

Petastream S20

Wireless Multiroom Speaker

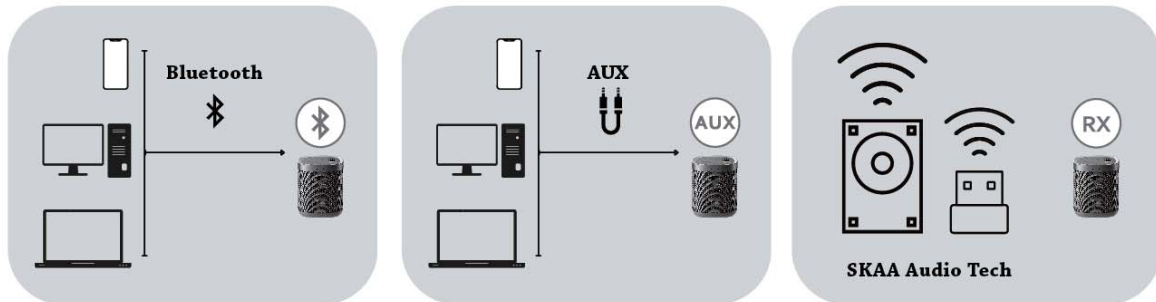
User Manual



Standalone Speaker

S20 x 1

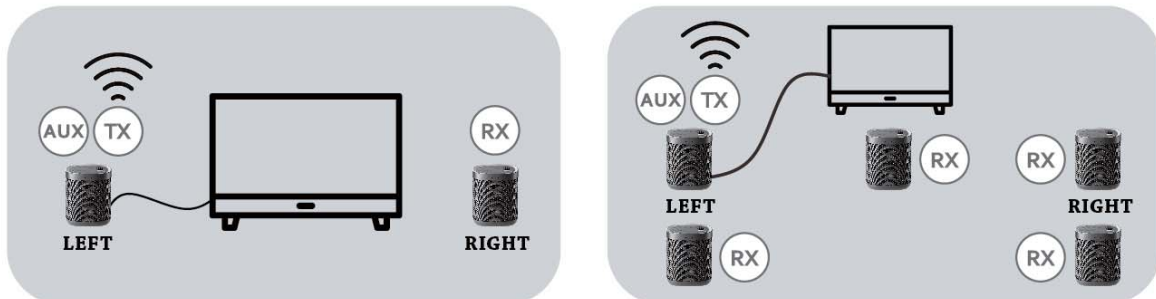
Each S20 speaker allows for audio input through Bluetooth, AUX, or SKAA.



Stereo Sound for TV

S20 x 2+

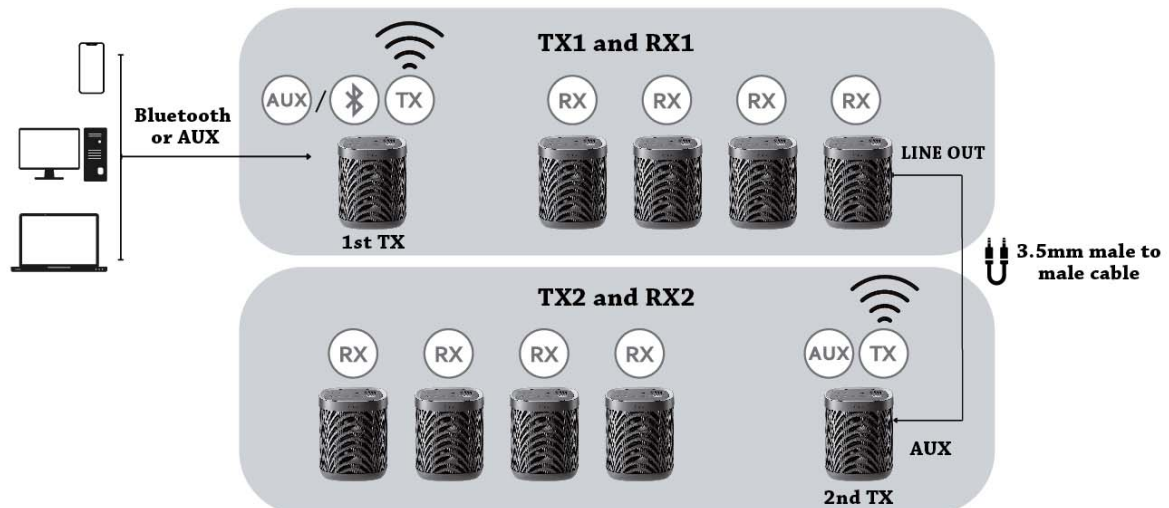
Set up two or more S20 speakers as left and right channels.



