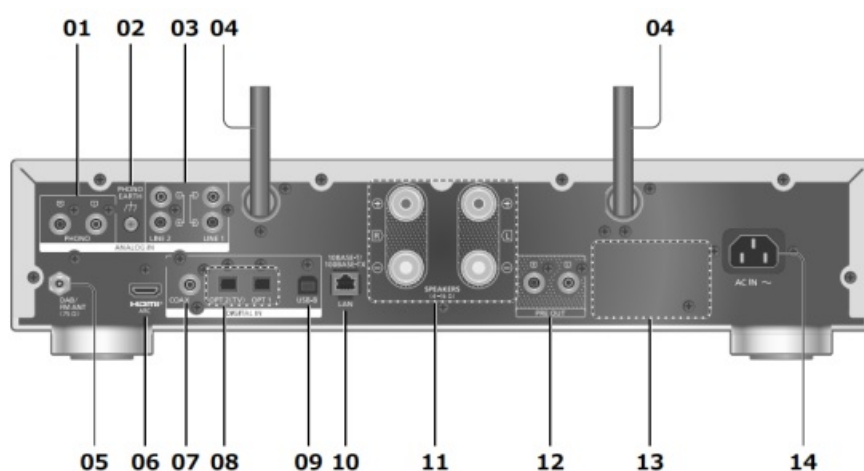
Playback operation buttons

« Each time you press the switch, a beep sound will be heard. (You can turn the beep sound on/off by setting “Beep” from the setup menu.)

9. Input selector knob

« Turn this knob clockwise or anticlockwise to switch the input source.

This unit (rear)



1. Analogue audio input terminals (PHONO)

You can connect the turntable with PHONO cable (not supplied) to this unit and play back music.

Please use the cable less than 3 m.

2. PHONO EARTH terminal

« For connecting the ground wire of a turntable.

3. Analogue audio input terminals (LINE1/LINE2)

You can connect an analogue audio output device with analogue audio cable (not supplied) to this unit and play back music.

4. Wireless LAN antenna (⇒ 15)

5. DAB ANT / FM ANT terminal (=11,18)

6. HDMI terminal

You can connect the HDMI equipment with ARC function (TV, etc.) with HDMI cable (not supplied) to this unit and play back music. (⇒ 11)

« Please use Premium High Speed HDMI cable.

7. Coaxial digital input terminals (COAX) You can connect a digital audio output device such as D/A converter, etc. with coaxial digital cable (not supplied) and play back music.

« The detailed operating instruction for MQA function is available in “Operating Instructions” (PDF format).

8. Optical digital input terminal (OPT1/OPT2)

You can connect a digital audio output device, etc. with optical digital audio cable (not supplied) and play back

music.

» When connecting the HDMI equipment without ARC function, connect the equipment with optical digital audio cable (not supplied) to the optical digital input terminal (OPT2) of this unit. (⇒ 11)

9. USB-B terminal (USB-B) You can connect the PC, etc. or another device with USB 2.0 cable (not supplied) to this unit and play back music.

10. LAN terminal (⇒ 14)

11. Speaker output terminals (⇒ 13)

12. Analogue audio output terminals (PRE OUT) You can connect the power amplifier, subwoofer, etc. with analogue audio cable (not supplied) to output the analogue audio signals.

Sound is not output from PRE OUT terminals when “PRE OUT” is set to “Off”.

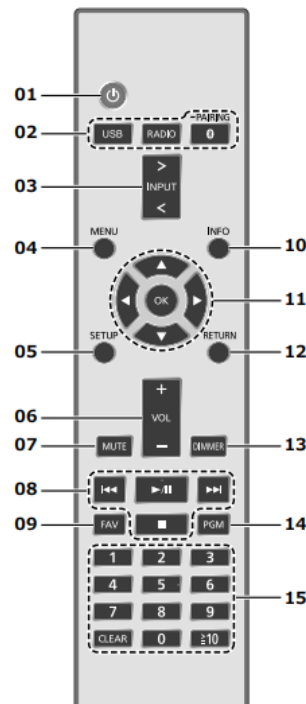
(The factory default is “Off”)

13. Product identification marking

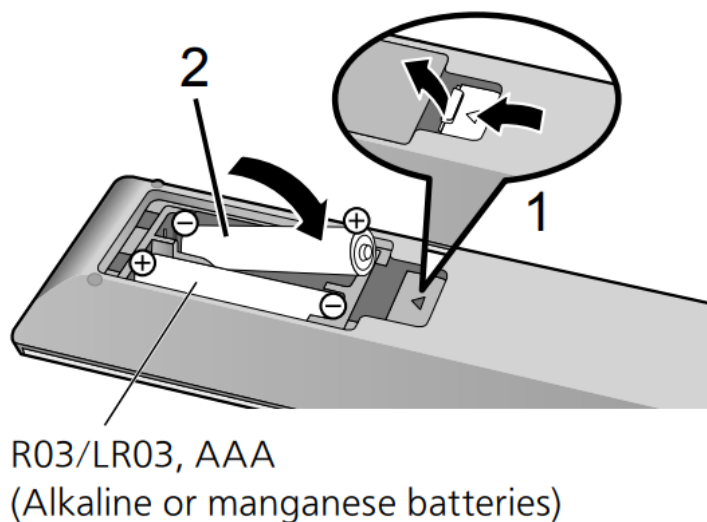
« The model number is indicated.

