

## Personal Audio System

Reference Guide

## Sistema de audio personal

Guía de referencia



SRS-X33

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English

Personal Audio System

Before operating the system, please read this guide thoroughly and retain it for future reference.

**WARNING**

**To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.**

To reduce the risk of fire, do not cover the ventilation opening of the apparatus with newspapers, tablecloths, curtains, etc.  
Do not place the naked flame sources such as lighted candles on the apparatus.  
To reduce the risk of fire or electric shock, do not expose this apparatus to dripping or splashing, and do not place objects filled with liquids, such as vases, on the apparatus.  
Do not install the appliance in a confined space, such as a bookcase or built-in cabinet.  
Do not expose the batteries (battery pack or batteries installed) to excessive heat such as sunshine, fire or the like for a long time.  
As the main plug of the USB AC adaptor is used to disconnect the USB AC adaptor from the mains, connect it to an easily accessible AC outlet. Should you notice an abnormality in it, disconnect it from AC outlet immediately.  
The unit is not disconnected from the AC power source (mains) as long as it is connected to the wall outlet, even if the unit itself has been turned off.

If your skin touches the USB AC adaptor or this product for a long time when the power is on, it may cause a low temperature injury.

**Precautions****Note when using with a mobile phone**

- For details on operation of your mobile phone when receiving a telephone call while transmitting the sound using the BLUETOOTH connection, refer to the operating instructions supplied with the mobile phone.

**On safety**

The nameplate and important information concerning safety are located on the bottom exterior of the main unit and on the surface of the USB AC adaptor.

- Before operating the system, be sure that the operating voltage of the system is identical with that of your local power supply.

**Where purchased****Operating voltage**

All countries/regions	100 V - 240 V AC, 50 Hz/60 Hz
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**Notes on the USB AC adaptor**

- When connecting or disconnecting the USB AC adaptor, turn off the system beforehand. Otherwise, it may cause malfunction.
- Use only the supplied USB AC adaptor and micro-USB cable. To avoid damaging the system, do not use any other USB AC adaptor.



Polarity of the USB port of the USB AC adaptor

- Plug the USB AC adaptor into a nearby wall outlet (mains). In the case of a problem, unplug it from the wall outlet (mains) immediately.
- Do not install the USB AC adaptor in a confined space, such as a bookcase or built-in cabinet.
- To reduce the risk of fire or electric shock, do not expose the USB AC adaptor to dripping or splashing, and do not place objects filled with liquids, such as vases, on the USB AC adaptor.

**On placement**

- Do not set the speaker in an inclined position.
- Do not leave the system in a location near heat sources, or in a place subject to direct sunlight, excessive dust, moisture, rain or mechanical shock.

**On operation**

- Do not insert any small objects, etc., into the jacks or ventilation hole on the rear of the system. The system may short out or malfunction.

**On cleaning**

- Do not use alcohol, benzene, or thinner to clean the cabinet.

**Others**

- If you have any questions or problems concerning this system that are not covered in this manual, please consult your nearest Sony dealer.

**On Copyrights**

- The BLUETOOTH® word mark and logos are owned by the Bluetooth SIG, Inc. and any use of such marks by Sony Corporation is under license.
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**What is BLUETOOTH wireless technology?**

BLUETOOTH wireless technology is a short-range wireless technology that enables wireless data communication between digital devices, such as a computer and digital camera. BLUETOOTH wireless technology operates within a range of about 10 m.  
Connecting two devices as necessary is common, but some devices can be connected to multiple devices at the same time.

You do not need to use a cable for connection, nor is it necessary for the devices to face one another, such is the case with infrared technology. For example, you can use such a device in a bag or pocket.

BLUETOOTH standard is an international standard supported by thousands of companies all over the world, and employed by various companies worldwide.

**Maximum communication range**

Maximum communication range may shorten under the following conditions.

- There is an obstacle such as a person, metal, or wall between the system and BLUETOOTH device.
- A wireless LAN device is in use near the system.
- A microwave oven is in use near the system.
- A device that generates electromagnetic radiation is in use near the system.

**Interference from other devices**

Because BLUETOOTH devices and wireless LAN (IEEE802.11b/g) use the same frequency, microwave interference may occur and resulting in communication speed deterioration, noise, or invalid connection if the system is used near a wireless LAN device. In such a case, perform the following.

- Use the system at least 10 m away from the wireless LAN device.
- If the system is used within 10 m of a wireless LAN device, turn off the wireless LAN device.

**Interference to other devices**

Microwaves emitting from a BLUETOOTH device may affect the operation of electronic medical devices. Turn off the system and other BLUETOOTH devices in the following locations, as it may cause an accident.