Connect to more S20 Speakers

S20 x 5+

Ingeniously use AUX and TX/RX to connect more S20 speakers.



Connect S20 Speaker to other SKAA-enabled Devices

S20 x 1+

The S20 speaker serves as a transmitter, sending audio to SKAA receiver devices.



Petastream S20 App-free Wireless Multiroom Speaker User Manual

Discover the S20 App-free Wireless Multiroom Speaker by Petastream, a revolutionary device engineered to transform your music enjoyment and communication. With its hassle-free setup and intuitive controls, the S20 offers high-quality audio without the need for complex Wi-Fi or apps.

Experience boundless music through seamless Bluetooth and SKAA Wireless Technology connections. This versatile speaker adapts to your needs, ensuring compatibility and effortless audio enjoyment in any setting.

More than a speaker, the S20 integrates advanced audio with intercom technology, ideal for expansive spaces. Its built-in 900MHz intercom provides clear, reliable communication, surpassing traditional walkie-talkies in clarity and privacy.

Please take a moment to read through this manual. We've designed it to help you make the most of your speaker and ensure a seamless experience.

Thank you for choosing Petastream. We're excited to accompany you on this exciting journey, elevating your experience with every note and word.

Product Features

- **High-Quality Audio:** Built-in dual 15W speakers deliver clear and balanced stereo sound with minimal distortion.
- **Versatile Connectivity:** Supports Bluetooth 5.0, AUX-in, and SKAA audio transmission protocol for easy and quick music network setup.
- **Multi-Device Synchronization:** Sync up to 5 devices simultaneously for music playback without delay.
- **Extended Range:** Offers a transmission range of up to 180 meters (590 feet) in open areas and 20~30 meters (65~98 feet) in typical indoor conditions.
- **Innovative Communication:** Exclusive patent for audio and intercom with built-in 3-channel functionality for quick communication.

Box Contents

Inside the box, you will find everything you need to begin your journey with the Petastream S20 Speaker:

1 x S20 Speaker Unit
1 x Power Supply
1 x User Manual

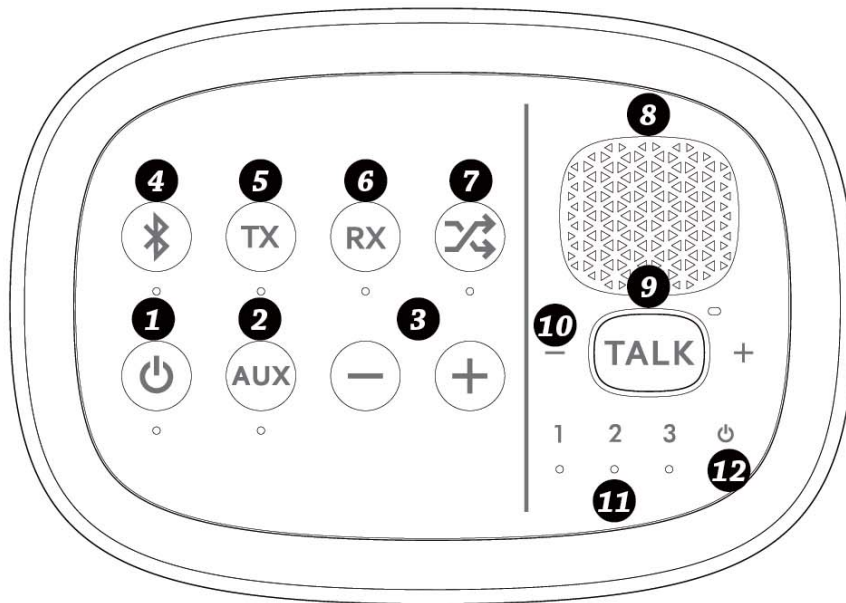
If you happen to discover any missing or incorrect items, please don't hesitate to contact us for assistance. We are here to ensure your satisfaction.