14. ACIN terminal (~) (⇒ 13)

Remote control





Using the remote control



Note

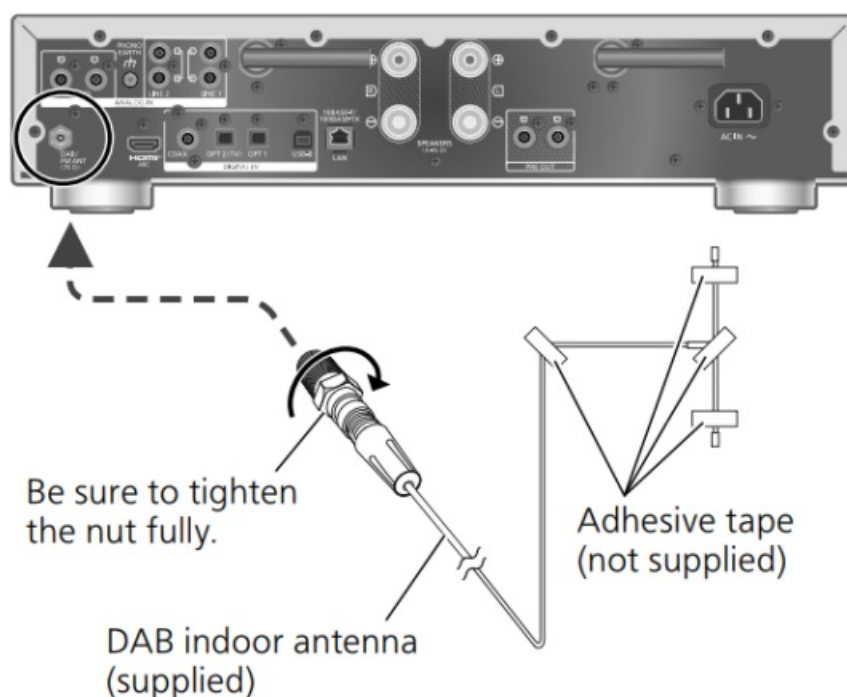
- Insert the battery so the terminals \oplus and \ominus match those in the remote control.
- Point it at the remote control signal sensor on this unit. (⇒ 08)
- Keep the batteries out of reach of children to prevent swallowing.

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. [USB]/[RADIO]/[ -PAIRING]: Select the device to be operated (= 18, 19)
3. [>INPUT<]: Switch the input source
4. [MENU]: Enter menu
5. [SETUP]: Enter setup menu
6. [+VOL] just the volume
= —dB (min), -99.0 dB to 0 dB (max)
7. [MUTE]: Mute the sound
Press [MUTE] again to cancel. “MUTE” is also cancelled when you adjust the volume or when you turn the unit to standby.
8. Playback operation buttons
9. [FAV]: Select the favourite radio station or playlist (DAB/DAB+/ FM / USB-A / DMP / Internet Radio / Spotify / TIDAL / Deezer / Qobuz, etc.)
« You can register up to 9 favourite stations.
To register, press and hold [FAV] while the favourite station or playlist is played back, select the number to register and then press [OK].
10. [INFO]: View content information
« Press this button to display the track, artist, and album names, file type, sampling frequency, MQA® content type and other information.
(The information varies depending on the input source.)
11. [▲], [▼], [◀], [▶]: Selection/OK

12. [RETURN]: Return to the previous display
13. [DIMMER]: Adjust the brightness of the display, etc.
- » When the display is turned off, it will light up for a few seconds only when you operate this unit.
- Before the display turns off, "Display Off" will be displayed for a few seconds.
- « Press repeatedly to switch the brightness.
 - » You can turn off the power indicator in addition to adjusting the brightness of this unit 4 steps by pressing [DIMMER] when "DIMMER Steps" is set to "5 (including Blackout)" from the setup menu.
14. [PGM]: Memorise the preset radio channel
15. Numeric buttons, etc.
- To select a 2-digit number Example:
- [210]> [1]>[6] – To select a 4-digit number Example: 1234: [210] > [210] > [210] > [1]> [2] > [3] > [4] [CLEAR]:
- Clear the entered value.

Connections

Antenna connection

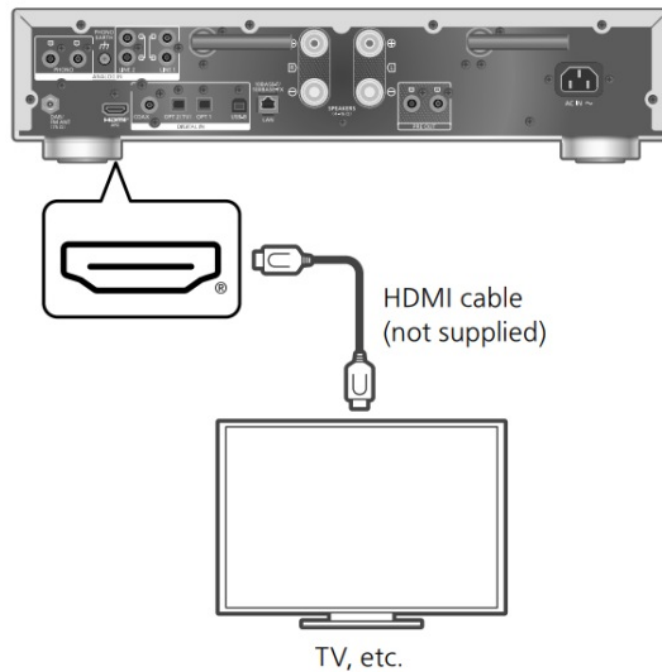


- This unit can receive DAB+ and FM stations with the DAB antenna.
- Tape the antenna to a wall or column at the position with the least amount of interference.
- If radio reception is poor, use a DAB outdoor antenna (not supplied).

Note

- The interference may occur if any electronic devices are nearby.

Connecting HDMI equipment with ARC function (TV, etc.)

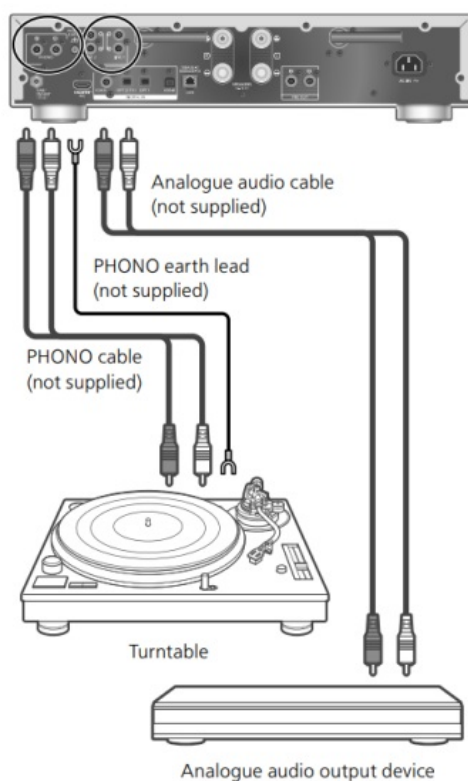


- Use Premium High Speed HDMI cables when connecting to peripheral devices.
- Connect this unit to the HDMI input terminal which has ARC (Audio Return Channel) function. .
- Set the audio output from TV speakers to Off. For details, refer to the operating instructions of the TV.

