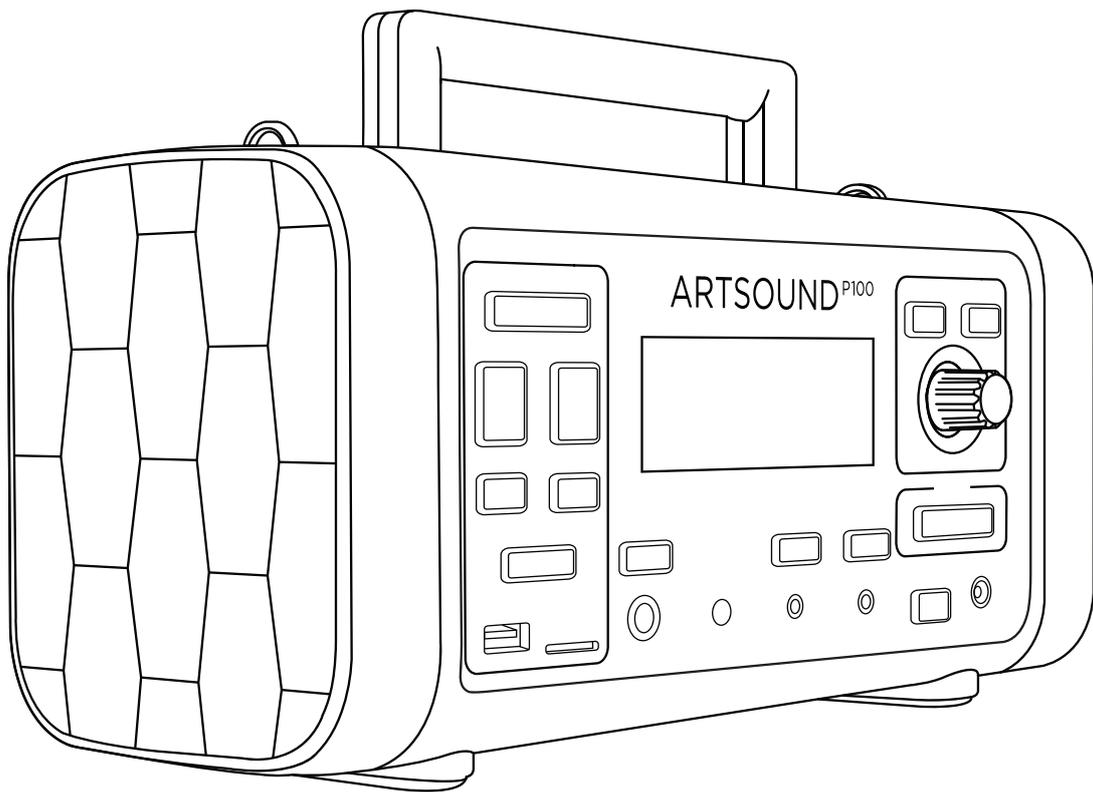


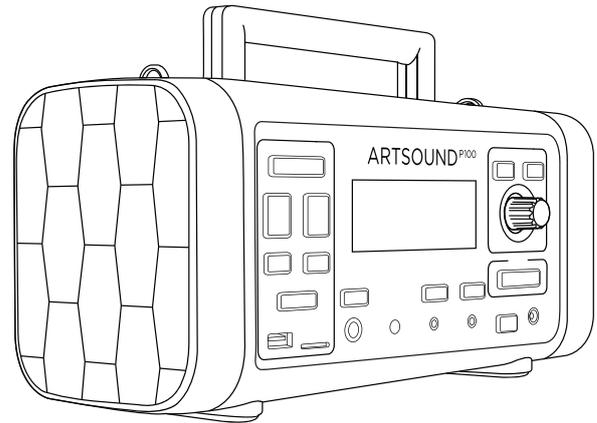
ARTSOUND P100



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ARTSOUND is proud to introduce the P100 Personal Broadcasting System. This portable amplifier (PA) is a professional personal loudspeaker system with a built-in multi-functional music player, 5 independent audio source mixer and enough power to reach an audience up to 50 people. The PA incorporates a Dual Core 1.0 GHz CPU system and its outdoor readable, monochrome display, allow you to control and manage your broadcasting experience. The feature rich information display is accompanied by a single (1) true-diversity UHF microphone receiver, Bluetooth audio, analog microphone input, auxiliary inputs, as well as line-output connection. You can connect your media via both USB or MicroSD simultaneously. The high-bitrate music player can also record your broadcasting sessions directly to MP3 format. The quick-exchangable, removable battery pack, ensures you'll have enough autonomous time throughout the day. The integrated Microphone Stand Mount allows you to raise your sound to make the most impact to your audience.



Thank you for choosing ARTSOUND!

To ensure proper operation, please carefully read this owner's manual and safety instruction before using the product. After reading this manual, be sure to keep it for future reference.

Should you have any questions about your new device please contact support at:
<https://www.artsound.com.cn/support>

Every ARTSOUND P-Series products incorporate true-diversity wireless technology. The UHF Receiver is accompanied by 2 independent RF receivers (2 antennas in total). This ensures the wireless link between the microphone stays stably connected to the PA system. You will be able to monitor the reception strength and battery level of the companion M20 Microphone.

Trademark Notice



The Bluetooth® word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by ARTSOUND is under license.

ARTSOUND

The ARTSOUND® word mark and logos are registered trademarks owned by Artsound International Development Co., Limited.

All rights reserved

Key Product Features

- 
50 Audience
- Suitable for Audiances up to (50) people

- 
Diversity Antenna
- Single (1) Channel, True-Diversity Antenna Technology

- 
40 Watts
- 40W Class-D Professional Audio Amplifier

- 
Microphone
- Single (1) M20 Ergonomic Aluminum UHF Microphone

- 
Music Player
- Integrated Music Player

- 
MP3 REC
- Record Live Sessions Directly to MP3

- 
10Hrs
- Exchangable Battery with (10hrs) Playtime

- 
Alarm
- Programmable Siren/Alarm/Alert Sound Effects Button

- 
Voice Enhancer
- Adjustable Voice Reverberation Enhancer

- 
Mic In
- 1/4" Analog Microphone Input

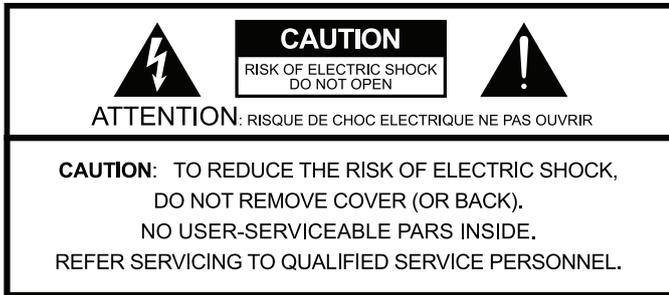
- 
3.5mm In/Out
- 3.5mm Auxilary Input & Output

- 
Bluetooth
- Bluetooth 5.3 Streaming Audio

- 
USB
- USB 2.0 Removable Media Port

- 
Micro SD
- MicroSD Removable Media Port

- 
Stand Adapter
- 5/8" Integrated Tripod Stand Adapter
**Tripod Sold Separately

IMPORTANT SAFETY INSTRUCTIONS

This symbol alerts the user to the presence of recommendations about the product's use and maintenance.



The lightning flash with arrowhead symbol within an equilateral triangle is intended to alert the user to the presence of uninsulated, dangerous voltage within the product enclosure that may be of magnitude to constitute a risk of electrical shock.



WARNING! This product contains magnetic material. Contact your physician if you have questions on whether this might affect the operation of your implantable medical device



This symbol indicates safe use in non-tropical climatic conditions.



For indoor use only
This electrical equipment is designed primarily for indoor use.



WEEE
Please dispose of this product at the end of its operational lifetime by bringing it to your local collection point or recycling center for such equipment.

- **WARNING:** Only use attachments/accessories specified or provided by the manufacturer (such as the exclusive supply adapter, battery, etc.)

General heed and warnings

- Read these instructions.
- Keep these instructions.
- Heed all warnings.
- Follow all instructions.
- Do not use this apparatus near water.
- Clean only with dry cloth.
- Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- Do not defeat the safety purpose of the polarized or grounding plug. A polarized plug has two blades with one wider than the other. A grounding plug has two blades and a third grounding prong. The wide blade or the third prong is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- Protect the power cord from being walked on or pinched particularly at the plugs, convenience receptacles, and at the point where they exit from the apparatus.
- Clean the product only with a soft and dry fabric. Never use liquid cleaning products, as this may damage the products cosmetic surfaces.
- Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart or rack is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
- Unplug the apparatus during lightning storms or when unused for long periods of time.

- Avoid placing the product in a location under direct sunlight or near any appliance that generates UV (Ultra Violet) light, as this may change the product surface finishing and cause a change in color.
- Audio vibrations created by the product may cause other objects to move, ensure that loose objects are not at risk of falling onto the product or persons and cause personal or object damage.
- To prevent possible hearing damage, do not listen at high volume levels for long periods.
- Refer all servicing to qualified personnel. Servicing is required when the apparatus has been damaged in any way, such as power supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
- For PLUGGABLE EQUIPMENT, the Mains power outlet shall be installed near the equipment and shall be easily accessible.
- Please see the bottom of the product for nameplate and electrical rating.
- **CAUTION:** The instructions under Service section are for use by qualified service personnel only. To reduce the risk of electric shock, do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so.
- The maximum ambient operating temperature is 40°C
- The plug of the power supply is used as the disconnect device, the socket-outlet shall be installed near the equipment and shall be easily accessible.

