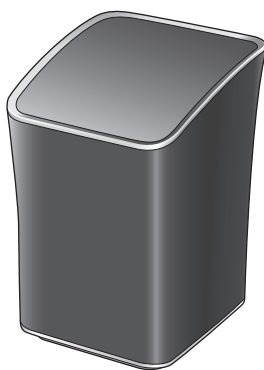




Operating Instructions
<Full version>
Wireless Speaker System
Model No. SC-ALL2




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



Table of contents

Accessories	3
Unit care	4
About Bluetooth®	5
Control reference guide.....	7
Network indicator illumination	8
Connections	10
Network settings.....	12
Streaming music over the network	21
Bluetooth® operations.....	30
AUX input	35
Rear surround	36
Firmware updates	38
Others	39
Troubleshooting.....	47
Specifications	52

How to use this manual

-  Click/Tap this icon to jump to “Table of contents”.
- Pages to be referred to are indicated as “→ ○○”. You can jump to the corresponding page by clicking/tapping this.



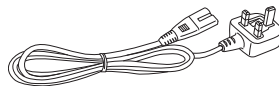
Accessories

1 AC mains lead

For the United Kingdom and Ireland

For the black model: (K2CT2YY00097)

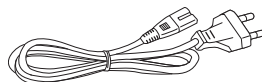
For the white model: (K2CT2YY00110)



For Continental Europe

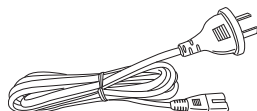
For the black model: (K2CQ2YY00119)

For the white model: (K2CQ2YY00136)



For Australia and New Zealand

(K2CJ2YY00101)



- Do not use AC mains lead with other equipment.
- Product numbers provided in this operating instructions are correct as of May 2015. These may be subject to change.



Unit care

Clean this unit with a soft, dry cloth.

- Never use alcohol, paint thinner or benzene 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.

(→ 47, "To restore the settings to the factory defaults")

- The operation history may be recorded in the memory of this unit.

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 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 unit.
 - Removing specification indications.

■ Restrictions of use

- Wireless transmission and/or usage with all Bluetooth® equipped devices is not guaranteed.
- All devices must conform to standards set by 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.



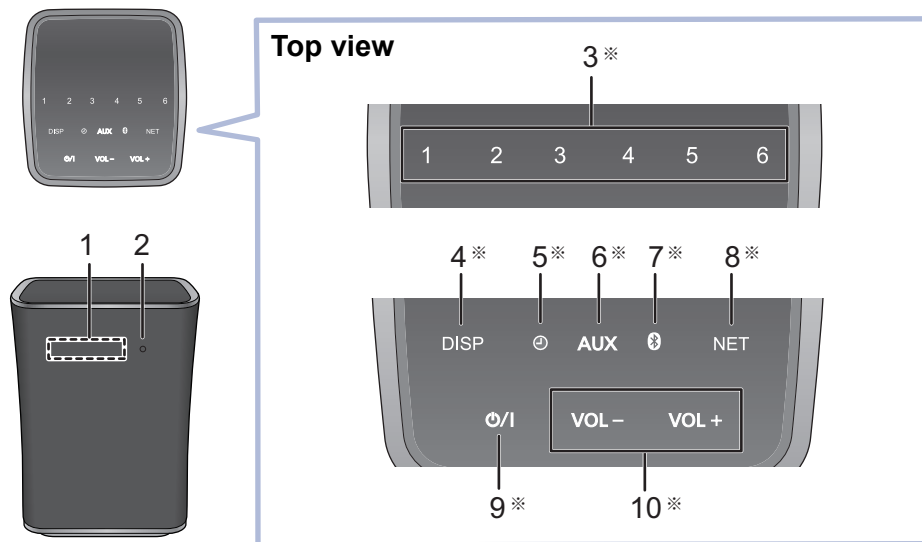
- This system may not function properly if radio waves from a nearby broadcasting station, etc. are too strong.

■ 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

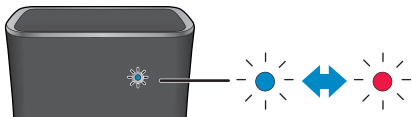
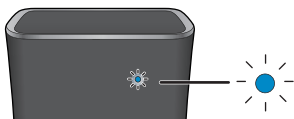


- 1 Display
 - 2 Network indicator (→ 8, 9)
 - 3 Internet radio preset channel switches [1] to [6] (→ 28)
(These switches are without illumination.)
 - 4 Display switch and indicator [DISP]
 - 5 Alarm switch and indicator [⏻]
 - 6 AUX switch and indicator [AUX]
 - 7 Bluetooth® switch and indicator [Ⓜ]
 - 8 Network switch and indicator [NET]
Enter WPS pairing mode (→ 17) /
firmware update mode (→ 38)
 - 9 Standby/on switch and indicator [⏻/I]
Touch 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.
 - 10 Volume control switch and indicator [VOL -]/[VOL +]
Adjust the volume (0 (min) to 50 (max))
- ※ These switches work just by touching the marks. Each time you touch the switch, there will be a beep sound. The beep sound can be set to off. (→ 45)

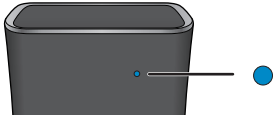
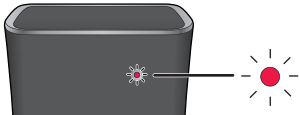


Network indicator illumination

The below illustrates the network indicator illumination patterns.