Note

- Linear PCM signal is only available for ARC function.
- Do not input the signals other than linear PCM signal, otherwise it may cause noise or damage the connected speakers.
- For the equipment does not support ARC function, connect the equipment with HDMI cable (not supplied) and optical digital audio cable (not supplied) to the optical digital input terminal (OPT2) of this unit.
- To provide the higher quality sound, select “On (Custom)” of “Pure Amplification” from the setup menu and set “Network/USB-A/ Bluetooth” to “Disabled” to disable the network functions. (= 12)
- The volume may be lower depending on the connected TV.

Analogue audio output device connection



- When connecting a turntable with a built-in PHONO equalizer, turn the equalizer of turntable off or connect the PHONO cable to the analogue audio input terminals (LINE1/ LINE2) of this unit.
- When connecting a turntable with a PHONO earth lead, connect the PHONO earth lead to the PHONO EARTH terminal of this unit.

Pure Amplification

By disabling the network functions, HDMI, etc. this unit provides the higher quality sound.

- The features such as network, HDMI, etc. are disabled when “Pure Amplification” is set to “on”.

1 Press [SETUP].

2 Press[▲], [▼] repeatedly to select “Pure Amplification” and then press [OK].

3 Press[▲], [▼] to select an item and then press [OK].

On:

All the features using network function and HDMI are disabled.

On (Custom):

To disable the network function only, set “Network/USB-A/Bluetooth” to “Disabled”.

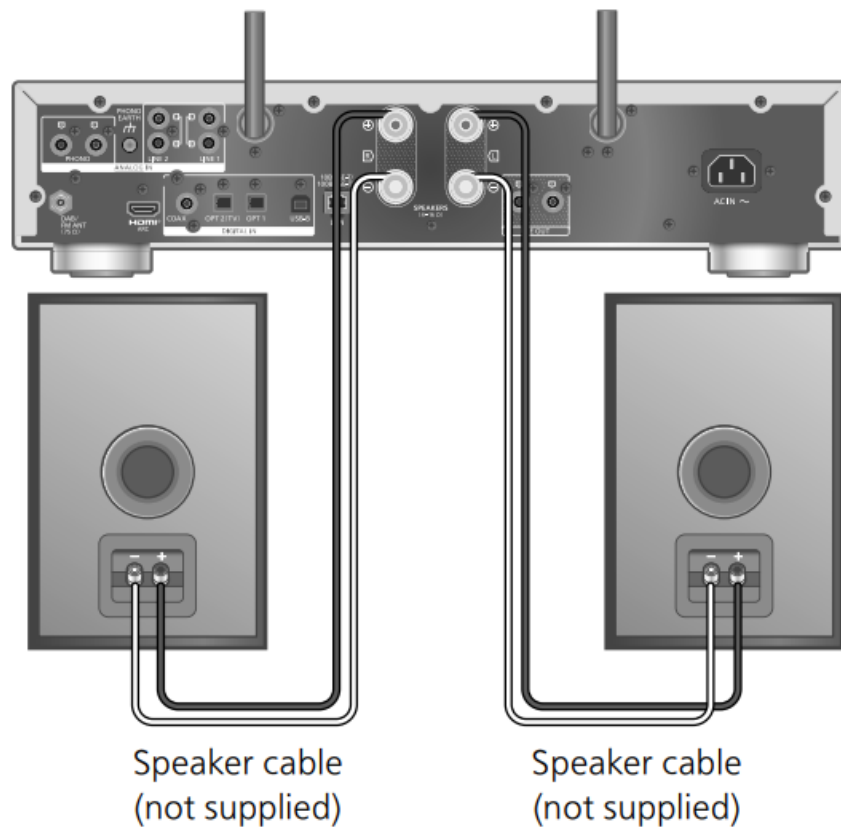
Set “HDMI” to “Disabled” to disable the HDMI function (HDMI ARC) only.

Note

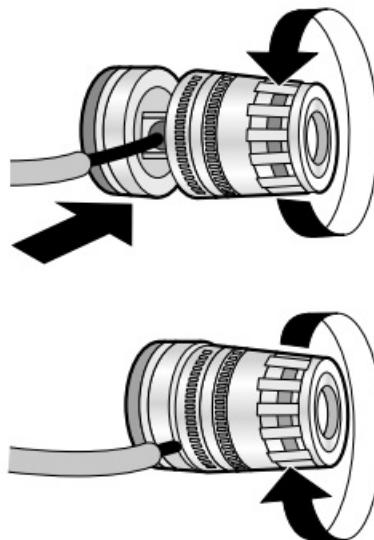
While this unit is in “Pure Amplification” mode and the network functions, HDMI, etc. are disabled, playback of the online music streaming services, music files from network devices, etc. will not be available. Also, this unit is not displayed as the output speaker on the application such as “Technics Audio Center”.

- The display is turned off by dimmer function while this unit is in “Pure Amplification” mode. Press [DIMMER] repeatedly to switch the brightness. (= 10)

Speaker connection



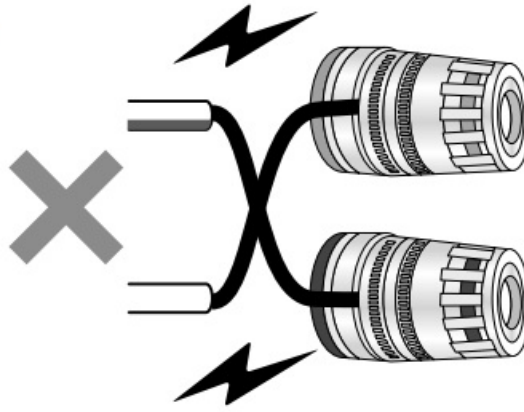
1. Turn the knobs to loosen them, and insert the core wires into the holes.
2. Tighten the knobs.



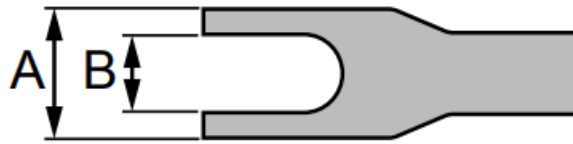
Note

- When the connections are completed, pull the speaker cables lightly to check that they are connected firmly.
- Be careful not to cross (short-circuit) or reverse the polarity of the speaker wires as doing so may damage the amplifier.