CE Statement

Hereby, Manufacturer (Artsound International Development Co. Ltd), declares that this device is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.

- The plug of the power supply is used as the disconnect device, the socket-outlet shall be installed near the equipment and shall be easily accessible.
- The marking is located on the bottom of the apparatus.
- **CAUTION:** Risk of explosion if the battery is replaced by an incorrect type.
- High or low extreme temperatures that a battery cannot be subjected to during use, storage or transportation and low air pressure at high altitude.
- Replacement of a battery with an incorrect type that can defeat a safeguard.
- Disposal of a battery into fire or a hot oven, or mechanically crushing or cutting of a battery, that can result in an explosion.
- Leaving battery in an extremely high temperature surrounding environment that can result in an explosion or the leakage of flammable liquid or gas.
- A battery subjected to extremely low air pressure that may result in an explosion or the leakage of flammable liquid or gas.

Battery Information

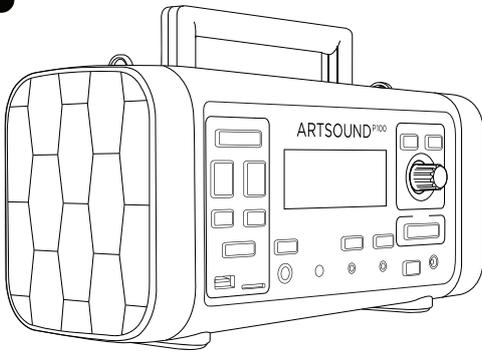
CAUTION: Risk of explosion if the battery is replaced by an incorrect type.
High or low extreme temperatures that a battery cannot be subjected to during use, storage or transportation and low air pressure at high altitude.
Replacement of a battery with an incorrect type that can defeat a safeguard.
Disposal of a battery into fire or a hot oven, or mechanically crushing or cutting of a battery, that can result in an explosion.
Leaving battery in an extremely high temperature surrounding environment that can result in an explosion or the leakage of flammable liquid or gas.
A battery subjected to extremely low air pressure that may result in an explosion or the leakage of flammable liquid or gas.

Unpacking

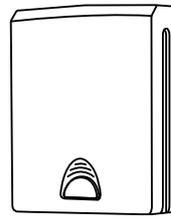
Each P100 is built to the highest standard and thoroughly inspected before leaving the factory. Upon arrival, carefully inspect the packaging. If you find any damage, immediately notify the retailer or shipping company. Check that the following parts are supplied within the package:

- A. ARTSOUND P100 PA Speaker
- B. P100 Battery Pack
- C. M20 Microphone
- D. 18500 Rechargeable Microphone Battery
- E. AC/DC 19VDC Battery Charger
- F. AC Socket Adaptor(s)
- G. Quick Start Guide
- H. Safety & Warranty Information
- I. Shoulder Strap