- where inflammable gas is present, in a hospital, train, airplane, or a gas station
- near automatic doors or a fire alarm

**Notes**

- To be able to use the BLUETOOTH function, the BLUETOOTH device to be connected requires the same profile as the system's.  
Note also that even if the same profile exists, devices may vary in function depending on their specifications.
- Due to the characteristic of BLUETOOTH wireless technology, the sound played on the system is slightly delayed from the sound played on the BLUETOOTH device during talking on the telephone or listening to the music.
- This system supports security capabilities that comply with the BLUETOOTH standard to provide a secure connection when the BLUETOOTH wireless technology is used, but security may not be enough depending on the setting. Be careful when communicating using BLUETOOTH wireless technology.
- We do not take any responsibility for the leakage of information during BLUETOOTH communication.
- A device featuring the BLUETOOTH function is required to conform to the BLUETOOTH standard specified by Bluetooth SIG, and be authenticated. Even if the connected device conforms to the above mentioned BLUETOOTH standard, some devices may not be connected or work correctly, depending on the features or specifications of the device.
- Noise or sound skips may occur depending on the BLUETOOTH device connected with the system, the communication environment or the usage environment.

**Specifications****Speaker section**

Speaker system	Approx. 34 mm dia. × 2
Enclosure type	Passive radiator model

**Amplifier section**

Reference output power

Using USB AC adaptor: 10 W + 10 W (at 10 % harmonic distortion, 1 kHz, 4 Ω)  
Using battery: 10 W + 10 W (at 10 % harmonic distortion, 1 kHz, 4 Ω)

**BLUETOOTH**

Communication System

Communication System	BLUETOOTH Specification version 3.0
Output	BLUETOOTH Specification Power Class 2
Maximum communication range	Line of sight approx. 10 m <sup>*1</sup>
Frequency band	2.4 GHz band (2.4000 GHz - 2.4835 GHz)
Modulation method	FHSS
Compatible BLUETOOTH Profiles <sup>*2</sup>	A2DP (Advanced Audio Distribution Profile) AVRCP (Audio Video Remote Control Profile) HSP (Headset Profile) HFP (Hands-free Profile)
Supported Codec <sup>*3</sup>	SBC <sup>*4</sup> , AAC <sup>*5</sup> , LDAC <sup>*6</sup>
Transmission range (A2DP)	20 Hz - 20,000 Hz (Sampling frequency 44.1 kHz)

<sup>\*1</sup> The actual range will vary depending on factors such as obstacles between devices, magnetic fields around a microwave oven, static electricity, reception sensitivity, aerial's performance, operating system, software application, etc.

<sup>\*2</sup> BLUETOOTH standard profiles indicate the purpose of BLUETOOTH communication between devices.

<sup>\*3</sup> Codec: Audio signal compression and conversion format

<sup>\*4</sup> Subband Codec

<sup>\*5</sup> Advanced Audio Coding

<sup>\*6</sup> LDAC is an audio coding technology developed by Sony that enables the transmission of High-Resolution (Hi-Res) Audio content, even over a BLUETOOTH connection. Unlike other BLUETOOTH compatible coding technologies such as SBC, it operates without any down-conversion of the Hi-Res Audio content<sup>\*7</sup>, and allows approximately three times more data<sup>\*8</sup> than those other technologies to be transmitted over a BLUETOOTH wireless network with unprecedented sound quality, by means of efficient coding and optimized packetization.

<sup>\*7</sup> Excluding DSD format contents.

<sup>\*8</sup> In comparison with SBC (Subband Coding) when the bitrate of 990 kbps (96/48 kHz) or 909 kbps (88.2/44.1 kHz) is selected.

**Microphone**

Type	Electret condenser
Directional characteristic	Omni directional
Effective frequency range	100 Hz - 7,000 Hz

**General**

Input	AUDIO IN jack (ø 3.5 mm stereo mini jack)
Power	DC 5 V 1.5 A (using the supplied USB AC adaptor connected to AC 100 V - 240 V, 50 Hz/60 Hz power supply) or, using built-in lithium-ion battery
Usage life of lithium-ion battery (using the BLUETOOTH connection)	Approx. 12 hours <sup>*9</sup>
Dimensions (including projecting parts and controls)	Approx. 185 mm × 60 mm × 59 mm (w/h/d)
Mass	Approx. 730 g including battery
Supplied accessories	USB AC adaptor (AC-E0515) (1) Plug (2) Micro-USB cable (1) Startup Guide (1) Reference Guide (this document) (1)

<sup>\*9</sup> Time may vary, depending on the temperature or conditions of use.

Design and specifications are subject to change without notice.