DO NOT



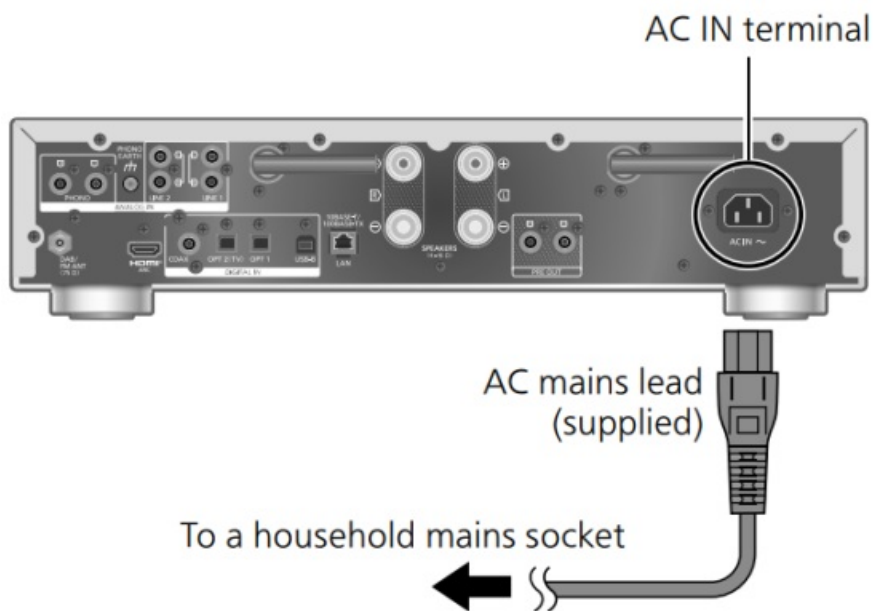
- Wire the polarity (+/-) of the terminals correctly. Not doing so may adversely affect stereo effects or cause malfunction.
- Though the spade plug (A: 16 mm or less, B: 8 mm or more) can be connected, some plug may not be connected depending on the shape of plug.



- For details, refer to the operating instructions of the speakers.

AC mains lead connection

Connect only after all other connections are completed.



- Use only the supplied AC mains lead.
- Do not connect the AC mains lead until all other connections are complete.
- Insert the plugs of the cables to be connected all the way in.
- Do not bend cables at sharp angles.
- Wireless LAN (Wi-Fi®) setting may start when this unit is turned on. If you stop the Wi-Fi setting, select “No” in “Wi-Fi Setup” screen. Select “Yes” to keep the Wi-Fi setting. (= 15)

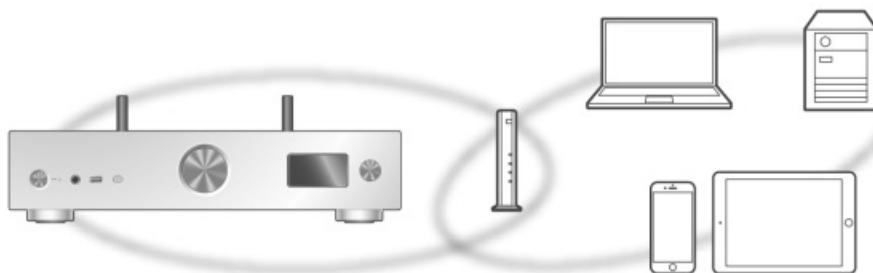
Note

- This unit consumes a small amount of AC power (= 21) even when the unit is in standby mode. Remove the

plug from the main electrical outlet if you will not be using the unit for an extended period of time. Place the unit so the plug can be easily removed.

Network settings

You can stream online music services or music files from your smartphone/tablet to this unit. To use these features, this system must join the same internet-connected network as the compatible device.



This unit can be connected to a router using a LAN cable or built-in Wi-Fi®.

For a stable connection to the network, a wired LAN connection is recommended.

Note

- If you try to change the network settings immediately after turning on this unit, it may take some time until the network setup screen is displayed.
- If “Firmware update is available” is displayed after the network connection is set up, the firmware for this unit is available.
- For the update information, refer to the following website. www.technics.com/support/firmware/
- To provide the higher quality sound, select “On (Custom)” of “Pure Amplification” from the setup menu and set “HDMI” to “Disabled” to disable the network functions. (= 12)

Preparation

If you install the “Technics Audio Center” app on your smartphone/tablet, you can set up a connection using the application.

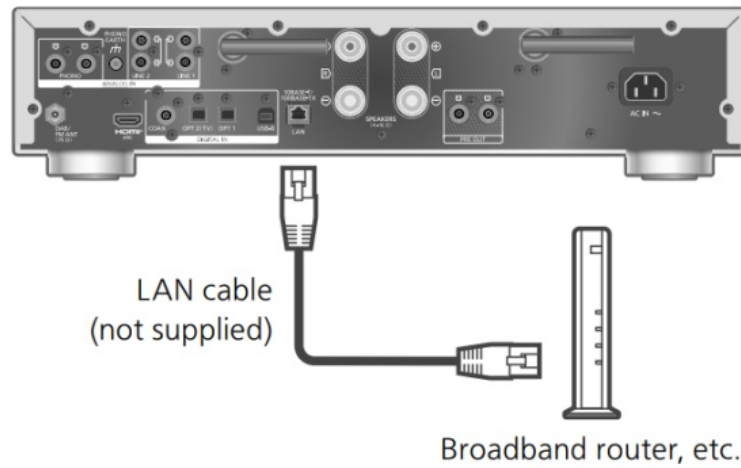
- When using Google Cast™-enabled apps to play music on this unit, set up a connection using the “Technics Audio Center” app.
- When using AirPlay to play music on this unit, add the product to Home in the Apple Home app. Adding this unit to the network via Apple Home app will also allow the user to stream audio using Siri.
- Make sure that the Wi-Fi function and Bluetooth® function are activated on your smartphones/tablet.

1. Install the “Technics Audio Center” app on your Technics smartphone/tablet. (⇒ 07)
2. Connect your smartphone/tablet to the same network as this unit before setting.



* Make sure that the network is connected to the Internet.