A



B



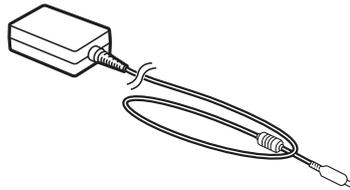
C



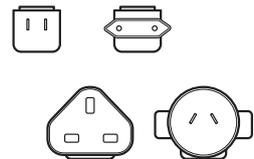
D



E



F



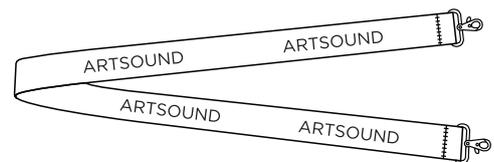
G



H

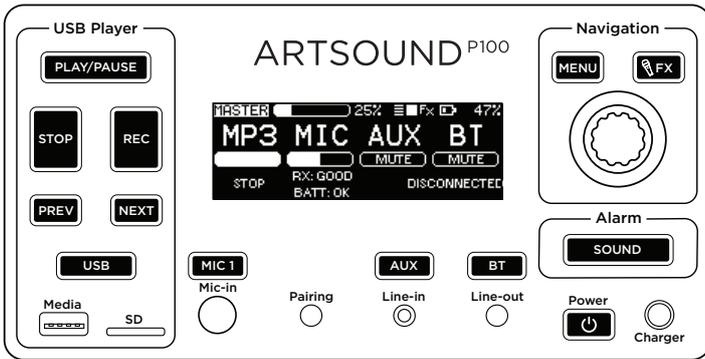


I

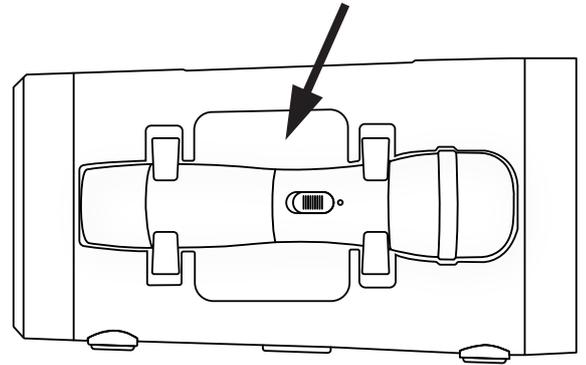


Part Names & Functions

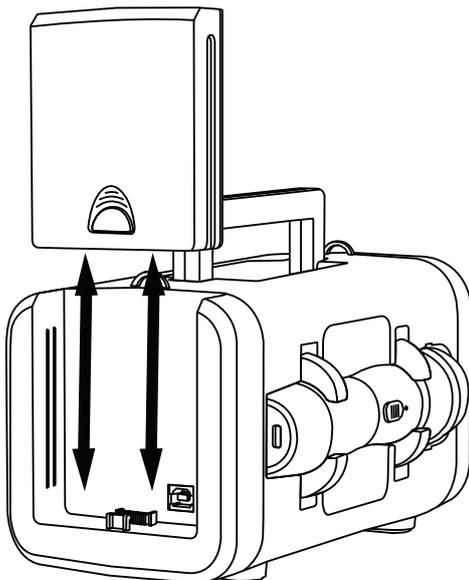
Control Panel



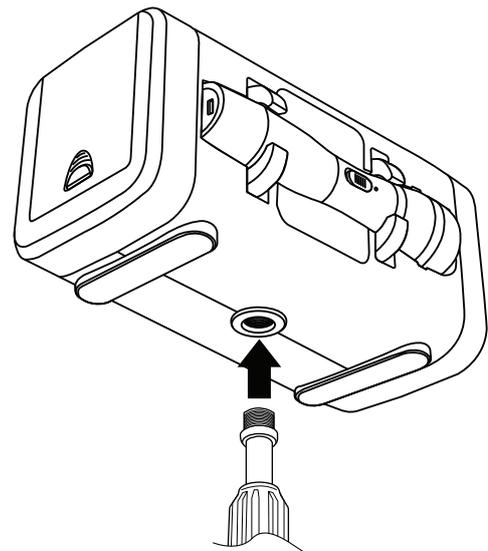
Microphone Holder



P100 Battery



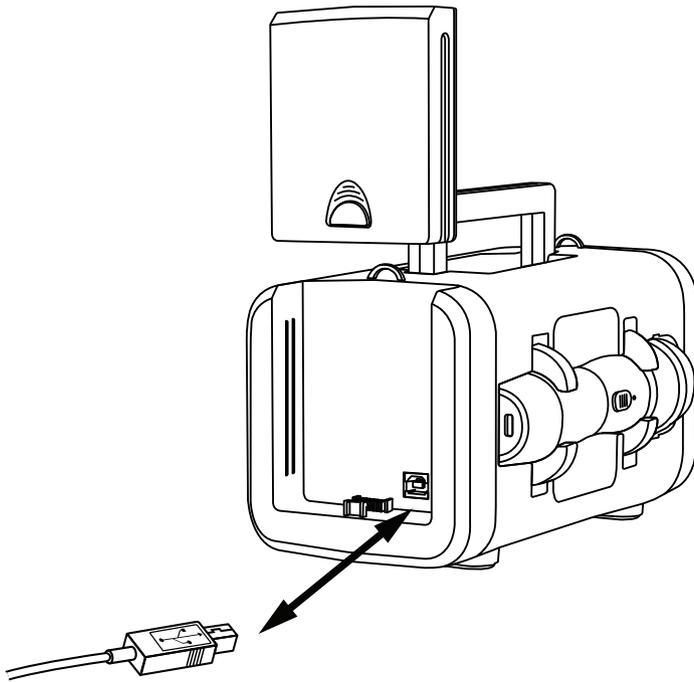
Tripod Mount



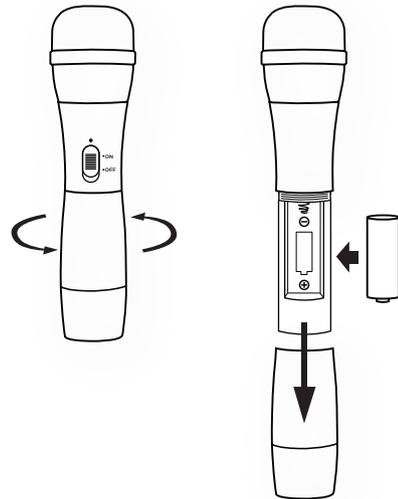
** Tripod sold separately

Part Names & Functions

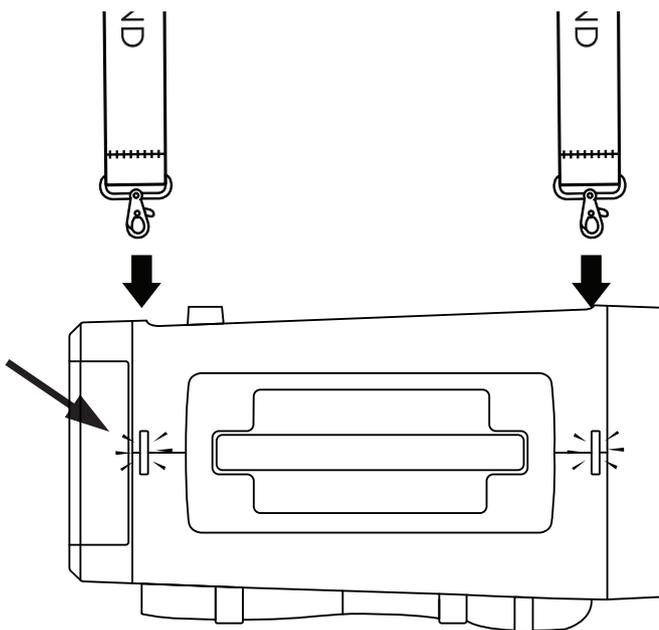
Firmware Update Port



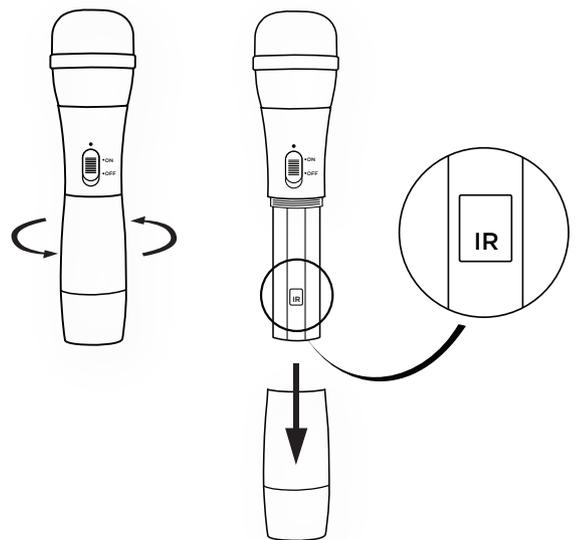
Microphone Battery



Shoulder Strap Clip/Mounts

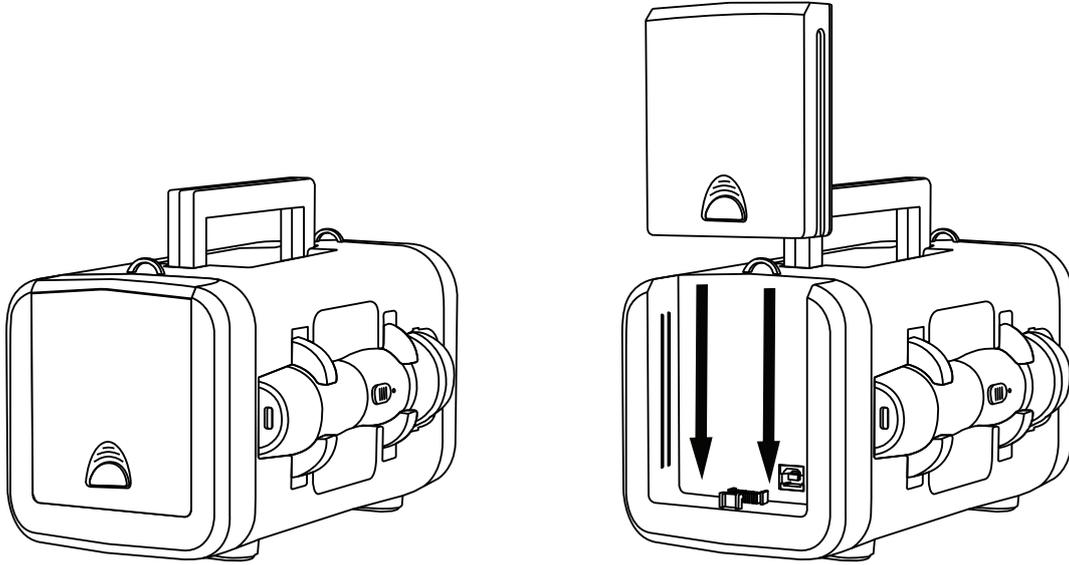


Microphone Pairing Window

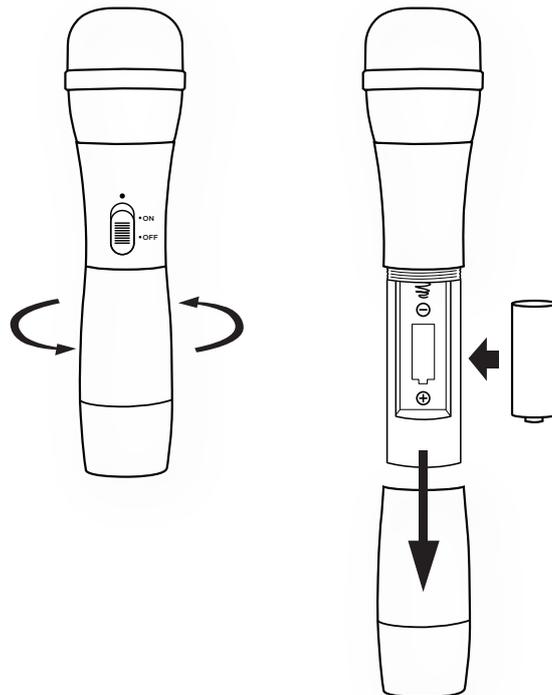


Getting Started

1. Install P100 Battery

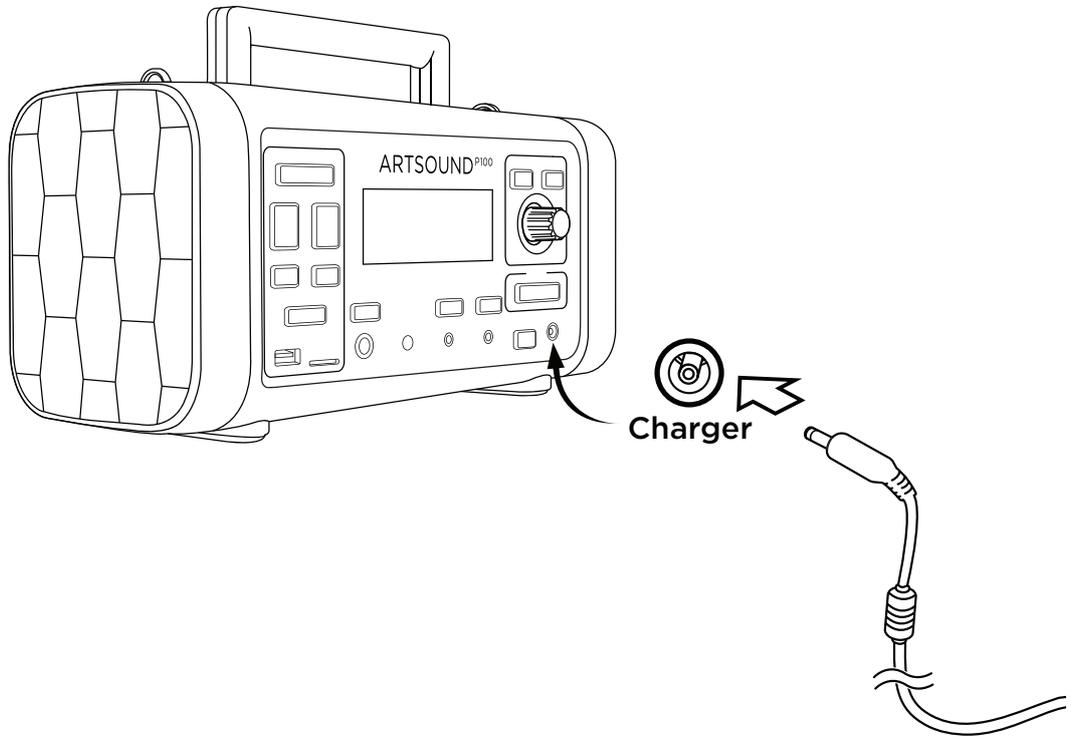


2. Install M20 Battery



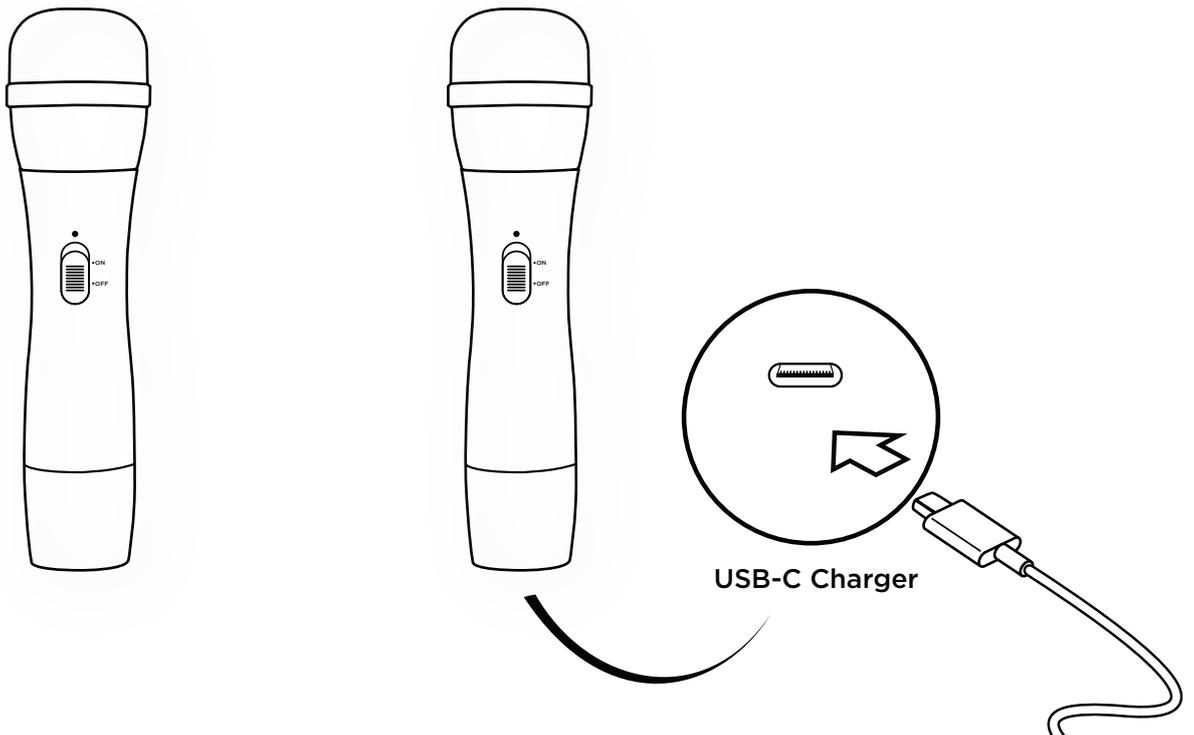
Getting Started

3. Connect P100 Charger



4. Connect M20 Charger

Turn power off

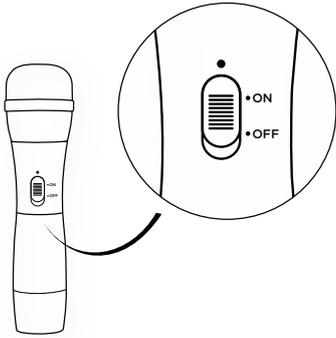


Getting Started

5. Pair the Microphone

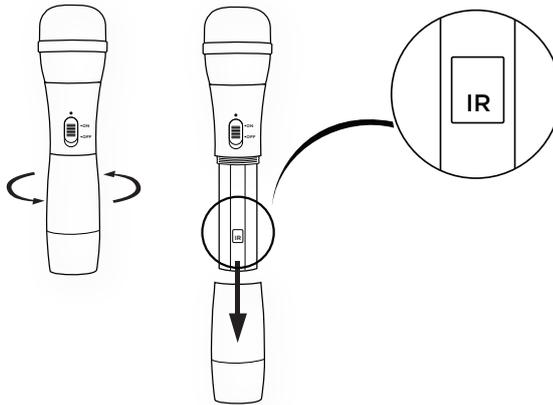
Step 1

Turn Mic power on



Step 2

Remove battery cover



Step 3

Press MENU button



Step 4

<Select "Auto"> for the MIC 1 Channel