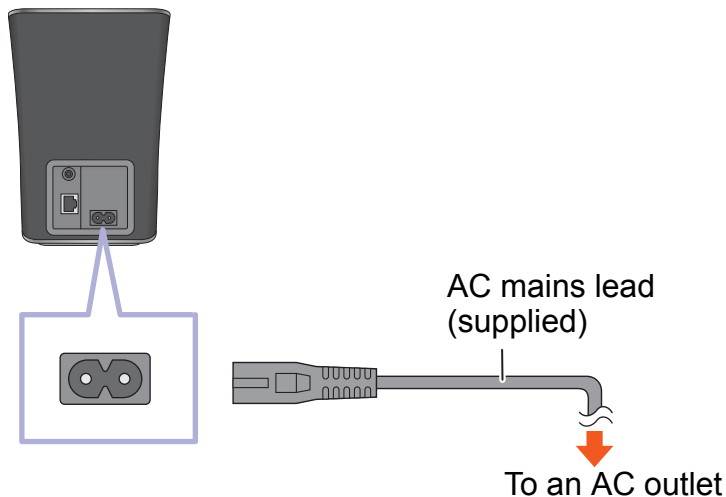
Network indicator	Description
Illumination: blue/red 	Blinks alternately <ul style="list-style-type: none">• The unit is carrying out an internal process.<ul style="list-style-type: none">– Wait for approximately 1 minute before the blinking stops.– Do not disconnect the AC mains lead. Doing so may cause malfunction or damage.
Illumination: blue 	Blinks slowly <ul style="list-style-type: none">• The unit is ready for network setup. (→ 12) Blinks <ul style="list-style-type: none">• The unit is waiting for the WPS PUSH connection. (→ 17) Blinks fast <ul style="list-style-type: none">• The unit is waiting for the WPS PIN code connection. (→ 17)



Network indicator	Description
Illumination: blue 	Lights up <ul style="list-style-type: none">• The unit is connected to the network.
Illumination: red 	Blinks <ul style="list-style-type: none">• The unit is connecting to the network.<ul style="list-style-type: none">– When the network connection cannot be established, the blinking keeps going. Check the network connection. (→ 12)



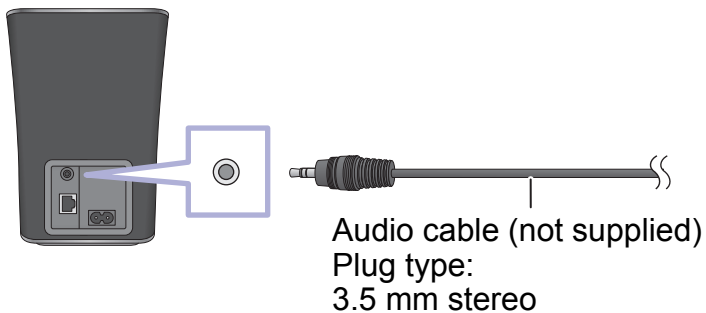
Connections



- This unit consumes a small amount of AC power (→ 52) even when turned off.
- For the purpose of power conservation, disconnect the power supply if you will not be using it for extended period of time.
Some settings will be lost after you disconnect the system. You have to set them again.
- This speaker does not have magnetic shielding. Do not place them near a TV, PC or other magnetic devices.
- Do not disconnect the AC mains lead when the unit is on. Doing so may cause malfunction or damage.



Connection of an external device



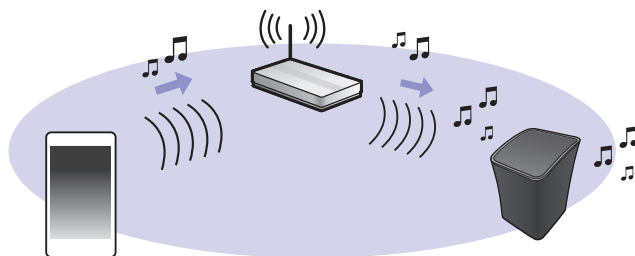
- For details, refer to the operating instructions of the device.



Network settings

You can stream music from a device on the network by using the Qualcomm® AllPlay™ smart media platform or DLNA feature. To use these features, this unit must join the same network as the device.

- Please update the unit's firmware after the network settings are complete. (→ 38)



Choose a network setting method from the following.

“Using an Internet browser” (→ 13)

- You can access this unit's network settings from the Internet browser on your smartphone or tablet, etc.

“Using WPS (Wi-Fi Protected Setup™)” (→ 17)

- If your wireless router supports WPS, you can set up a connection by either pressing the WPS button, or entering the WPS PIN code.

“Using a LAN cable” (→ 19)

- You can make a stable connection to the network with a LAN cable.



- The setting will be cancelled after the set time limit. In that case, try the setting again.
- To cancel this setting in the middle, touch [⏻/I] to turn off the unit.



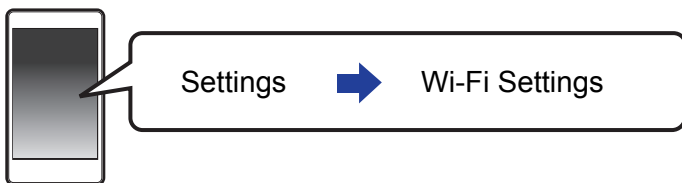
Using an Internet browser

- The following steps are based on a smartphone.
- Do not connect a LAN cable. Doing so will disable the Wi-Fi® function.

1 Turn this unit on.

2 Go to Wi-Fi® settings on the device.

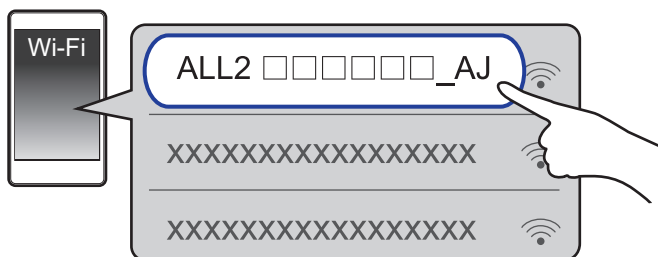
- Proceed to the next step after the network indicator changes from blinking in blue and red to blinking slowly in blue*.
 - ※ The blinking in blue starts after approximately 1 minute. If the blinking in blue does not start, perform a network reset. (→ 16)





3 Select “ALL2 □□□□□_AJ” to connect to this unit.

- “□” stands for a character that is unique to each set.
- This can take up to 1 minute to appear in your Wi-Fi list.
- If this operation does not work correctly, please repeat it several times.
- Make sure that DHCP is enabled for the network setting on your compatible device.