Wired LAN connection



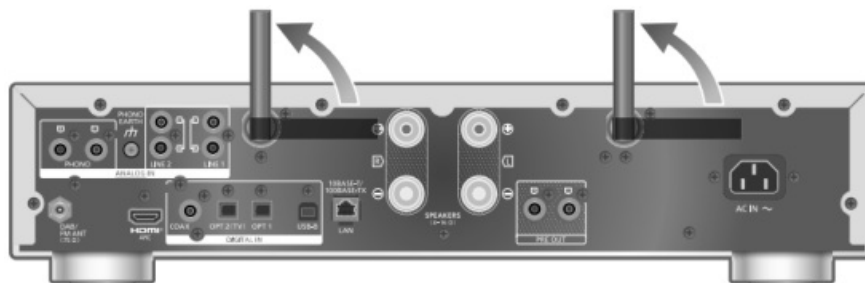
1. Disconnect the AC mains lead.
2. Connect this unit to a broadband router, etc. using a LAN cable.
3. Connect the AC mains lead to this unit. (⇒ 13)
4. Press [(O)] to turn this unit on. * When the connection is established, " " is displayed.
5. Press [>INPUT<] to select "Google Cast".
6. Open the "Technics Audio Center" app and follow the on-screen instructions to set up a connection.

Note

- While the AC mains lead is disconnected, the LAN cable must be connected or disconnected.
- Use category 7 or above straight LAN cables (STP) when connecting to peripheral devices.
- Inserting any cable other than a LAN cable in the LAN port can damage the unit.
- When a LAN cable is connected, the Wi-Fi function may be disabled.

Wireless LAN connection Preparation

- Disconnect the AC mains lead.
- Disconnect the LAN cable.
- Place this unit as close to the wireless router as possible.
- Point up the antenna on the rear of this unit as shown in the figure.



- Connect the AC mains lead to this unit. (= 13)

Note

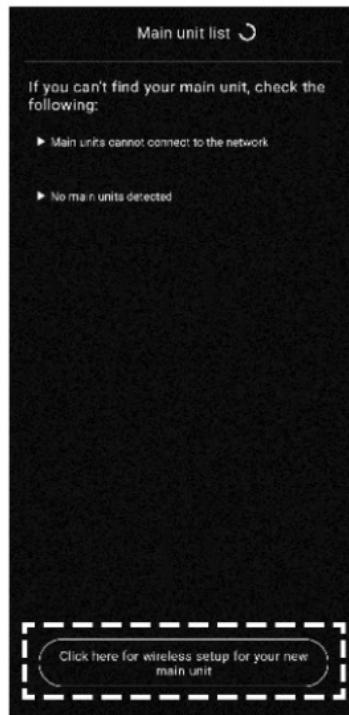
- The setting will be cancelled after the set time limit. In that case, try the setting again.
- To cancel this setting in the middle, press [■] or turn the unit to standby mode.

- When the connection is established, “ ” is displayed.

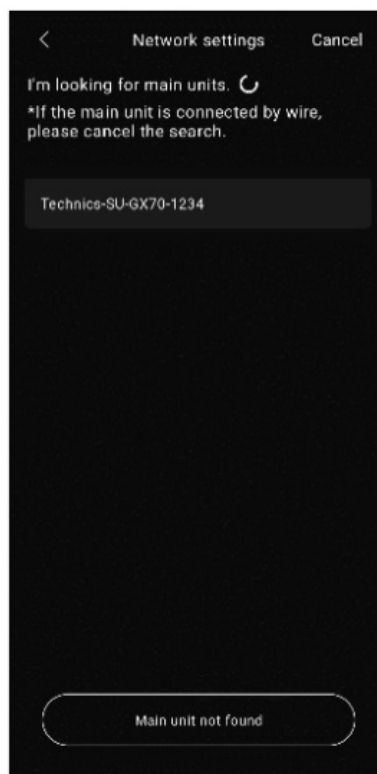
Wireless setup for the first time using app

Press [] to turn this unit on.

1. Wi-Fi Setup” is displayed.
2. Press [A], [v] to select “Yes” and then press [OK].
“Setting” is displayed.
3. Open the “Technics Audio Center” app.
4. Select “Click here for wireless setup for your new main unit”.



5. Select this unit and follow the on- screen instructions to set the network.



Note

- This unit will be displayed as “Technics-SU- GX70-##+%” if the device name is not set. (“##x%” stands for characters unique to each set.)
- You can check your network information (SSID, MAC address and IP address) from the Technics Audio Center” app.
- When this unit is switched to standby mode and turned on before the Wi-Fi setting is complete, “Wi-Fi Setup” is displayed. Complete the Wi-Fi setting or set “Wi-Fi Menu” to “Off” to turn off the display.

Setting the network from the setup menu (When not using apps with this unit)

- To stream music files with this unit using Google Cast-enabled apps (→ 17), set up the network setting using “Technics Audio Center” app. (→ 16)

Using the WPS button “WPS”

If your wireless router supports WPS, you can set up a connection by pressing the WPS button.

- A compatible wireless router may have the WPS identifier mark.
- Complete the settings within 2 minutes while “WPS” is displayed.
- When “Wi-Fi Setup” is displayed when turning on this unit, press [■] to cancel the network setting and start the setting again.

1. Press [SETUP].
2. Press [▲], [▼] repeatedly to select “Network” and then press [OK].
When “Wi-Fi Menu” screen is displayed, press [OK].
3. Press [▲], [▼] to select “On” and then press [OK]. (The wireless LAN function is enabled.)
4. Press [▲], [▼] to select “WPS Push” and then press [OK]. “WPS” blinks. Complete step 5 within 2 minutes.
5. After “WPS” is displayed, press the WPS button on the wireless router.

Example:



Linking” blinks.

When the connection is established,

Success” is displayed.

Fail” may be displayed if the connection was not complete. Try this method again from the setup menu. If “Fa still displayed, try other methods.

6. Press [OK] to exit the setting.

Using the WPS PIN code “WPS PIN”

If your wireless router supports WPS, you can set up a connection by entering the WPS PIN code.

- For details on how to enter the PIN code, refer to the operating instructions of the wireless router.
- Complete the settings within 2 minutes while “WPS PIN” and the PIN code are displayed.
- When “Wi-Fi Setup” is displayed when turning on this unit, press [■] to cancel the network setting and start the setting again.