MASTER	25%	Fx	47%
RF Region	Mainland China		
Bluetooth	Disconnected		
MIC1 Receiver	Auto		
MIC1 Start Pairing	Disconnected		
Alarm Sound	Air Blast 1s		
Display Brightness	FULL		

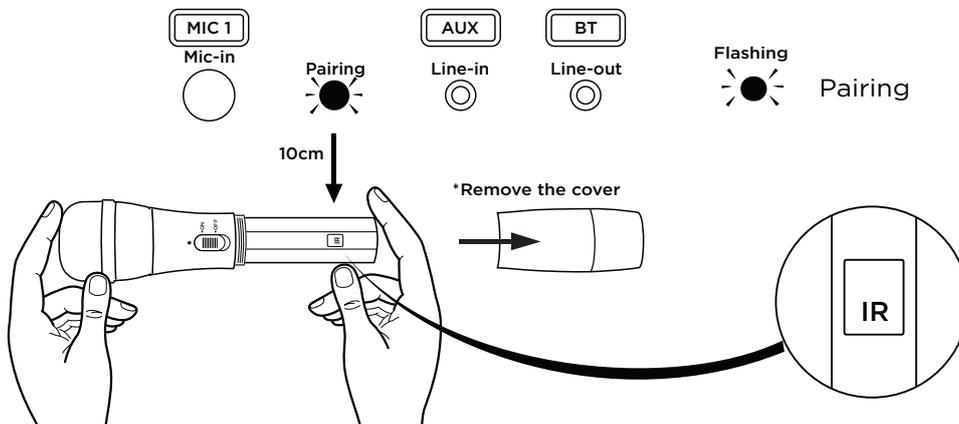
Step 5

<Select "Radio Search"> to Start MIC1 Pairing

MASTER	25%	Fx	47%
RF Region	Mainland China		
Bluetooth	Disconnected		
MIC1 Receiver	Auto		
MIC1 Start Pairing	Radio search..		
Alarm Sound	Air Blast 1s		
Display Brightness	FULL		

Step 6

Shine the Flashing Pairing Light onto the Microphone IR Window

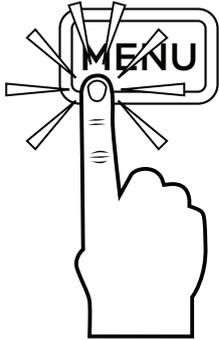


Getting Started

6. Pair the Bluetooth

Step 1

Press MENU button



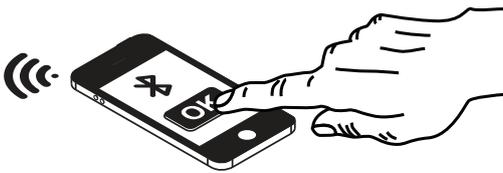
Step 2

<Select "Pair"> in Bluetooth Setting

MASTER	25%	☰	Fx	47%
Language	English			
RF Region	Mainland China			
Bluetooth	Pairing			
MIC1 Receiver	CH1 (655.200MHZ)			
MIC1 Start Pairing	OFF			
Alarm Sound	Air Blast 1s			

Step 3

Pair the Phone to "P100"

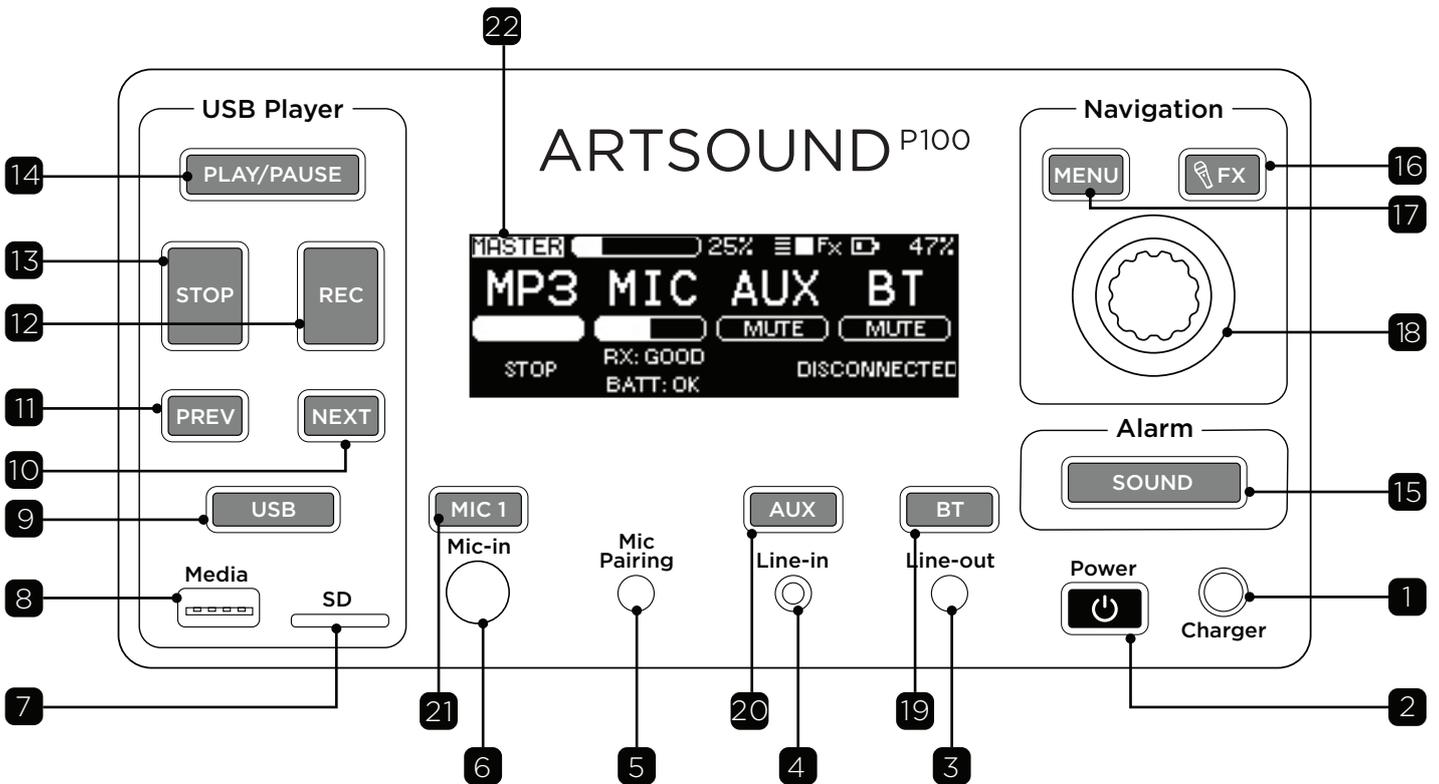


Step 4

Adjust the Bluetooth Source, Volume Level



Control Panel & Information Display



1 DC Charging Port

Connect the 19VDC charger here

2 Power Button

Press for 2s to **Power On/Off** the Speaker

3 Audio 3.5mm Line-Out Port

Provided unbalanced singled-ended audio output to an external companion amplifier