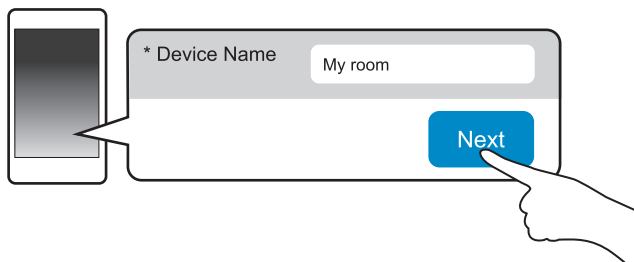
iOS device: The settings page will be automatically displayed in the Internet browser.

Except iOS device: Open the Internet browser and refresh the page to display the settings page.

- If the settings page is not displayed, type “http://172.19.42.1/” into the URL address field.

4 Type a device name and then select “Next”.

- The device name will be displayed as this unit’s name on the network.
- The guaranteed limit is 32 characters.
- The device name is set when “Next” is selected.
- You can also change the device name after the network connection is set up. (→ 20)



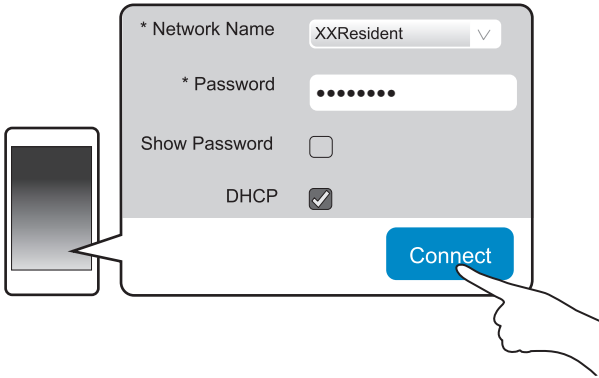


5 Select your network name (SSID) and type the password.

- Check the wireless router for the network name (SSID) and the password.
- A list of network names (SSIDs) will be appeared when you select the “Network Name” box.
- To show the characters typed in the “Password” box, select “Show Password”.
- If your network requires specific settings, deselect “DHCP” to disable DHCP.
 - You can use specific IP address, subnet mask, default gateway, primary DNS, etc.

6 Select “Connect” to apply the settings.

- When the connection is established, the network indicator (blue) lights up.
- Depending on the device, the connection complete screen may not be displayed.



If the network indicator does not light up, check the network name (SSID) and the password, and then try the setting again.

7 Make sure to connect your compatible device back to your home wireless network.



- Enable Java and cookies in your browser settings.



■ Network standby

This unit will turn on automatically from standby mode when you select the unit as the output speakers.

- Network standby is normally active while the unit is connected to a network.
- The power consumption in standby mode will increase when the network standby is on. To reduce the power consumption in standby mode, turn off the network standby.

To turn off the network standby

- 1 Touch and hold [NET] and [2] until “On” or “OFF” is indicated on the display.
- 2 Touch [VOL -] or [VOL +] to change the setting.
- 3 Touch [DISP] to confirm the setting.
 - To keep the network standby turned off, select a source other than “NET” before switching the unit to standby mode.



- If this function is set to on, the network (wired LAN/Wi-Fi) remains active even in standby mode.
 - The power consumption in standby mode will increase.
- If this function is set to off, the network (wired LAN/Wi-Fi) is disabled in standby mode.
 - The network (wired LAN/Wi-Fi) will be enabled when the unit is turned on.
 - The power consumption in standby mode will be reduced.
- If the network indicator is blinking in blue and red, wait until the blinking stops.
- When the unit is turned on by this feature, the beginning part of the music may not be played back.
- Depending on the app, the conditions for activating this function may differ.
- The unit may not turn on even when selected as the output speakers. In that case, start playback.

■ Network reset

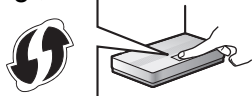
- 1 Touch and hold [NET] and [1] for at least 4 seconds, “-- --” on the display will start blinking.
- 2 Touch [NET] within 10 seconds, the network indicator starts blinking blue/red.



Using WPS (Wi-Fi Protected Setup™)

- Do not connect a LAN cable. Doing so will disable the Wi-Fi function.

e.g.,



A compatible wireless router may have the WPS identifier mark.

1 Turn this unit on.

- Proceed to the next step after the network indicator changes from blinking in blue and red to blinking slowly in blue*.
 - ※ The blinking in blue starts after approximately 1 minute. If the blinking in blue does not start, perform a network reset. (→ 16)

2 Touch and hold [NET] on the unit for at least 4 seconds.

- The network indicator (blue) blinks faster and “PUSH” is indicated on the display.

3 Activate the WPS button on the wireless router.

- When the connection is established, the network indicator (blue) lights up.

■ Using the WPS PIN code

After step 2

3 Touch and hold [NET] again for at least 4 seconds.

- The network indicator (blue) blinks even faster and “PIN” is indicated on the display.

4 Enter the PIN code “64428147” into the wireless router.

- When the connection is established, the network indicator (blue) lights up.



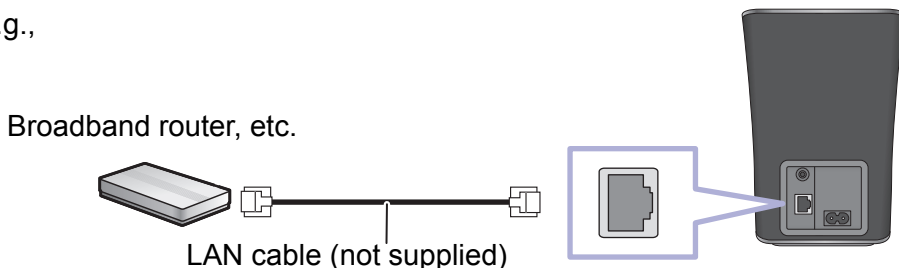
-
- Once the unit enters WPS PIN code mode, you cannot set up using the WPS button. To use the WPS button, turn off and then on the unit, and redo the network settings.
 - Depending on a router, other connected devices may temporarily lose their connection.
 - For details, refer to the operating instructions of the wireless router.