1 Press [SETUP].

2 Press [▲], [▼] repeatedly to select “Network” and then press [OK].

When “Wi-Fi Menu” screen is displayed, press [OK].

3 Press [▲], [▼] to select “On” and then press [OK]. (The wireless LAN function is enabled.)

4 Press [▲], [▼] to select “WPS PIN” and then press [OK].

= The PIN code is displayed. Complete step 5 within 2 minutes.

5 Enter the PIN code into the wireless router from PC, etc.

Linking” blinks.

When the connection is established, “Success” is displayed.

Fail” may be displayed if the connection was not complete. Try this method again from the setup menu. If “Fail” is still displayed, try other methods.

6 Press [OK] to exit the setting.

Note

- Depending on a router, other connected devices may temporarily lose their connection.
- For details, refer to the operating instructions of the wireless router.

When resetting the wireless setup

1. Press [>INPUT<] to select “Google Cast”.

2. Press [SETUP].

3. Press[▲], [▼] repeatedly to select “Network” and then press [OK].

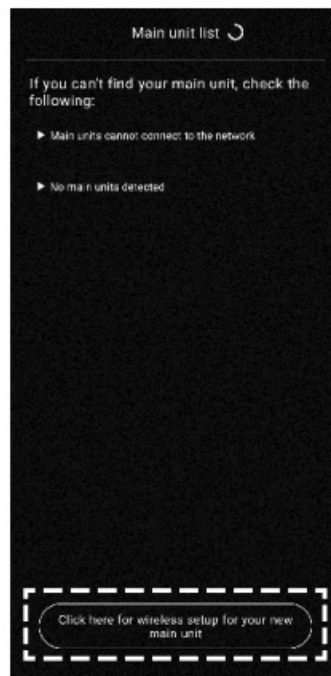
When “Wi-Fi Menu” screen is displayed, press [OK].

4. Press [▲], [▼] to select “On” and then press [OK]. (The wireless LAN function is enabled.)

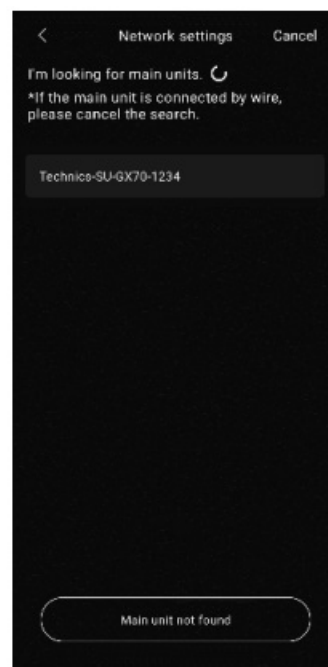
5. Press [▲], [▼] to select “Wi-Fi Setup” and then press [OK]. – “Setting” is displayed.

6. Open the “Technics Audio Center” app.

7. Select “Click here for wireless setup for your new main unit”.



8. Select this unit and follow the on- screen instructions to set the network.



Note

- This unit will be displayed as “Technics-SU- GX70- *#x+” if the device name is not set. (“##x%” stands for characters unique to each set.)
- You can check your network information (SSID, MAC address and IP address) from the “Technics Audio Center” app.

Streaming music over the network

This unit is compatible with Google Cast-enabled apps. For detailed information of Google Cast- enabled apps, visit: g.co/cast/apps

You can also stream music files from the device on your network to this unit by using the “Technics Audio Center” app. Download and install the app from the website below. www.technics.com/support/
And, you can also stream music over AirPlay.

Preparation

- Complete the network settings. (⇒ 14) (Make sure that the network is connected to the Internet.)
- Install the supported application on your device.
- Connect the device to the network currently used at home.
 - 1 Open a Google Cast-enabled app, AirPlay-enabled app or “Technics Audio Center” app on your device (smartphone, tablet, etc.), and select this unit as the output speaker.
 - 2 Play back the music.

Note

- You cannot use Google Cast app with this unit when the network setting is set up by “WPS PIN” or “WPS Push”. To stream music files with this unit using Google Cast-enabled apps (⇒ 17), set up the network setting using “Technics Audio Center” app. (= 16) Not all music streaming services are available in all countries/regions. Registration/ subscription may be required, or fees may be charged to use music streaming services. Services are subject to change or be discontinued. For details, visit an individual music streaming service’s website. Important notice: Before you dispose of or transfer this unit to a third party, be sure to log out of your music streaming services accounts to prevent unauthorised use of your accounts.

Playback

Playing back music files on the media server

You can share music files stored in the media server (PC, Network Attached Storage, etc.) connected to your home network, and enjoy the contents with this unit.

1. Press [>INPUT<] repeatedly to select “DMP”.
 You can also select the input source by turning the input selector knob on the unit.
 The server selection screen will be displayed.
2. Press [A], [v] to select a media server on the network, and then press [OK].
 The folder/content selection screen will be displayed. Repeat this step to make further selections.
 Folders/content may be displayed in different order from the order on the server, depending on its specifications.
3. Press [A], [v] to select an item and then press [OK].

Note

- The connected server and its contents may not be displayed properly depending on its condition. (e.g. soon after adding the contents to the server, etc.) Please try again later. For details, refer to the operating instructions of the device.
- The content may not be played back properly depending on the network condition.


Listening to DAB/DAB+ / FM Radio Basic

Storing DAB/DAB+ stations







To listen to DAB/DAB+ broadcasts, the available stations need to be stored in this unit.

- This unit will automatically start scanning and store the stations available in your region if the memory is empty.
 - 1 Press [RADIO] to select “DAB/DAB+”.

2 “Auto Scan” starts automatically.



- Scan Failed” is displayed if the auto scan is unsuccessful. Locate the position with the best reception ( 11) and then re-scan DAB/ DAB+ stations.

To listen to the stored DAB/DAB+ stations

1. Press [MENU].
2. Press [, [] repeatedly to select “Tuning Mode” and then press [OK].
3. Press [, [] to select “Station” and then press [OK].
4. Press [, [] to select the station.

Presetting DAB/DAB+ stations







You can preset up to 20 DAB/DAB+ stations.