Product Features

- Always refer to and keep all safety and usage instructions.
 - Use the product correctly as per the manual and avoid using it in damp or hazardous environments.
 - Adjust the volume appropriately and avoid prolonged exposure to high volumes to protect your hearing.
 - Place the product on a stable surface to prevent it from tipping and causing potential damage or injury.
 - Keep the product out of children's reach and ensure adult supervision during its use.
 - Use the correct power adapter to prevent voltage issues and damage.
 - Use only power sources that are approved and comply with local regulations.
 - Regularly check and maintain the product for optimal performance and a longer lifespan.
 - The product identification is located at the bottom of the speaker.
 - Do not place open flames, such as lit candles, or heat sources on or near the product.
 - Avoid unauthorized modifications or disassembly of the product.
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Speaker Overview

The Petastream S20 Speaker features a top panel divided into two sections, each with dedicated buttons for audio and intercom functionalities. Below is an overview of each button as per the provided numbering:



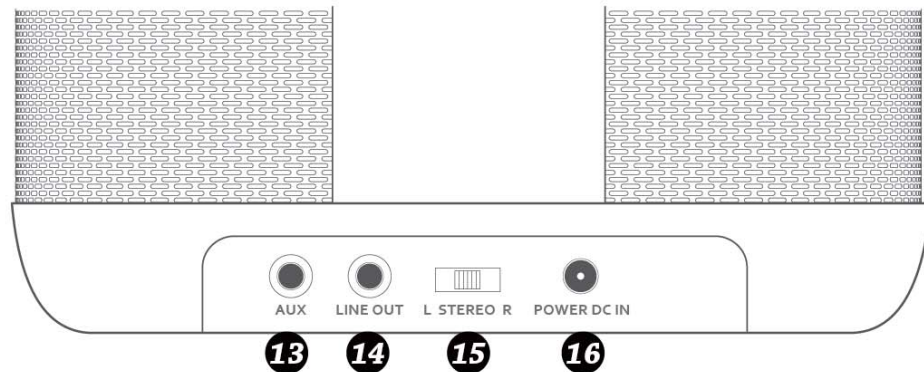
Audio Functions (Left Side)

- 1 Power Switch:** Turns the entire unit (speaker and intercom) on or off.
- 2 AUX Source Button:** Switches to AUX input for audio playback.
- 3 Volume Control Buttons:** Adjusts speaker's music volume.
- 4 Bluetooth Source Button:** Enables connection to the S20 via Bluetooth for music playback. Press and hold for over one second for re-pairing.
- 5 TX (Transmitter) Button:** Allows the speaker to share music with RX (Receiver) units.
- 6 RX (Receiver) Button:** Enables the speaker to receive music shared from TX units.
- 7 Search Button:** Configures the RX (receiver) function. See the Search feature section for detailed information.

Intercom Functions (Right Side)

- 8 Microphone:** Captures audio for the intercom function.
- 9 Intercom Talk Button:** Enables push-to-talk functionality; hold to speak.
- 10 Intercom Volume Button:** Adjusts the volume level for the intercom.
- 11 Channel Selection Button:** Offers 1 to 3 channels for communication.
- 12 Intercom Power Switch:** Controls the power on/off for the intercom function.