4 Audio 3.5mm Line-In Port

Provides unbalanced, single-ended, mono analog input from an external audio source

5 Microphone Pairing Window

During the Wireless Microphone Pairing Process, point this Blinking Light to the IR receiver Window on the M20 Companion Wireless Microphone

6 1/4 Microphone Port

Connect your wired microphone here.
This Port Volume Control is controlled by AUX Volume Level

7 MicroSD Card Slot

Install SD Card Flash with FAT16/32 or NTFS files system for MP3 Player Record and Playback

8 USB-A Media Port

Install Removable USB Flash with FAT16/32 or NTFS files system for MP3 Player Record and Playback

9 [USB] Media Player Source Button

When pressed, this will toggle between the **Main Menu** and the **Media Player** pages. To edit the **Media Player, Source Volume Level**; long press this button for 3sec

10 NEXT Button

When Pressed, this will go to the **Next Track** in the playlist
Long Pressing this button will toggle between the **Track or Playlist Loop Setting**

11 PREV Button

When Pressed, this will go to the Previous Track in the playlist
Long Pressing this button will return the cursor to the beginning of the playlist

12 REC Button

When Pressed, this will start a new MP3 Recording as long as a removable media is connected to the USB or MicroSD Port and has been properly formatted

Control Panel & Information Display

13 STOP Button

When Pressed, this will stop the MP3 Player Recording or Playback

14 PLAY/PAUSE Button

When Pressed this will toggle the MP3 Player Between Play and Pause of a Track

15 ALARM/SOUND Button

While Pressed, the selected **Alarm Sound** will play

16 FX Button

When Pressed, this Toggles Microphone Effects On/Off
Long Pressing this button enters the **Microphone Effects Menu**

17 MENU Button

When Pressed this Toggles between the **Main Menu** and **Settings Menu**

18 Navigation Rotary Dial

Rotating the Dial **Scrolls Up/Down** lists is the menu screens
Pressing the Dial **Selects/Exits** menus

19 Bluetooth Source Button

When Pressed, this toggles the MUTE of the Bluetooth Source
Long Pressing this button for 3sec enters **Bluetooth Source Level Editing**.

20 AUX Input Button

When Pressed, this toggles the MUTE of the Auxiliary Source
Long Pressing this button for 3sec enters **Auxiliary Source, Volume Level Editing** .

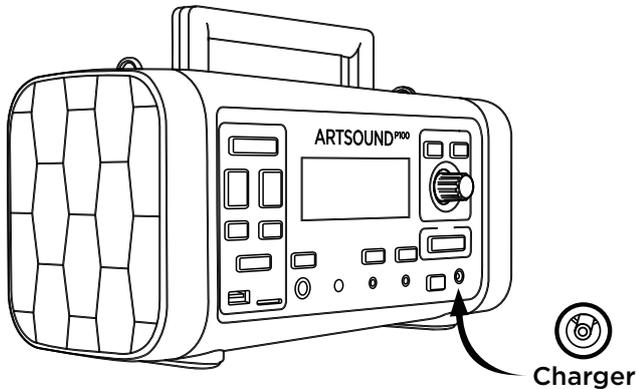
21 MIC 1 Source Button

When pressed, this toggles the MUTE of the Wireless Microphone Source
Long Pressing this button for 3sec enters **Wireless Microphone, Source Volume Level Editing**.

22 192*64 Pixel Backlight Display

The 3" monochrome 192*64 pixel backlight display an intuitive interface between the user and the many audio features of the P100.

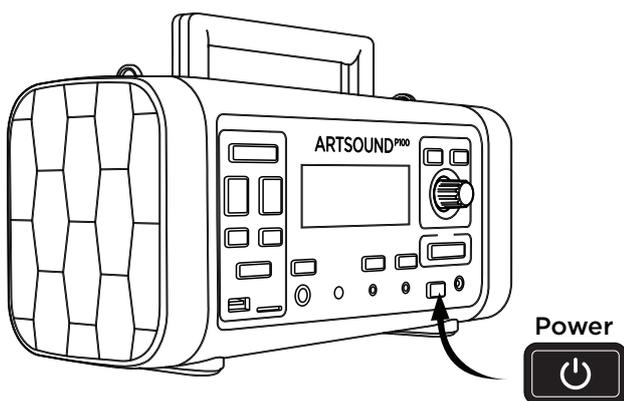
1 DC Charging Port



Port Function

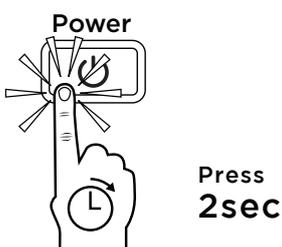
- Connect 19VDC 45-Watt power supply for charging the battery
- P100 can also operate from this power input when the battery is removed

2 Power Button

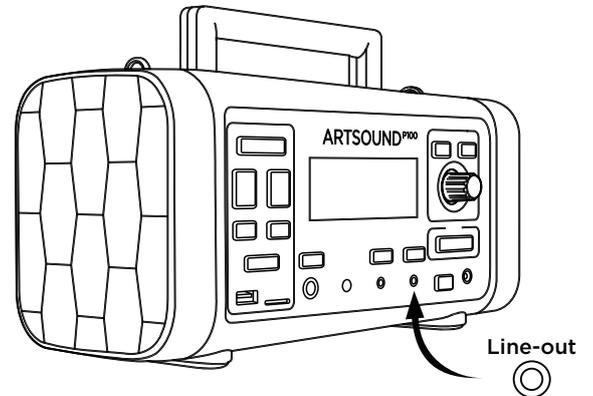


Key Function (pressing action)

- Press 2s to power ON/OFF



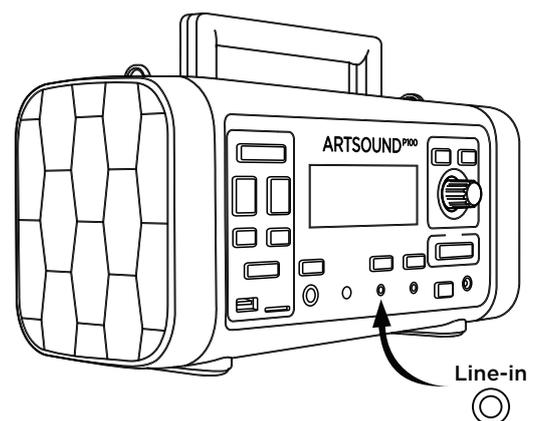
3 Analog 3.5mm Line-Out Port



Port Function

- Provides unbalance singled-ended audio output from the DSP to connect to an external companion power amplifier

4 Analog 3.5mm Line-in Port

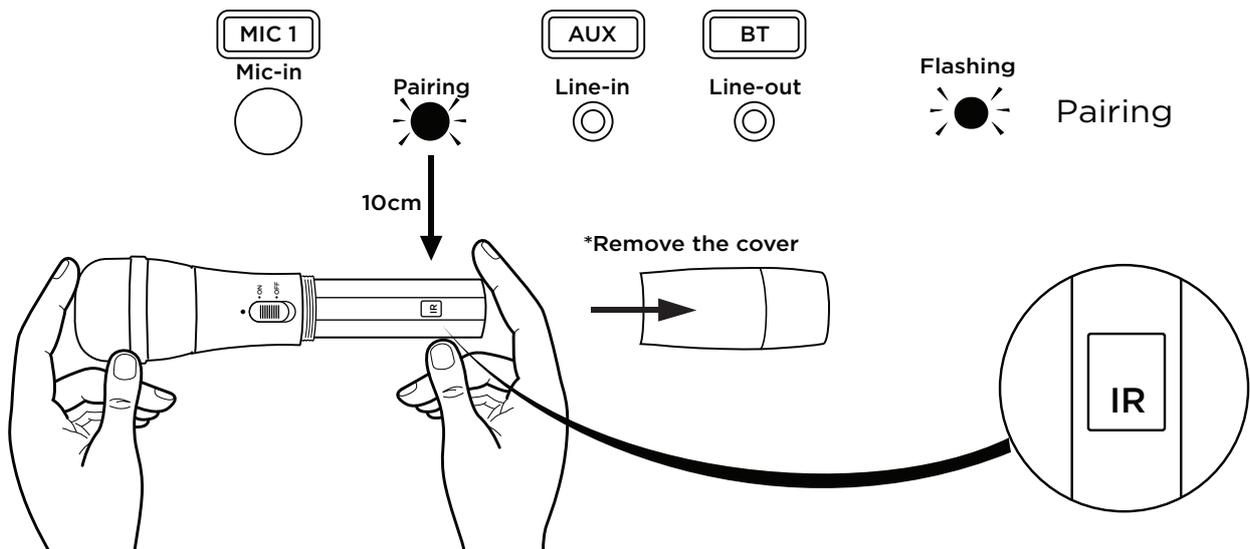
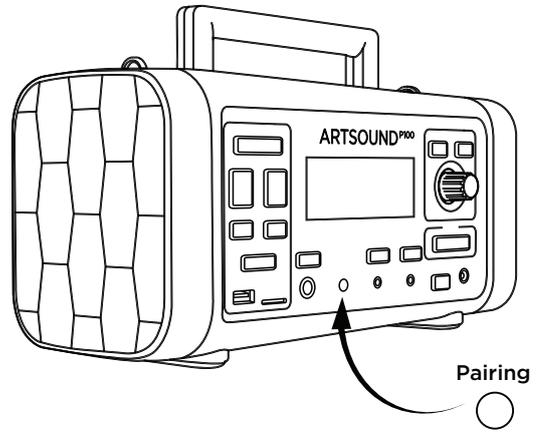