Using a LAN cable

- 1 Disconnect the AC mains lead.**
- 2 Connect this unit to a broadband router, etc. using a LAN cable.**

e.g.,



- 3 Connect the AC mains lead to this unit, and turn the unit on.**
 - When the connection is established, the network indicator (blue) lights up.



- Use category 5 or above straight LAN cables (STP) when connecting to peripheral devices.
- The LAN cable must be connected or disconnected while the AC mains lead is disconnected.
- Inserting any cable other than a LAN cable in the LAN port can damage the unit.
- If the LAN cable is disconnected, the network-related settings (→ 20) will be initialized. In that case, make the settings again.
- When a LAN cable is connected, the Wi-Fi function will be disabled.
 - Power consumption will be reduced when the unit is turned on or is in standby mode.



To make network-related settings

You can change this unit's name on the network, and use specific IP address, subnet mask, default gateway, primary DNS, etc.

You can also change the name of this unit by changing a setting in the app "Panasonic Music Streaming" (version 2.0.8 or later) (→ 21). For details on the app, refer to the site below.

<http://panasonic.jp/support/global/cs/audio/app/> (This site is in English only.)

Preparation

- Complete the network settings. (→ 12)

1 Connect your device to the same network as this unit.

2 Check this unit's IP address (→ 46), and note it down.

3 Start an Internet browser on your device and then type this unit's IP address into the address field to display the settings page.

- It may take a few minutes until the settings page is displayed depending on the environment. In that case, reload the browser.
- If the unit is connected with Wi-Fi, only a device name can be changed. Close the settings page after changing the device name.
 - To change the device name, select "Change", and type a new device name, and then select "Apply".

4 Type a device name and then select "Next".

- Refer to the step 4 of "Using an Internet browser" (→ 14) for details on a device name.

5 Select and input the details.

- If your network requires specific settings, deselect "DHCP" to disable DHCP.
 - You can use specific IP address, subnet mask, default gateway, primary DNS, etc.

6 Select "Connect" to apply the settings.

- When the connection is established, the network indicator (blue) lights up.



Streaming music over the network

You can stream music from your devices or online music services to this system's speaker and other AllPlay speakers.

You can also stream music source of this system to other AllPlay speakers.

Streaming music on network devices

You can use the AllPlay or the DLNA function to stream music from the device on the network to this system's speakers by using the app "Panasonic Music Streaming" (free of charge), etc.

- **iOS** : App Store
- **Android** : Google Play™



The operations and on-screen display items, etc. of the app "Panasonic Music Streaming" are subject to change.

For the latest information, visit

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

More apps are available. For details, visit

www.panasonic.com/global/consumer/homeav/allseries/service

(These sites are in English only.)

Preparation

- Complete the network settings. (→ 12)
- Connect the following devices to the same network as this system.
 - Device with "Panasonic Music Streaming", etc. installed
 - Device containing music



The following steps are based on “Panasonic Music Streaming”.

1 Turn this unit on.

- Check that the network indicator (blue) lights up.
 - If the network indicator is blinking in blue and red, wait until the blinking stops.

2 Start the app “Panasonic Music Streaming”.

- Always use the latest version of the app.

3 Select a music source.

- To add music source, select “+ My Music Network” and then select the device containing music.
 - The added music source is numbered in order from 1.

4 Select a song.

5 From “Select Speaker”, select this system as the output speakers.

e.g.,




- If you have multiple AllPlay speakers, you can enjoy synchronised sound from them. Select “GROUP” and then select the speakers to group.
 - If “STEREO” is shown, you can change the speaker mode for the corresponding speaker to left or right channel to make stereo pairing.
 - You can also play different songs on other AllPlay speakers at the same time.
 - The number of AllPlay speakers that can perform playback at the same time differs depending on the situation of use.
 - When you turn off one of the AllPlay speakers, other AllPlay speakers in the same group may stop the playback.

■ Enhancing the sound

When using the app “Panasonic Music Streaming”, you can use the below sound functions from the settings of the app.

- Equaliser
- Clear mode dialog



- This system will be displayed as “Panasonic ALL2” if the device name is not set.
 - When playing back music from the DLNA server (PC with Windows 7 or later installed, smartphone, Network Attached Storage (NAS) device, etc.), add the contents and folder to the libraries of the Windows Media® Player, the smartphone, or the NAS device, etc.
 - Playlist of Windows Media® Player can play back only the contents that are stored in the libraries.
 - When this system is selected as DLNA speakers ( - The volume control on the unit may not apply to the app.
 - Playback control using a progress bar on playback screen may not work.
 - The volume level applied to AllPlay speakers will not be reflected.
 - If the system is selected as output speakers by another device, the music source is changed to the new device. However the former device’s display may not change.
- About supported format, refer to “Audio support format” (→ 53, 54).
 - File formats that are not supported by your DLNA server cannot be played.
- Depending on the contents and the connected equipment, playback may not be performed properly.
- Ensure to stop playback on your device before turning it off.



Streaming online music

This unit is compatible with several music services.

Visit the following website for the compatibility information.

www.panasonic.com/global/consumer/homeav/allseries/service

Preparation

- Make sure that the network is connected to the Internet.
- Connect a device with a compatible app installed to the same network as this system.

1 Turn this unit on.

- Check that the network indicator (blue) lights up.
 - If the network indicator is blinking in blue and red, wait until the blinking stops.