Back Panel Functions



- 13 AUX In Port:** A 3.5mm input jack for receiving audio from an AUX source.
 - 14 Line Out Port:** A 3.5mm output jack, providing audio output for connecting to other speakers or devices.
 - 15 Stereo Channel Switch:** Allows you to switch between left, right, and stereo sound options for tailored audio output.
 - 16 Power Input Socket:** A 15V DC input. Use the original manufacturer's power supply for optimal performance.
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Initial Power-Up and Setup

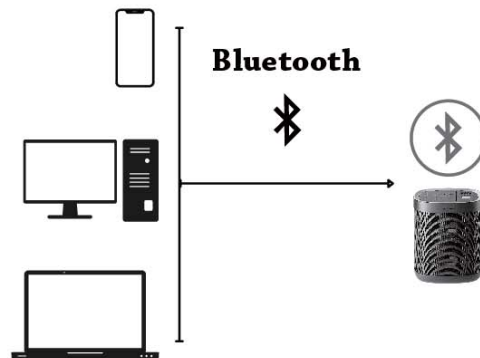
Powering On

1. **Connect Power:** Plug in the speaker. A red LED under the Power Switch (Button 1) indicates standby mode.
2. **Turn On:** Press Power Switch (Button 1) to activate. The LED turns blue, showing the speaker is on.

Selecting Audio Input Method

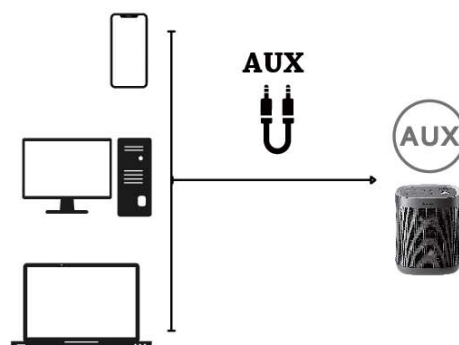
The S20 offers three versatile audio input options: Bluetooth, AUX, and SKAA. It's important to note that each S20 speaker can only select one input method at a time.

Bluetooth Connection



- **Initiating Pairing Mode:** Press the Bluetooth button. The Bluetooth LED will flash rapidly, indicating pairing mode.
- **Connection Confirmation:** Select the S20 ID on your connecting device to pair. Once connected, you will hear a Bluetooth connection sound, and the Bluetooth LED will remain steadily lit.
- **Unique Bluetooth ID:** Each S20 speaker has a distinct Bluetooth device ID, which aids in easy identification and connection on your phone's Bluetooth interface. We recommend noting down this ID from the label on the bottom of the speaker for easy reference.
- **Re-pairing:** If already connected, pressing and holding the Bluetooth button for more than one second will re-enter the speaker into pairing mode to change the connected device.

AUX Connection



- **Activating AUX Mode:** Press the AUX button. The AUX LED will light up steadily.
- **Connecting Your Device:** Use a commercially available 3.5 mm audio cable to connect your external device. Ensure it is securely inserted into the AUX-in port located at the bottom of the speaker's back.

SKAA Connection



- **Setting as Receiver:** Press the RX button to set the speaker as a receiver and ensure there is a nearby TX (transmitter) speaker to receive the audio source. For more detailed setup information, please refer to the "Multiroom Setup" section.

Multiroom Setup

The Petastream S20 Speaker offers a versatile multiroom audio experience through its TX and RX modes, enabling you to share music across multiple speakers. To use the Multiroom Setup feature, you must have at least two S20 units or use the S20 in conjunction with other SKAA-enabled devices. This setup allows for an expanded and flexible audio experience in various environments.

Here's how to set it up:

TX Mode (Setting the First Speaker as Transmitter)

1. **Activating SKAA Function:** In a state where Bluetooth or AUX is already connected, press the TX button. The LED below the TX button will light up in blue, indicating that the SKAA function is activated, allowing music to be transmitted to linked RX units.
2. **Connecting Multiple Speakers:** One S20 unit in TX mode can connect to up to four S20 units set as RX receivers, allowing a total of five speakers to play the same music.

Press the TX button again to turn off the SKAA function and use the speaker as a standalone unit.

RX Mode (Setting the Second and Subsequent Speakers as Receivers)

- **Enabling RX Mode:** Press the RX button. The LED will light up in blue, and the LED on the Search button will also illuminate, indicating the device is set as a receiver.
- **Single Audio Source:** Upon entering RX mode, both Bluetooth and AUX connections will automatically disconnect. The S20 will only receive signals from the TX unit.

A single S20 unit cannot be set as both TX and RX simultaneously.