Port Function

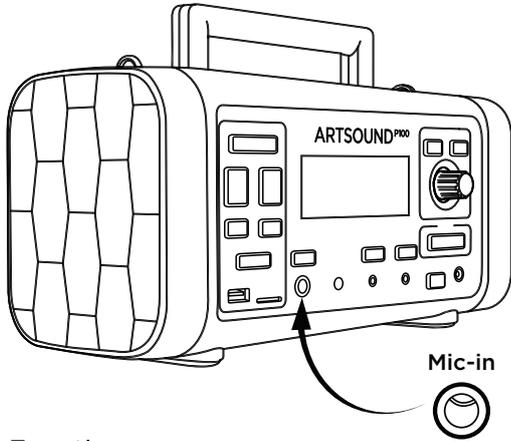
- Provides unbalance singled-ended audio input to the DSP for connecting external analog audio sources.
- Source is controlled by the **AUX Source Volume Level**
- Source is affected by **FX Effects**

5 Microphone Pairing Window

The Microphone Pairing Windows is used to send pairing and configuration data from the P100 to the M20 wireless microphone. When initiating the pairing command in the settings menu, point this blinking light at the IR window located on the M20 Microphone under the battery cover. Light signals will transmit the pairing data. Make sure the window is clear from obstruction during the microphone pairing process. Point the microphone IR receiver window at the blinking light within 10cm. Once pairing was successful, you will notice the wireless microphone status displayed on the main menu. Follow the Microphone Pairing Process for more details.



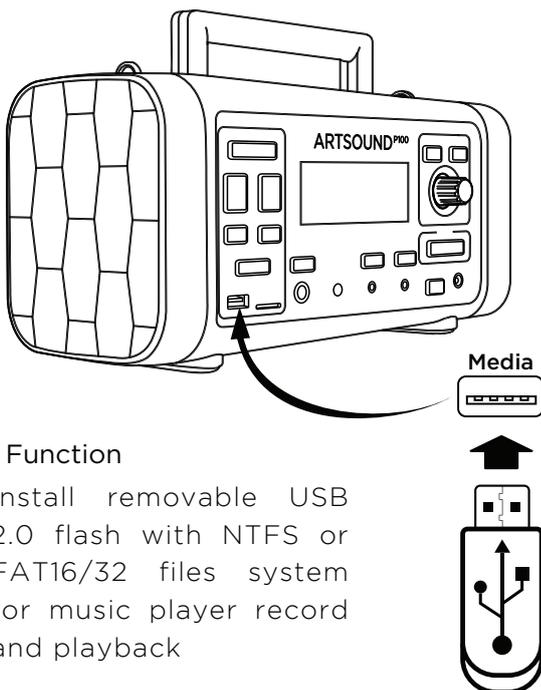
6 External Microphone ¼” Input Port



Port Function

- Provides unbalance singled-ended audio input from an external wired microphone.
- Source is controlled by the **AUX Source Volume Level**
- Source is affected by **FX Effects**

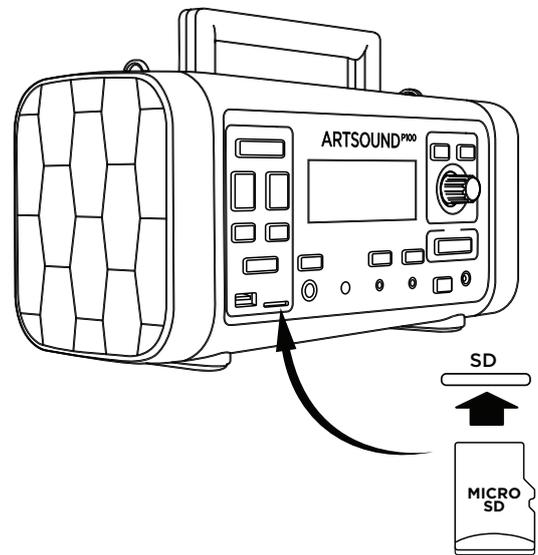
8 USB-A Port



Port Function

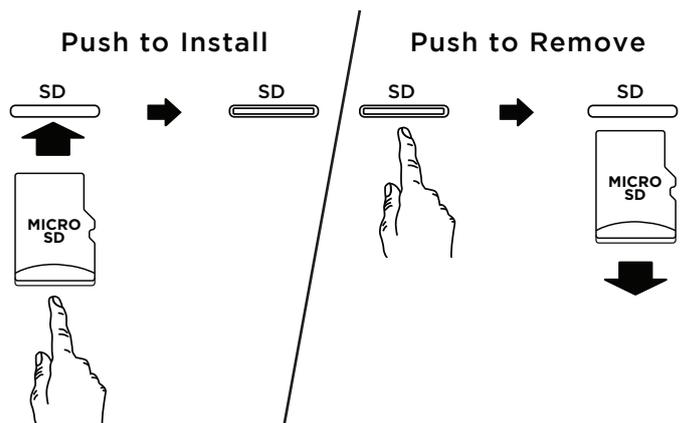
- Install removable USB 2.0 flash with NTFS or FAT16/32 files system for music player record and playback

7 MicroSD Card Slot



Port Function

- Install microSD card flash with NTFS or FAT16/32 files system for music player record and playback.



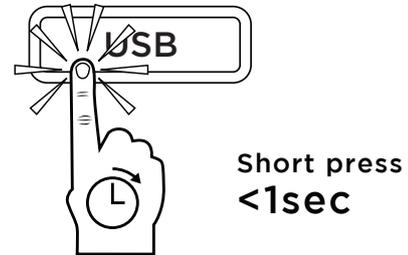
9 [USB] Music Player Source Button

By pressing the music player source button you will be taken to the music player screen where you can preview and select tracks in the music player playlist. The volume of this source can be edited / adjusted by long pressing the key. This button does not have a quick mute/unmute function. See the **Music Player Section** for more details.

Key Function (pressing action)

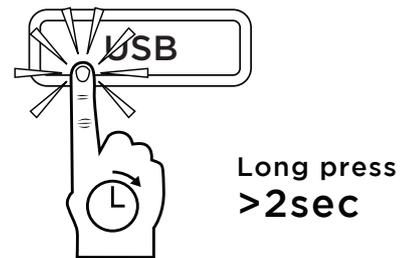
- Short Press <1s: toggles between **Music Player Screen** and the **Main Menu**
- Long Press >2s: edit **Music Player Volume Level**

Toggles between Music Player & Main Menu



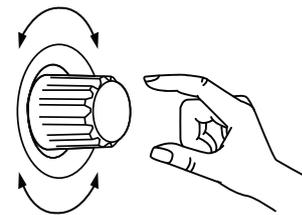
Edit/Adjust Music Player Volume Level

Step 1

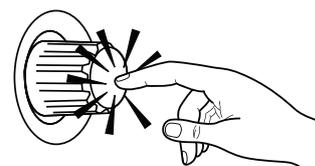


Step 2

Adjust Volume Level



Press to Save



10 [NEXT] Next Track Button

While a track is currently being played in the music player, pressing the next [NEXT] track button will cause the music player to go to the next track in the playlist. If the button is continuously held for 2 seconds it will change the playback loop type. It will toggle the player between continuous consecutive playing, looping to the beginning only once it has reached the last track or to single Track looping feature. Note: that the media player is always in continuous consecutive play mode each time the speaker is powered for more details.

Key Function (pressing action)

- Short Press <1s: play the next track in the playlist
- Long Press >2s: toggles the music player looping mode between **Continuous Consecutive Play** and **Single Track Loop**

** Default Mode on Start-up is Continuous Consecutive Play

Play the Next Track in the Playlist



Short press
<1sec

Toggles the Music Player Looping Mode between Continuous Consecutive Play and Single Track Loop

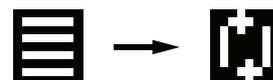


Long press
>2sec

Track List Play



Single Track Loop



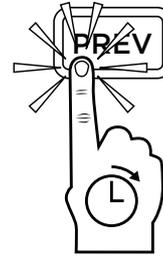
11 [PREV] Previous Track Button

While a track is currently being played in the music player, pressing the previous [PREV] track button will cause the music player to return to the previous track in the playlist. If the button is continuously held for 2 seconds it will force the media player to return to the first track in the playlist. The long press is a fast way to restart the player from the beginning again.