2 Start the app, and select a song to playback.

■ Using Spotify

- You will need Spotify Premium. For details, visit the following website.
www.spotify.com/connect/

After step 2

3 Select the square image of the song's cover art in the bottom left of the playback screen.

4 From “”, select this system as the output speakers.

- To enjoy synchronised sound from the multiple AllPlay speakers, you need to group the speakers using the app “Panasonic Music Streaming”. (→ 21)



■ Using online music services other than Spotify

After step 2

3 From “((🔊))”, select this system as the output speakers.

- Depending on the service, you might need to open full screen player to display “((🔊))”.
- If you have multiple AllPlay speakers, you can enjoy synchronised sound from them. Select “Group” and then select the speakers to group.



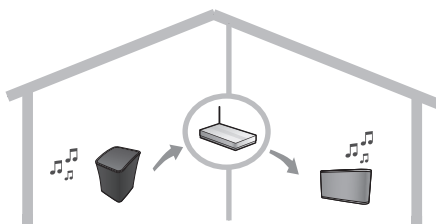
- This system will be displayed as “Panasonic ALL2” if the device name is not set.
- Registration/subscription is required.
- Fees may apply.
- Services, icons, and specifications are subject to change.
- For details, visit the individual music service’s website.



Streaming music on this system to other AllPlay speakers

You can use the app “Panasonic Music Streaming” (→ 21) to stream this system’s music source (Bluetooth®/AUX/preset internet radio source) to other AllPlay speakers.

e.g.,



Preparation

- Complete the network settings. (→ 12)
- Prepare the desired audio source on this system (e.g. turn on the connected device, etc.).
- Install your device with the app “Panasonic Music Streaming”.
- Connect your device and your AllPlay speakers to the same network as this system.

1 Turn this unit on.

- Check that the network indicator (blue) lights up.
 - If the network indicator is blinking in blue and red, wait until the blinking stops.



2 Start the app “Panasonic Music Streaming”.

- Always use the latest version of the app.

3 Go to the “Music Source”.

- The available music sources from this system will be listed on your device, under the device name for this system.

4 Select your desired music source from the list.

5 The device will start to read the selected music source’s information from this system.

- This system will change to the selector mode for the selected music source.
- Depending on the selected music source, playback may start. If a content list appears on your device, select the desired content to start playback.

6 To stream this system’s audio to the other AllPlay speakers

- 1 From “Select Speaker”, select “GROUP” next to the device name for this system.
- 2 Select the speakers to group.
 - If “STEREO” is shown, you can change the speaker mode for the corresponding speaker to left or right channel to make stereo pairing.
 - The number of AllPlay speakers that can perform playback at the same time differs depending on the situation of use.
 - When you turn off one of the AllPlay speakers, other AllPlay speakers in the same group may stop the playback.



- This system will be displayed as “Panasonic ALL2” if the device name is not set.
- Sound is output from other AllPlay speakers after a delay of about 1 second.
- When enjoying video contents with this function, the video and audio output may not be synchronised.
- If music is streamed to other AllPlay speakers for more than 8 hours, the other AllPlay speakers will automatically stop playing the music. (The specifications are subject to change without notice.)



Presetting stations (when listening internet radio)

This system can preset stations when playback using internet radio app “AllPlay Radio” only.

You can preset up to 6 channels.

- A station previously stored is overwritten when another station is stored in the same channel preset.

Preparation

- Make sure that the network is connected to the Internet.
- Connect a device with an “AllPlay Radio” app installed to the same network as this unit.

1 Turn this unit on.

- Check that the network indicator (blue) lights up.
 - If the network indicator is blinking in blue and red, wait until the blinking stops.

2 Start the app “AllPlay Radio”, and select a station to playback.

- Always use the latest version of the app.

3 Touch and hold one of [1] to [6] on the unit for at least 4 seconds to preset the selected station.

e.g.,

“P1” blinks 3 times when [1] is selected.



■ Listening to a preset channel

Touch one of [1] to [6] on the unit.



- When selected preset channel had not been preset, “no:ch” is displayed.



Bluetooth® operations

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

- Refer to the operating instructions of the Bluetooth® device for further instruction on how to connect a Bluetooth® device.


Connecting via Bluetooth® menu

Preparation

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

■ Bluetooth® pairing


1 Touch [].

- If [] blinks fast, go to step 3.

2 To enter pairing mode, touch and hold [] for at least 2 seconds.

- [] will blink fast.



3 Select “SC-ALL2” from the Bluetooth® device’s Bluetooth® menu.

- The MAC address (e.g., 6C:5A:B5:B3:1D:0F) may be displayed before “SC-ALL2” is displayed.
- [] lights up and the device is connected to this unit.



■ Connecting a paired Bluetooth® device


1 Touch [].

- [] blinks slowly.
- If [] lights, a Bluetooth® device is already connected with this unit.
Disconnect it. (→ below)

2 Select “SC-ALL2” from the Bluetooth® device’s Bluetooth® menu.

3 Start playback on the Bluetooth® device.

■ Disconnecting a Bluetooth® device

Touch and hold [] for at least 2 seconds.

- [] blinks slowly.



- If prompted for the passkey, input “0000”.
- You can register up to 8 devices with this unit. If a 9th device is paired, the device that has not been used for the longest time will be replaced.
- This unit will automatically try and connect to the last connected Bluetooth® device.
- When the unit is selected as the AllPlay/DLNA speakers, the audio source will change to the network.
- Bluetooth® cannot be selected as the audio source when the unit is waiting for the WPS PUSH or WPS PIN code connection.
- This unit can only be connected to one device at a time.
- When enjoying video contents with this function, the video and audio output may not be synchronised.



Bluetooth® standby

This function allows you to connect a paired Bluetooth® device when this unit is in standby mode.

- This unit will be turned on automatically when you connect a paired Bluetooth® device.
 - If this function is set to “On”, the standby power consumption will increase.

1 Touch and hold [] and [1] for at least 4 seconds.

2 Touch [VOL –] or [VOL +] to select “On”.

3 Touch [DISP] to confirm the setting.



- To turn the function off, select “OFF” in step 2.
- The factory default is OFF.



Bluetooth® transmission mode

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

Preparation

- Touch [].
- If a Bluetooth® device is already connected, disconnect it.