Switching Between Multiple TX Units

In scenarios where multiple TX speakers are within the reception range of a RX speaker, the Search button facilitates switching the receiving TX. Pressing the Search button once or twice on the RX speaker allows it to locate and switch to a different TX source within about three seconds. Users are advised to play different music on each TX speaker, making it easier to discern which TX is currently connected to the RX by the music it plays. For a detailed guide on operating the Search button, please refer to the "Search Button Operations" section.

Search Button Operations

Search mode activates automatically when you enter RX mode.

Search Button	Command	Indicator Meaning
1 Click	Green Mode: Rotate through favorite transmitters (Green List)	(Dim green) = Searching (Flash green) = Next transmitter (Bright green) = Connected
2 Clicks	Amber Mode: Search for new, unknown transmitters (not on Green List) <i>*S20 adds current Amber transmitter to Green List after 30 minutes of listening.</i>	(Dim amber) = Searching (Bright amber) = Connected
3 Clicks	Mute / Unmute: Click again to toggle mute; any other click command will unmute.	(Slow flash in green or red) = Muted
6 Clicks	Factory Reset: Clears Green List and starts over.	(Flash in red) = Reset Done
Hold a few seconds	Add / Delete: Manually add or delete the current transmitter to/from the Green List.	(Bright amber to bright green) = Added (Flash in red) = Deleted

Wired Connection Expansion

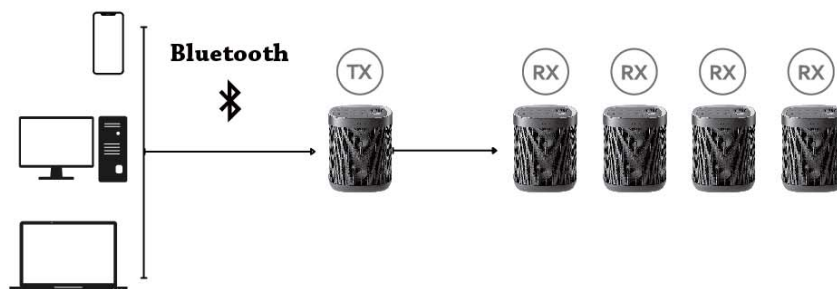
The S20 speaker offers the flexibility to connect multiple speakers using a line-out feature. While it can receive audio from only one source (Bluetooth, AUX, or RX) at a time, it can output through two methods simultaneously. For example, set one S20 as a TX and use a line-out connection with a 3.5mm audio cable to another speaker. This setup enables more than five speakers to play music simultaneously.

Compatibility with Other SKAA Devices

The S20 speaker is compatible with various devices using SKAA wireless technology. It can function as either a transmitter to send signals to other SKAA devices or as a receiver to accept signals from them. Compatible SKAA devices include but are not limited to SKAA speakers, stand-alone SKAA senders or receivers, and SKAA dongles/converters.

Multiroom Speaker Quick Setup

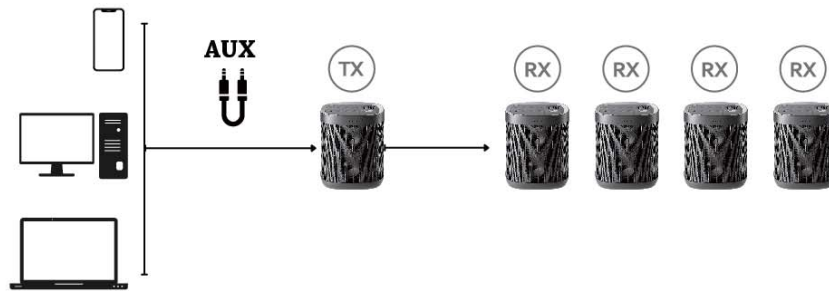
Setup 1: Bluetooth Input with TX/RX Mode



Setting up the S20 in "Bluetooth Input with TX/RX Mode" involves these steps:

1. Preparation: You'll need at least two S20 units and a Bluetooth-enabled audio device (like a smartphone, laptop, or tablet).
2. Setting up TX (Transmitter): Power on the first S20, press the Bluetooth button, and pair it with your audio device via Bluetooth.
3. Activating TX Mode: Press the TX button on the first S20's panel, and the TX light will illuminate.
4. Setting up Other S20s as RX (Receivers): Power on another S20, press the RX button, and both the RX and Search Button lights will turn on. The RX will automatically search for a nearby TX and sync to play the same music.