1. Press [RADIOQ] to select “DAB/DAB+”.
2. Press [PGM] while listening to a DAB broadcast.
3. Press [, [] to select the desired preset channel, and then press [PGM].

Presetting is not available when the station is not broadcasting or when the secondary service is selected.





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

To listen to preset DAB/DAB+ stations

1. Press [MENU].
2. Press [, [] repeatedly to select “Tuning Mode” and then press [OK].
3. Press [, [] to select “Preset” and then press [OK].
4. Press [, [] or numeric buttons to select the station.

Storing FM stations

You can preset up to 30 channels.

- A station previously stored is overwritten when another station is selected for the same channel by presetting.
 - 1 Press [RADIOQ] repeatedly to select “FM”.
 - 2 Press [MENU].
 - 3 Press [, [] repeatedly to select “Auto Preset” and then press [OK].
 - 4 Press [, [] to select an item and then press [OK].

Lowest:







To begin the auto preset with the lowest frequency (FM 87.50).

Current:

To begin the auto preset with the current frequency.

- The tuner starts to preset all the stations it can receive into the channels in ascending order.
- The factory default is “Lowest”.

To listen to preset FM channel







1. Press [MENU].
2. Press [, ] repeatedly to select "Tuning Mode" and then press [OK].
3. Press [, ] to select "Preset" and then press [OK].
4. Press [, ] or numeric buttons to select the channel.

Using Bluetooth®


Registering the Bluetooth® device

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


If a Bluetooth® device is already connected, disconnect it.

1. Press [-PAIRING]. When "Pairing" is indicated on the display, proceed to step 5. By pressing and holding [-PAIRING] this unit starts waiting for registering. Proceed to step 5.
2. Press [MENU].
3. Press [, ] repeatedly to select "Pairing" and then press [OK].
4. Press [, ] to select "Yes" and then press [OK]. "Pairing" is displayed, and this unit waits for registering.
5. Select "Technics-SU-GX70-####" from the Bluetooth® device's menu. The name of the connected device is indicated on the display. The MAC address "s####" ("s###%" stands for a character that is unique to each set.) may be displayed before "Technics-SU- GX70-####" s displayed. « If the device name is set on the Google Home app or Apple Home app, the set name is displayed.

Note

- You can also enter pairing mode by pressing and holding [-PAIRING] when the input source is other than "Bluetooth".
- If prompted for the passkey, input "0000".
- While "Standby Mode" is set to "On", this unit automatically turns on when a Bluetooth® connection is established to this unit from a paired Bluetooth® device.

Listening to music stored on a Bluetooth® device

1. Press [-PAIRING].
Ready" or "Pairing" is indicated on the display.
2. Select "Technics-SU-GX70-####" from the Bluetooth® device's menu. The name of the connected device is indicated on the display.
If the device name is set on the Google Home app or Apple Home app, the set name is displayed.
3. Start playback on the Bluetooth® device.

Note

- When enjoying video contents with this function, the video and audio output may not be synchronised.
- Set "Auto Reconnect" to "On" so that this unit tries to connect the last connected Bluetooth® device automatically when "Bluetooth" is selected as an input source.
- This unit can only be connected to one device at a time.

Disconnecting a Bluetooth® device

1. Press [MENU].
2. Press[▲], [▼] repeatedly to select “Disconnect?” and then press [OK].
3. Press [▲], [▼] to select “Yes” and then press [OK].

Note

The Bluetooth® device will be disconnected if a different audio source is selected.

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FLAC Decoder

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HIGH-DEFINITION MULTIMEDIA INTERFACE

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Specifications

GENERAL

Power supply	AC 220 V 50/60 Hz	to 240 V,
Power consumption	63 W	
Power consumption in standby mode (Network standby On)	Approx. 2.0	W
Power consumption in standby mode (Network standby Off)	Approx. 0.5	W
Dimensions (WxHxD)	430 mm 368 mm	x 98 mm x
Mass	Approx. 6.6	kg
Operating temperature range	0 °C to 40	°C
Operating humidity range	35 (%)0 to 80 (no condensation)	% RH

AMPLIFIER SECTION

Output power	40 W + 40W (1 kHz, T.H.D. 1.0 %, 8 K2, 20 kHz LPF) 80W+ 80W (1 kHz, T.H.D. 1.0 %, 4 K2, 20 kHz LPF)
Load Impedance I	4 Ω – 16 Ω
Frequency Response	
PHONO (MM)	20 Hz – 20 kHz (RIAA DEVIATION ± 1 dB, 4 Ω)
LINE	20 Hz – 40 kHz (-3 dB, 4 Ω)
DIGITAL	20 Hz – 80 kHz (-3 dB, 4 Ω)
Input sensitivity/Input impedance	
I LINE	200 mV / 23 $k\Omega$
1 PHONO (MM)	2.0 mV / 47 $k\Omega$

TUNER SECTION Frequency Modulation (FM)

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

DAB

DAB memories	20 channels
Frequency band (wavelength)	Band III (All Band III): 5A to 13F (174.928 MHz to 239.200 MHz)
Sensitivity BER 4×10^{-4}	Min requirement: -98 dBm
DAB external antenna terminal	F-Connector (75 Ω)

Bluetooth® SECTION

Bluetooth® system specification	Bluetooth® Ver.5.1
Wireless equipment classification	Class 1 (4 mW)
Supported profiles	A2DP, AVRCP
Supported codec	AAC, SBC
Frequency band	2.4 GHz band FH-SS
Operating distance	Approx. 10 m Line of sight*1

*1: Prospective communication distance Measurement environment:
Temperature 25 °C/Height 1.0 m Measure in “Mode1”

Wi-Fi SECTION

Standard	IEEE802.11a/b/g/n/ ac / ax
Frequency Band	2.4 GHz band 5 GHz band
Security	WPA2™

« The eature of this product shal The WLAN f f this product shall exclusively be used inside buildings.