1 Touch and hold [] and [2] for at least 4 seconds.

2 Touch [VOL –] or [VOL +] to change the setting.

LI: 1: Emphasis on connectivity

LI: 2: Emphasis on sound quality

3 Touch [DISP] to confirm the setting.



- Select “LI: 1” if the sound is interrupted.
- The factory default is “LI: 2”.



Bluetooth® input level

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


Preparation

- Make sure that a Bluetooth® device is already connected with this unit.
(→ 31)

1 Touch and hold [] and [3] for at least 4 seconds.

- “In: 0” blinks on the display.

2 Touch [VOL –] or [VOL +] to change the setting.

Display	Bluetooth® input level
In: 0	Low
In: 1	
In: 2	High

3 Touch [DISP] to confirm the setting.



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



AUX input

You can also listen to music from an external music player through this unit.

Preparation

- Connect an external device. (→ 11)

1 Touch [AUX].

- [AUX] indicator lights up.

2 Start playback on the connected device.

■ To select the sound input level of the external device

1 While in AUX mode, touch and hold [AUX] for at least 4 seconds.

- “In: 0” is blinking on the display.

2 Touch [VOL –] or [VOL +] to change the setting.

In: 0: Normal level

In: 1: High level

- The factory default is “In: 0”.

3 Touch [DISP] to confirm the setting.



- To improve sound distortion when “In: 1” is selected, select “In: 0”.
- Turn the volume of the external device down to reduce the input signal. High level of input signal will distort the sound.
- For details, refer to the operating instructions of the device.
- When the unit is selected as the AllPlay/DLNA speakers, the audio source will change to the network.
- AUX cannot be selected as the audio source when the unit is waiting for the WPS PUSH or WPS PIN code connection.



Rear surround

You can add two SC-ALL2 to Panasonic SC-ALL70T (sold separately) as rear surround speakers to enjoy 5.1 ch surround sound.

- Refer to the operating instructions for SC-ALL70T.

Pairing

Preparation

- Turn SC-ALL2 and SC-ALL70T on.

- 1 Start the pairing mode on SC-ALL70T.**
- 2 Touch and hold [AUX] and [6] on each SC-ALL2 for at least 4 seconds.**
 - The network indicator goes off.
 - [NET] starts to blink slowly.
- 3 Touch and hold [AUX] for at least 4 seconds.**
 - The below display is indicated.



- 4 Make the left and right surround speaker settings on each SC-ALL2.**

To set SC-ALL2 as left surround speaker

Touch [VOL -] to select “0-: ”, and then touch [DISP] to confirm.

To set SC-ALL2 as right surround speaker

Touch [VOL +] to select “:-0”, and then touch [DISP] to confirm.

When you have finished the speaker selections, SC-ALL2 will enter pairing mode.

- “0000” blinks on the display.
 - When pairing is successful, “good” appears on the display.
 - If you try to set left and right surround speakers to the same channel on SC-ALL2, pairing fails.
 - If pairing fails, “FAIL” is displayed.
- Repeat the procedure from the beginning if this occurs.



■ To switch to network speaker mode

Turn SC-ALL70T and SC-ALL2 off and then turn SC-ALL2 on again.

- The network indicator will light up or blink.
- The audio source will change to the network.

■ To switch to rear surround mode

Touch and hold [AUX] and [6] on each SC-ALL2 for at least 4 seconds.

- The network indicator will go off.



- The pairing mode is cancelled after about 2 minutes elapses. You can also touch [⏻/I] to cancel it.
- When this unit is in rear surround mode, turning the paired SC-ALL70T on/off will automatically turn this unit on/off.
- The below functions are not available when this unit is paired as rear surround speaker.
 - Streaming music by network
 - Alarm/Sleep timer
 - Changing to other selector (AUX, Bluetooth®, Network)
 - Volume switches on this unit
- You cannot adjust the delay time with this unit.



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.

You can also update the firmware from a pop-up prompting you to do so on-screen within the app “Panasonic Music Streaming” (version 2.0.8 or later) (→ 21). For details on the app, refer to the site below.
<http://panasonic.jp/support/global/cs/audio/app/> (This site is in English only.)

Preparation

- Connect this unit to the network. (→ 12)
 - Make sure that the network is connected to the Internet.
- If the network indicator is blinking in blue and red, wait for it to light up in blue.

1 Touch and hold [NET]. When “UPd” starts blinking and while you are still touching and holding [NET], touch [AUX].

- Release your fingers from the switches after “UPd” is indicated on the display.
- During the update process, no other operations can be performed.
 - Do not disconnect the AC mains lead. Doing so may cause malfunction or damage.

2 After the update has finished, “good” is indicated on the display.



- Downloading will require several minutes. It may take longer or may not work properly depending on the connection environment.
- If there are no updates, “no nEEd” is displayed.



Others

Displaying the clock

You can stream the clock information from the device to this unit by using the app “Panasonic Music Streaming” (→ 21).

Preparation

- Complete the network settings. (→ 12)
- Install your device with the app “Panasonic Music Streaming”.

1 Turn this unit on.

- Check that the network indicator (blue) lights up.
 - If the network indicator is blinking in blue and red, wait until the blinking stops.

2 Start the app “Panasonic Music Streaming”.

- Always use the latest version of the app.
- The clock will be displayed on this unit.



Changing the clock display

You can change the clock display.

■ To change to 12-hour clock

Touch and hold [DISP] and [2] for at least 4 seconds.



■ To change to 24-hour clock

Touch and hold [DISP] and [1] for at least 4 seconds.



- The factory default is 24-hour clock.






Changing the display mode


Touch [DISP].

Each time you touch [DISP], the display changes as follows:

Blank display  Clock display / "--:--"

- During playback of a preset channel, the current preset channel will be shown for a few seconds when you touch [DISP].
 - When you touch [DISP] repeatedly, the display changes as follows:


Blank display  Preset channel  Clock display / "--:--"  Preset channel



Dimmer function

You can change the brightness of the display and indicators.