Key Function (pressing action)

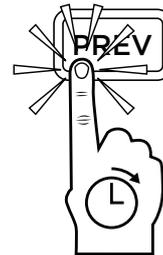
- Short Press <1s: play the previous track in the playlist
- Long Press >2s: rewinds the media player to track #001

Play the Previous Track in the Playlist

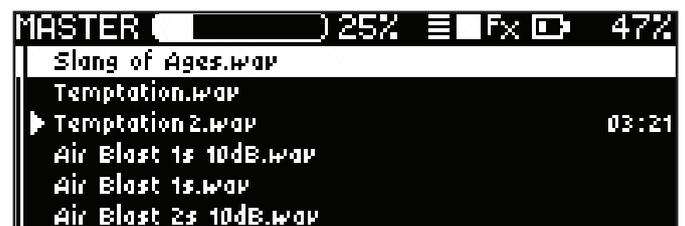


Short press
<1sec

Rewinds the Media Player to Track #001



Long press
>2sec



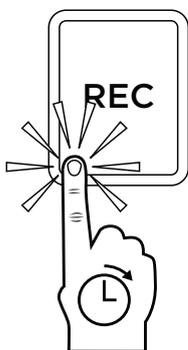
12 [REC] Record Button

The record [REC] button is used to start a new MP3 recording of a live broadcasting session. Press the stop button to terminate and save the recording directly to MP3 format. The recording will be saved into the removable flash microSD or USB connected device. The recording feature is disabled if no removable storage devices are connected. Note: the music player can not play a song from the playlist and record at the same time. You can however, record music and microphone input together by using the Bluetooth connection or any of the inputs such as line-in if you wish to record music and the microphone voice at the same time.

Key Function (pressing action)

- Press: starts an MP3 recording session

Starts an MP3 Recording Session



Short press
<1sec

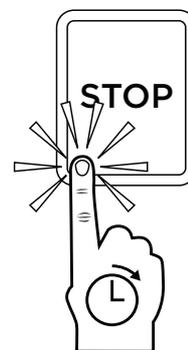
13 [STOP] Stop Button

Use the stop button to stop a song that is currently playing or to terminate and save a MP3 live session recording. You can also use the stop button to rewind a single track that is being played to the beginning of the same track again. The default state of the music player is "stopped" status on power up of the device.

Key Function (pressing action)

- Press: stops the track that is being played or recorded.

Stops the Track that is being Played or Recorded.



Short press
<1sec

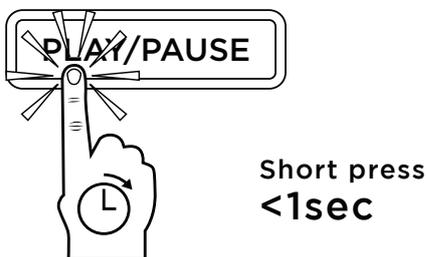
14 [Play/Pause] Button

The play/pause button is used to start or pause a track that is in the music player playlist. There must be removable flash media connected to the USB or microSD card slot in order to start the music player. If no media is available for playback this feature will be disabled. See the **Multi-Media Player Function Section** for more details.

Key Function (pressing action)

- Press: toggles media player play / pause state

Toggles Media Player Play / Pause State



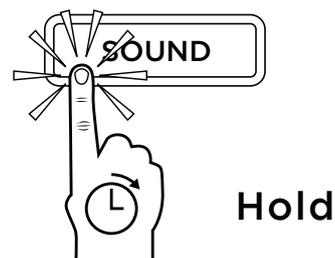
15 [SOUND] Alarm/Sound Button

This button will play the preselected siren/alarm announcements while the button is being held. This allows the user to demand the audiences attention. See the **Siren/Alarm Section** for more details how to customize the alarm/siren effects for this button. The Volume of the Siren/Alarm effects are controlled by the master volume level.

Function (key press)

- Press: plays the preselected **Alarm Sound** while this button is pressed

Plays the Preselected Siren/Alarm Sound



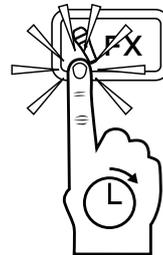
16 [FX] Button

The FX button offers a quick way to enable or disable the voice enhancement feature for karaoke sound effects applied to all of the input signals. By short pressing the button you disable or enable the effects. By long pressing the button you will be taken to the karaoke effects adjustment screen where you can adjust the tonality and amplitude of the effect. See the **Microphone/Input Voice Enhancer - FX Effects Section** for more details about the customization of the voice effects. Use this button in conjunction with the menu button when a software reset is required.

Key Function (pressing action)

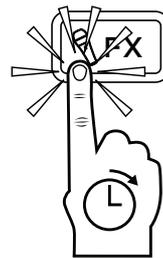
- Short Press <1s: Toggle FX Effects ON/OFF
- Long Press >2s: Enter **FX Editing Screen**
- Press both **MENU + FX** buttons together for **Software Reset**

Toggle the FX Effects ON/OFF



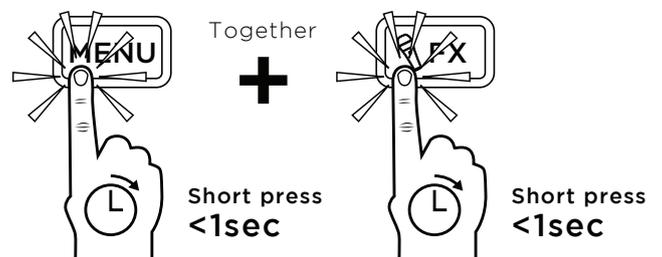
Short press
<1sec

Enter the FX Editing Screen



Long press
>2sec

Software Reset: restart the device



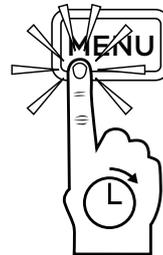
17 [MENU] Button

The menu button offers a convenient way to switch between the main menu and the settings menu screens. It also allows you to exit other screens such as the karaoke effects editing or the music player screen and return back to the main menu screen. Use this button in conjunction with the FX button when a software reset is required.

Key Function (pressing action)

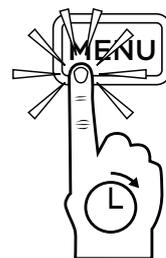
- Press: toggles between the **Main Menu** & the **Settings Menu** or return to the main menu when in **Media Player** or **FX** screens
- Press both **MENU + FX** buttons together for **Software Reset**

Toggles between the Main Menu & Settings Menu



Short press
<1sec

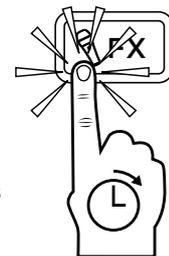
Software Reset: restart the device



Together



Short press
<1sec



Short press
<1sec

18 Navigation Rotary Dial

The navigation dial is a 2-axis button that has both rotation and pressing actions. The navigation dial is the main way for the user to interact with menus and settings as well as adjust the master or independent volume sources. Rotating the dial allows for preview of menu or playlist items and the button press selects individual items in lists.

Dial Function (rotate action)

- Rotate Clockwise: navigates “Down” in menu lists or navigates “Right” in the main menu
- Rotate Counter-clockwise: navigates “Up” in menu lists or navigates “Left” in the main menu

Key Function (pressing action)

- Press: selects or confirms highlighted menu items

Key Illumination (indicator)

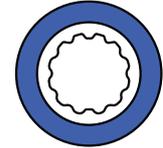
- Blue: Idle state
- White: while dial is pressed
- White Flashing: during editing a highlighted menu item
- Red: Master Volume Muted
- Red Flashing: when action is denied or on system errors / warnings

Dial Illumination Types

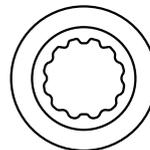
Key Brightness OFF



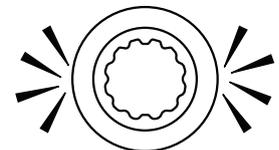
Blue:
Idle State



White:
While Dial Is Pressed



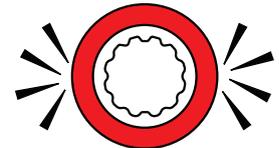
White Flashing:
Edit Highlighted Items



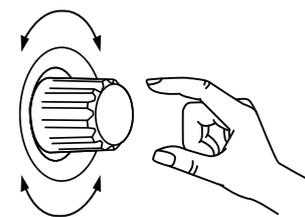
Red: Master mute



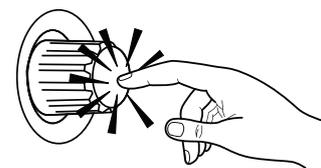
Red Flashing:
Action Denied or Errors



Rotate to Navigate Menus



Press to Select Menu Items



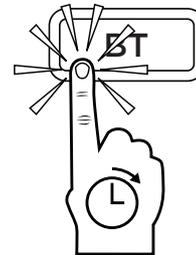
19 [BT] Bluetooth Source Button

This button allows the user to quickly mute (Disable) or unmute (Enable) the Bluetooth source. The volume of this source can be edited and adjusted by long pressing the key for 2 sec. Then you will be able to adjust the Bluetooth source volume level.