TERMINALS SECTION

Headphones Jack	Stereo, 66.3 mm 5 mW, 32 2 (VOL MAX)
USB-A (Front}	Type A Connector
Support Memory Capacity	2 TB (max)
Maximum number of folders (albums)	800
Maximum number of files (songs)	8000
File system	FAT16, FAT32, NTFS
USB port power	DC OUT 5 V0.5 A MAX

USB-B (Rear)	Type B Connector
Ethernet interface	LAN (100BASE-TX/10BASE-T)
Analogue Input	LINE IN x2 (Pin Jack) PHONO (MM) (Pin Jack)
Analogue Output	PRE OUT (Pin Jack)
Digital Input	OPT IN x2 (Optical terminal) COAX IN (Pin Jack)
Format support	LPCM
HDMI Output (ARC)	Type A Connector
Format support	LPCM

FORMAT SECTION USB-A

USB Standard	USB 2.0 High-speed USB Mass Storage class
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USB-B

USB-B	USB 2.0 High-speed USB Audio Class 2.0, Asynchronous mode
DSD control mode	A3 Native mode, DoP mode

Format

This unit supports the following formats.

- This unit does not support the playback of copy-protected music files.
- Playback of all files in formats supported by this unit is not guaranteed.
- Playback of a file in a format not supported by this unit may cause choppy audio or noise. In such cases, check to see if this unit supports the file format.
- This unit does not support VBR (Variable Bit Rate) playback.
- Some of the connected devices or servers may be capable of converting files in formats not supported by this unit and output them. For details, refer to the operating instructions for your devices or servers.
- File information (sampling frequency, etc.) shown by this unit and playback software may differ from each other.
- Depending on PC, application, etc., the content may not be played back even though the sampling frequency is supported. Check the PC, application, etc. to play back properly.

	Extension	Sampling frequency	Bit rate Number of quantisation bits	USB-A	USB-B	LAN (DMR)*2
MP3	.mp3	32/44.1/48 kHz	16 to 320 kbps	✓		✓
AAC	.m4ataac	32/44.1/48/88.2/96 kHz	16 to 320 kbps	✓	✓	✓
WAV	.wav	32/44.1/48/88.2/96/ 176.4/192/352.8/384 kHz	16/24/32 bit	✓		✓
FLAC	.flat	32/44.1/48/88.2/96/ 176.4/192/352.8/384 kHz	16/24 bit	✓		✓
AIFF	.aiff	32/44.1/48/88.2/96/ 176.4/192/352.8/384 kHz	16/24/32 bit	✓		✓
ALAC	.m4a	32/44.1/48/88.2/96/ 176.4/192/352.8/384 kHz	16/24 bit	✓	✓	✓
DSD	.dff/.dsf	2.8/5.6/11.2 MHz		✓	✓	✓
LPCM		32/44.1/48/88.2/96/ 176.4/192/352.8/384 kHz	16/24/32 bit		✓	

*2: Whether or not each music file can be played back over your network is determined by the network server even if the format of the file is listed above. For example, if you are using Windows Media Player 11, not all music files on the PC are playable. You can play back only those added to the library of Windows Media Player 11.

Note

- Specifications are subject to change without notice.
- Mass and dimensions are approximate.

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:

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

Contact to Authorised Representative:

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

Frequency band: 5150 – 5250 MHz:

Indoor use: Inside buildings only. Installations and use inside road vehicles and train carriages are not permitted.
Limited outdoor use: If used outdoors, equipment shall not be attached to a fixed installation or to the external body of road vehicles, a fixed infrastructure or a fixed outdoor antenna. Use by unmanned aircraft systems (UAS) is limited to within the 5170 – 5250 MHz band.

Frequency band: 5250 – 5350 MHz:

Indoor use: Inside buildings only. Installations and use in road vehicles, trains and aircraft are not permitted.
Outdoor use is not permitted.

Frequency band: 5470 – 5725 MHz:

Installations and use in road vehicles, trains and aircraft and use for unmanned aircraft systems (UAS) are not permitted.

The above restrictions apply to the following countries:

AT	BE	BG	CZ	DK	EE	FR	DE	IS
IE	IT	EL	ES	CY	LV	LI	LT	LU
HU	MT	NL	NO	PL	PT	RO	SI	SK
TR	FI	SE	CH	UK(NI)	HR			

UK Declaration of Conformity (DoC)

Hereby, "Panasonic Corporation" declares that this product is in compliance with the essential requirements and other relevant provisions of the Radio Equipment Regulations 2017 No.1206.

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

<https://www.ptc.panasonic.eu/compliance-documents>

Contact in the UK:

Panasonic Testing Centre on behalf of Panasonic UK, a branch of Panasonic Marketing Europe GmbH (Importer)
Maxis 2, Western Road, Bracknell, Berkshire, RG12 1RT
Frequency band: 5150 – 5250 MHz:

Indoor use: Inside buildings only. Installations and use inside road vehicles and train carriages are not permitted.
Limited outdoor use: If used outdoors, equipment shall not be attached to a fixed installation or to the external body of road vehicles, a fixed infrastructure or a fixed outdoor antenna. Use by unmanned aircraft systems (UAS) is limited to within the 5170 – 5250 MHz band.

Frequency band: 5250 – 5350 MHz: **Indoor use:** Inside buildings only. Installations and use in road vehicles, trains and aircraft are not permitted. **Outdoor use** is not permitted.

Frequency band: 5470 – 5725 MHz: Installations and use in road vehicles, trains and aircraft and use for unmanned aircraft systems (UAS) are not permitted.

The above restrictions apply to the United Kingdom.

Type of wireless	Frequency band	Maximum power (dBm e.i.r.p.)
WLAN	2412 – 2472 MHz	18 dBm
	5180 – 5320 MHz	18 dBm
	5500 – 5700 MHz	18 dBm
	5745 – 5825 MHz	14 dBm
Bluetooth	2402 – 2480 MHz	6 dBm

Importer for UK:
Panasonic UK, a branch of
Panasonic Marketing Europe GmbH
Maxis 2, Western Road, Bracknell, Berkshire, RG12 1RT



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DVQX2716ZA/X1

Documents / Resources

 <p>Basic Operating Instructions Network Audio Amplifier SU-GX70</p>	<p>Technics SU-GX70 Network Audio Amplifier [pdf] Instruction Manual su_gx70eb, dvqx2716za, x1, SU-GX70 Network Audio Amplifier, SU-GX70, Network Audio Amplifier, Audio Amplifier, Amplifier</p>
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References

- [P Audio | Digital AV | Support | Panasonic Global](#)
- [A Adobe - Download Adobe Acrobat Reader](#)
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- [Spotify - Web Player: Music for everyone](#)
- [User Manual](#)

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