- 1 Touch and hold [DISP] for at least 4 seconds.
- 2 Touch [VOL -] or [VOL +] to change the setting.
- 3 Touch [DISP] to confirm the setting.

Display	Brightness
d: 0	Bright
d: 1	
d: 2	Dim



- If “d: 1” or “d: 2” is selected, the display and indicators will brighten when you perform some operations.



Auto off function

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

To cancel this function

- 1 Touch and hold [DISP] and [6] for at least 4 seconds.**
- 2 Touch [VOL –] or [VOL +] to select “OFF”.**
- 3 Touch [DISP] to confirm the setting.**



- To turn the function on, select “On” in step 2.
- About one minute before the unit turns off by this function, “A_OFF” is displayed. Touch any switch to cancel it.
- When connected to a Bluetooth® device, the function does not work.
- This setting cannot be selected when network standby is on. If network standby is set to on, this function will also be set to “On”. To change the setting, set the network standby to “OFF”. (→ 16)



Alarm and sleep functions

You can make settings for the alarm and sleep functions by using the app “Panasonic Music Streaming”. (→ 21)

The operations and on-screen display items, etc. of the app “Panasonic Music Streaming” are subject to change.

For the latest information, visit

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

(This site is in English only.)

- The available settings are
 - Alarm 1-5 on/off
 - Alarm 1-5 setting (time, day, music source[※])
 - [※]Preset channel 1-6, buzzer
 - Snooze duration (off, 1 minute to 30 minutes at 1-minute interval)
 - Sleep duration (off, 30 minutes to 120 minutes at 30-minute interval)

Sleep timer operation

- The remaining time is indicated at every minute (scrolling display) and then the last minute is indicated until the unit's off.
- After the set time has elapsed, this unit will turn off, and sleep timer setting will not be memorised.



■ When an alarm is activated

The indicators on the top panel of the unit blink fast.

When snooze is not set

- Touch any key on the unit during blinking to turn off the alarm.

When snooze is set

- Touch any key on the unit during blinking to enter snooze mode.

■ When a snooze is activated

The indicators on the top panel of the unit blink slowly.

- Touch [⏸] or [⏹/I] on the unit to turn off the alarm.



- When you turn on an alarm, [⏸] indicator will light up.
- When the current alarm is turned off, [⏸] indicator goes off if you have not turned on any other set alarm. (If another set alarm has been turned on, [⏸] indicator will light up.)
- When no operation is performed during the alarm activation, the alarm will be off after approximately 1 hour.
- When an alarm is activated with preset channel, the playback condition will depend on the connection environment.



Operation sound setting

As a factory default, there will be a beep sound when you touch the switch on the unit.

■ To cancel this function

Touch and hold [DISP] and [VOL –] for at least 4 seconds.

- “OFF” is indicated.




- To turn the function on, perform the same operation as the above.
 (“On” will be indicated.)

Wi-Fi signal strength

To check the Wi-Fi signal strength where the unit is located.

Touch and hold [NET] and [3] for at least 4 seconds.

Display	Wi-Fi signal strength
L:0	Weak
L:1	
L:2	
L:3	
	Strong



- If the network indicator is blinking in blue and red, wait until the blinking stops.
- If the Wi-Fi signal strength cannot be checked, deselect the unit from AllPlay/DLNA speakers, and try again.



IP/MAC address

To check the unit's IP address and the MAC address.

Preparation

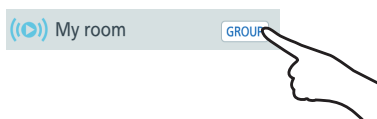
- Download the app “Panasonic Music Streaming”. (→ 21)

1 Start the app “Panasonic Music Streaming”.

2 Select “Select Speaker”.

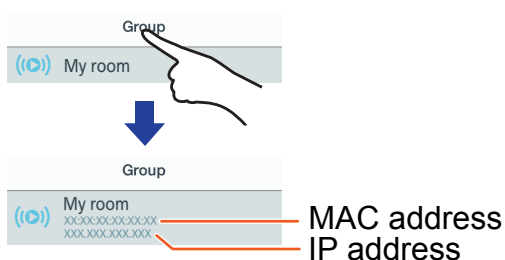
3 Select “GROUP”.

e.g.,



4 Touch and hold “Group” in the title bar at the top.

e.g.,



- This unit will be displayed as “Panasonic ALL2” if the device name is not set.
- If the network indicator is blinking in blue and red, wait until the blinking stops.



Troubleshooting

Before requesting service, make the following checks.
If the problem remains unresolved, consult your dealer for instructions.

Do you have the latest firmware installed?

- Panasonic is constantly improving the unit's firmware to ensure that our customers are enjoying the latest technology. (→ 38)

For further dedicated help, support and advice about your ALL Series product please visit:

<http://panasonic.jp/support/global/cs/audio/ALL/index.html>

(This site is in English only.)

General

To restore the settings to the factory defaults

- If you want to restore the network settings to factory defaults, perform a network reset. (→ 16)
- ① Turn this unit on.
 - ② Touch and hold [⏻/I] for at least 4 seconds.

Display



Blinking

- ③ While continuing to hold [⏻/I], touch [NET].
- ④ During the reset process, "--:--" will be displayed.
(The indicators on the top panel of the unit will blink 4 times.)
- ⑤ The unit will turn off.
"-- --" appears and the reset is complete.



Humming heard during playback.

- There are cords of other appliances or fluorescent light near the unit's AC mains lead. Turn the appliances off or keep them away from the AC mains lead.

The sound is distorted when using the AUX IN jack.

- High level of input signal distorts the sound. Turn down the volume of the connected device to reduce the input signal.

The network indicator does not stop blinking in blue and red.

- The unit needs to be repaired. Consult your dealer.

The unit does not work as described in the Operating Instructions.

- Update the unit's firmware. (→ 38)



Bluetooth®

Pairing cannot be done.

- Check the Bluetooth® device condition.

The device cannot be connected.