Setup 2: AUX Input with TX/RX Mode

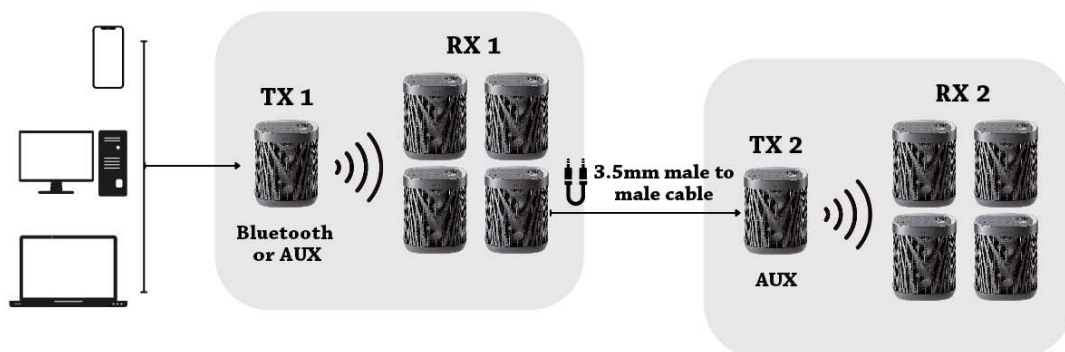


Setting up the S20 in "AUX Input with TX/RX Mode" involves these steps:

1. Preparation: Two or more S20 units, an audio device with AUX output, and a 3.5mm Male to Male Stereo Jack Speaker Cable.
2. Setting up TX (Transmitter): Turn on the first S20, press the AUX button, connect it to the audio device with the AUX cable.
3. Activating TX Mode: Press the TX button on the first S20; the TX light will turn on.
4. Setting up RX (Receivers): Power on another S20, press the RX button, and both RX and Search Button lights will illuminate. RX will search for a nearby TX to sync music

Setup 3: Ingeniously Using AUX and SKAA to Connect More S20 Speakers

This setup demonstrates expanding your multiroom speaker system by creatively using AUX and SKAA connections.



The diagram shows how one of the RX units in the first multiroom speaker group uses its LINE OUT to feed the audio into another S20. This second S20, receiving the AUX audio, is then set as a TX to establish a new, separate multiroom speaker group. This technique allows for even larger and more versatile audio setups.

Switching Channels (Audio Channel Configuration)

The Petastream S20 Speaker offers versatile audio channel settings, allowing users to choose between stereo, left, or right sound channels. This is easily configured using the Channel Switch (Button 15). Whether you prefer the immersive experience of stereo sound or the specific orientation of left or right channels, this feature enhances your audio experience. Please note, this feature only affects the speakers of that particular S20 unit and does not influence its output or intercom functionality.

Intercom Functionality

The Petastream S20 Speaker is equipped with a sophisticated intercom system, allowing for clear, reliable communication across different rooms or areas. This system is ideal for both home and business environments, providing an effective way to communicate without needing to be in the same room.

Using the Intercom

- **Powering On:** Ensure the speaker is turned on using the Power Switch (Button 1).
- **Activating the Intercom:** Press the Intercom Power Switch (Button 12) to activate the intercom function.
- **Speaking:** Press and hold the Intercom Talk Button (Button 9) to speak. The microphone (Button 8) captures your voice clearly.
- **Adjusting Volume:** Use the Intercom Volume Button (Button 10) to adjust the volume level of the intercom.
- **Selecting Channels:** Use the Channel Selection Button (Button 11) to choose between 1 to 3 channels. Speakers on the same channel can send and receive communications.
- **Power Off:** To prevent the intercom from interrupting music playback, you can choose to turn off the intercom power using the Intercom Power Switch (Button 12).