- The pairing of the device was unsuccessful or the registration has been replaced. Try pairing the device again. (→ 30)
- This system might be connected to a different device. Disconnect the other device and try pairing the device again.

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

- For some Bluetooth® devices, you have to set the audio output to “SC-ALL2” manually. Read the operating instructions for the device for details.

Connection is interrupted.

Sound is interrupted/sound skips/there is a lot of noise.

- Remove any obstacle between this system and the device.
- Other devices that use the 2.4 GHz frequency band (wireless router, microwaves, cordless phones, etc.) are interfering. Bring the Bluetooth® device closer to this system and distance it from the other devices.
- Select “LI: 1” for stable communication. (→ 33)

If the above does not fix the problem, you may be able to fix the problem by reconnecting this unit and the Bluetooth® device. (→ 31)



Firmware updates

“FAIL” is indicated on the display.

- The update has been failed. Touch any switch, and then try again.
- When using a LAN cable, make sure to connect the LAN cable while the AC mains lead is disconnected. (→ 19)

Network

Cannot connect to the network.

- This unit's Wi-Fi security supports WPA2™ only. Your wireless router must therefore be WPA2™ compatible. For details on the security supported by your router and how to change the settings, please refer to the operating instructions or contact your Internet service provider.
- If the network is set to be invisible, make the network visible while you set up the network for this unit or make a wired LAN connection. (→ 19)
- Make sure that the multicast function on the wireless router is enabled.
- Depending on the routers, WPS button may not work. Try other methods. (→ 12)

Cannot select this unit as the output speakers.

- Make sure that the devices are connected to the same network as this unit.
- Reconnect the devices to the network.
- Turn off and then on the wireless router.



**Playback does not start.
The sound is interrupted.**

- If using the 2.4 GHz band on the wireless router, simultaneous use with other 2.4 GHz devices, such as microwaves, cordless telephones, etc., may result in connection interruptions. Increase the distance between this unit and these devices.
 - If your wireless router supports 5 GHz band, try using the 5 GHz band.
To change to the 5 GHz band, perform a network reset (→ 16), and redo the network settings using an Internet browser (→ 13). On the step 5, make sure to select your network name (SSID) for the 5 GHz band.
- Do not place this unit inside a metal cabinet, for it might block the Wi-Fi signal.
- Place this unit closer to the wireless router.
- If several wireless devices are simultaneously using the same network as this unit, try turning off the other devices or reducing their network usage.
- Reconnect the devices to the network.
- Turn off and then on the wireless router.
- Try a wired LAN connection. (→ 19)



Specifications

■ GENERAL

Power supply

AC 220 V to 240 V, 50 Hz

Power consumption

12 W

Power consumption in standby mode

(When Bluetooth® standby is off)^{※1, ※2}

Approx. 0.3 W

(When Bluetooth® standby is on)^{※1, ※2}

Approx. 0.4 W

(When Network standby is on)

Approx. 3.5 W

Dimensions (W×H×D)

120 mm×180 mm×135 mm

Mass

Approx. 1.5 kg

Operating temperature range

0 °C to +40 °C

Operating humidity range

35 % to 80 % RH (no condensation)

■ TERMINALS SECTION

Ethernet interface

LAN (10BASE-T/100BASE-TX)

AUX IN

Stereo, 3.5 mm jack



■ Bluetooth® SECTION

Version

Bluetooth® Ver.2.1 +EDR

Class

Class 2

Supported profiles

A2DP

Frequency band

2.4 GHz band FH-SS

Operating distance

Approx. 10 m Line of Sight

■ Wi-Fi SECTION

Wi-Fi

WLAN Standard

IEEE802.11a/b/g/n

Frequency range

2.4 GHz band / 5 GHz band

Security

WPA2™

WPS version

Version 2.0

Audio support format (AllPlay)

MP3/AAC

Sampling frequency

32/44.1/48 kHz

Audio word size

16 bits

Channel count

2 ch

FLAC*3/ALAC/WAV

Sampling frequency

32/44.1/48/88.2/96/176.4/192 kHz

Audio word size

16 bits/24 bits

Channel count

2 ch



Audio support format (DLNA)

MP3

Sampling frequency 32/44.1/48 kHz

Audio word size 16 bits

Channel count 2 ch

FLAC^{※3}/WAV

Sampling frequency 32/44.1/48/88.2/96/176.4/192 kHz

Audio word size 16 bits/24 bits

Channel count 2 ch

■ WIRELESS RECEIVER SECTION

Wireless module

Frequency range 2.4034 GHz to 2.47735 GHz

No. of channels 38

■ AMPLIFIER SECTION

RMS output power

Front Ch 40 W per channel (4 Ω), 1 kHz, 10 % THD

Total RMS power 40 W



■ SPEAKER SYSTEM SECTION

Speaker unit

Full range

8 cm cone type×1

Impedance

4 Ω



- Specifications are subject to change without notice.
- Mass and dimensions are approximate.
- Total harmonic distortion is measured by a digital spectrum analyzer.
- ※1 Network standby inactive
- ※2 When the display is off
- ※3 Uncompressed FLAC files may not operate correctly.



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http://panasonic.jp/support/global/cs/audio/oss/all8_3_1c.html

At least three (3) years from delivery of this product, Panasonic will give to any third party who contacts us at the contact information provided below, for a charge no more than our cost of physically performing source code distribution, a complete machine-readable copy of the corresponding source code covered under GPL V2.0, LGPL V2.1 or the other licenses with the obligation to do so, as well as the respective copyright notice thereof.

Contact Information: oss-cd-request@gg.jp.panasonic.com

The source code and the copyright notice are also available for free in our website below.

<http://panasonic.net/avc/oss/>



FLAC Decoder

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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.

Manufactured by: Panasonic Corporation
Kadoma, Osaka, Japan
Importer for Europe: Panasonic Marketing Europe GmbH
Panasonic Testing Centre
Winsbergring 15, 22525 Hamburg, Germany

Panasonic Corporation

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