Reducing Intercom Echo

This guide offers straightforward steps to minimize or eliminate echo, ensuring clear communication between the S20 speakers. Follow these instructions to optimize your intercom experience.

1. Place both intercoms in their intended location. Because distance affects echo levels, it's recommended to place the intercoms in their intended use locations to address the issue.
2. Increase the volume on both intercoms to maximum so you can hear the conversation from the other unit; it's okay if there's echo at this stage.
3. On the talking intercom (TALK SIDE), press and hold the TALK button to check for echo on the listening intercom (LISTEN SIDE).
4. If there's echo on LISTEN SIDE, release the TALK button on TALK SIDE and lower the volume on LISTEN SIDE by pressing the volume down button two or three times.
5. Press the TALK button on the TALK SIDE again to check for echo on the LISTEN SIDE.
6. If echo persists on the LISTEN SIDE, repeat steps 3 to 5: releasing the TALK button on the TALK SIDE and adjusting the volume on the LISTEN SIDE, until the echo is eliminated.

Troubleshooting

Issue	Cause	Solution
Speaker Issues		
S20 Won't Power On	Power connector not properly installed.	Ensure the power plug is correctly installed and use the original adapter.
	Power switch not turned on.	Red indicates standby mode; press the switch until the blue light for power on appears.
Cannot Find Bluetooth	Bluetooth not selected as input.	Check the control panel and press the Bluetooth button to enter pairing mode.
	S20 automatically connected to a previous device.	Long press the Bluetooth button for more than a second; release after the blue light starts flashing to re-pair.
No Sound Playing with AUX Input	AUX not selected as input.	Check the control panel and press the AUX button to select AUX input.
	Audio cable not properly connected.	Ensure the cable is correctly inserted and that the audio source is provided.
RX Unit Can't Connect to TX	TX not set on the master unit.	Confirm and press the "TX" button on the control panel.
	RX setup not complete.	Confirm and press the "RX" button on the control panel, and refer to the manual for pairing.
No Sound from Headphones Connected to LINE OUT	S20 LINE OUT does not support wired headphones.	To connect to LINE OUT, please choose devices with active speakers.
Intercom Issues		
Intercom Not Responding	Intercom switch not turned on.	The intercom is independently designed; ensure the switch is on for use.
No Response When Pressing Intercom Button	Channel setting incorrect.	Ensure both the master and sub-intercom units are on the same channel.
Echo When Using Intercom	Two S20 units too close.	Adjust the distance between the two S20 devices to improve. Refer to "Reducing Intercom Echo" to adjust.
	Receiver S20 intercom speaker volume too high.	Adjust the receiver S20 volume to improve. Refer to "Reducing Intercom Echo" to adjust.

Product Specifications

- Audio Channels: Stereo
- Total Output Power: 40 Watts
- Speaker Drivers: Dual 3-inch, 15W each
- Input Interfaces: Bluetooth 5.0, 3.5mm AUX Stereo Input
- Wireless Connectivity: 2.4GHz, SKAA protocol compatible
- Output Interface: 3.5mm Stereo Line Out
- Frequency Response: 80Hz to 20kHz
- Total Harmonic Distortion (THD): 0.15%
- Operating Temperature: 32° to 113° F (0° to 45° C)
- Storage Temperature: -13° to 158° F (-25° to 70° C)
- Dimensions: 22 x 17 x 12 cm / 8.6 x 6.7 x 4.7 inches
- Weight: 1.9 Kg / 4.18 lbs
- Color: Black
- Intercom Range: Up to 180 meters / 590 feet in open areas
- Intercom Channels: CH 1 to CH 3
- Power Input: 15V DC
- Power Supply: 100-240VAC, 50/60Hz; Output: 15VDC, 3A, 45W

For more information about our products, visit our website and contact us.

Website: www.petastream.co

Customer Service Email: info@petastream.co

Made in Taiwan

Manufacturer: edisk technology Ltd.

Manufacturer Address: 2F., No. 2, Sec. 6, Roosevelt Rd., Wenshan Dist.,
Taipei City 116052, Taiwan (R.O.C.)

FCC Statement:

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) this device

must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20cm between the radiator & your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.