Key Function (pressing action)

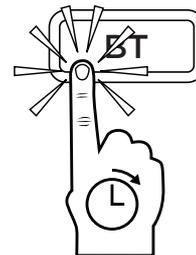
- Short Press <1s: toggles between mute & unmute
- Long Press >2s: edit **Bluetooth Source Volume Level**

Toggles Bluetooth Source between Mute & Unmute



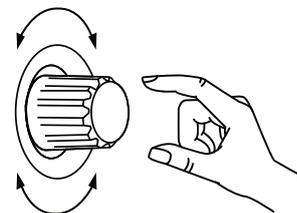
Short press
<1sec

Edit/Adjust Bluetooth Source Volume Level

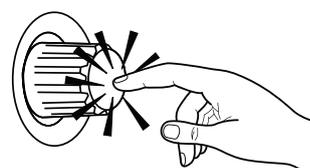


Long press
>2sec

Adjust Volume Level



Press to Save



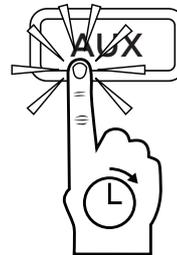
20 [AUX] Auxiliary Input Source Button

This button allows the user to quickly mute (Disable) or unmute (Enable) the ¼" microphone or auxiliary 3.5mm line-in source. The volume of this source can be edited / adjusted by long pressing the key for 2 sec. Then you will be able to adjust the auxiliary source volume setting.

Key Function (pressing action)

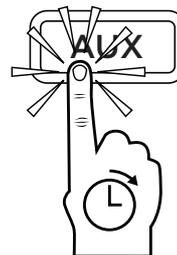
- Short Press <1s: toggles between mute & unmute
- Long Press >2s: edit **AUX Source Volume Level**

Toggles AUX Source between Mute & Unmute



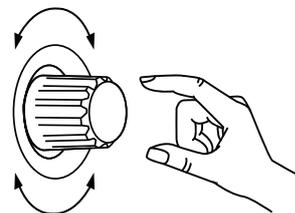
Short press
<1sec

Edit/Adjust AUX Source Volume Level

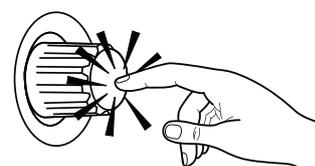


Long press
>2sec

Adjust Volume Level



Press to Save



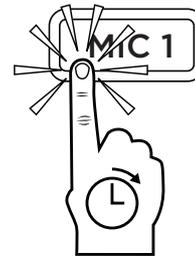
21 [MIC 1] Wireless Microphone Source Button

The MIC 1 button allow the user to quickly mute (Disable) or unmute (Enable) the build-in wireless microphone receiver. The volume of this source can be edited / adjusted by long pressing the key for 2 sec. Then you will be able to adjust the MIC 1 source volume level. Additionally when the MIC 1 source becomes muted (disabled) the UHF radio receiver will become shutdown and put into standby mode. This helps the speaker to save power when the wireless microphone is not in use. Turning off MIC 1 when not using them, will significantly increase the music playing time.

Key Function (pressing action)

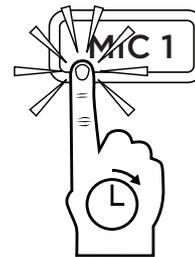
- Short Press <1s: toggles between mute & unmute
- Long Press >2s: edit **MIC UHF Receiver Volume Level**

Toggles MIC 1 Source between Mute & Unmute



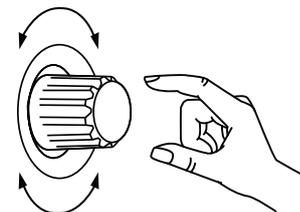
Short press
<1sec

Edit/Adjust MIC 1 UHF Receiver Volume Level

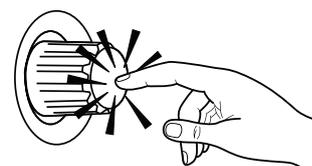


Long press
>2sec

Adjust Volume Level

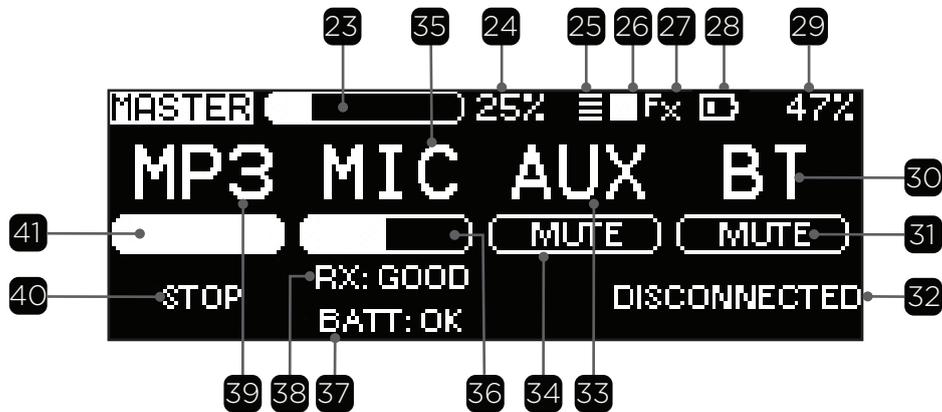


Press to Save



Information Display - Main Menu

22 3" Monochrome 192*64 Pixel Backlight Display



23 Mixer Source - Master Volume

- White Font: Master Volume is not selected for editing
- Black Font: Master Volume is selected for editing and the level can be adjusted using the navigation rotary dial
- Displays "mute" when the Master Volume is disabled

24 Master Volume Level %

- Always display the Master Amplifier gain in (%) format

25 Music Player Looping Mode

- Horizontal Lines Icon, Track List Consecutive Play Mode
- Loop Icon, Single Track Loop Mode

26 Music Player State

- Square Icon: Music Player Stopped
- Triangle Icon: Music Player Playing
- Horizontal Lines Icon: Music Player Paused
- Circle Icon: Music Player Recording

27 FX Voice Enhancer

- Blank Icon: FX Voice Enhancer is Disabled
- FX Icon: FX Voice Enhancer is Enabled

28 Battery Level Icon

- Graphically displays the battery level
- Charging State Icon: when battery is charging
- Blinking Icon: when the battery is low, the battery is missing or when the battery has an error message

29 Battery Level %

- Displays the Battery Level in (%) format
- CHG: while the battery is charging
- FULL: when the battery has completed charging
- ERR: when the battery is removed or battery problems

30 Mixer Source - Bluetooth

- White Font: Bluetooth Volume is not selected for editing
- Black Font: Bluetooth Volume is selected for editing and the level can be adjusted using the navigation rotary dial

31 Mixer Volume - Bluetooth

- Displays the Bluetooth source, mixer volume level
- Displays "mute" when the source is disabled in the mixer

32 Bluetooth Status Message

- Pairing: during the pairing process
- Connected: when the Bluetooth connection is active
- Disconnected: when the Bluetooth has disconnected

33 Mixer Source - Aux

- White Font: Auxiliary Volume is not selected for editing
- Black Font: Auxiliary Volume is selected for editing and the level can be adjusted using the navigation rotary dial

34 Mixer Volume - Aux

- Displays the Auxiliary source, mixer volume level
- Displays "mute" when the source is disabled in the mixer

35 Mixer Source - Wireless MIC

- White Font: Wireless Microphone Volume is not selected for editing
- Black Font: Wireless Microphone Volume is selected for editing and the level can be adjusted using the navigation rotary dial

36 Mixer Volume - Wireless MIC

- Displays the Wireless Microphone source, mixer volume level
- Displays "mute" when the source is disabled in the mixer

37 Wireless MIC Battery Level

- Displays the Wireless Microphone battery level status
- "BATT: OK" when >1hr remaining
- "BATT: LOW" when <1hr remaining
- Blank / No Display when Loss of Signal (LOS), or when the microphone is powered off or out of range.

38 Wireless MIC Receiver Strength

- Displays the Wireless Microphone reception quality
- "RX: GOOD" when connection is stable
- "RX: FAIR" when connection is moderate
- "RX: LOW" when intermittent connection may occur
- Blank / No Display when Loss of Signal (LOS), or when the microphone is powered off or out of range.

39 Mixer Source - Music Player

- White Font: Music Player Volume is not selected for editing
- Black Font: Music Player Volume is selected for editing and the level can be adjusted using the navigation rotary dial

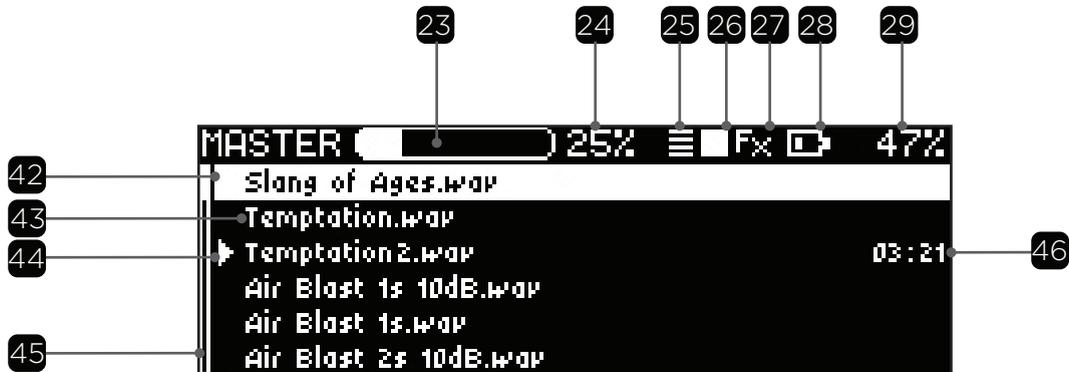
40 Music Player Status

- Playing: while the Music Player is playing music
- Paused: when the Music Player is paused
- Stopped: when the Music Player is stopped or completed a
- Record: while the Music Player is recording a live session

41 Mixer Volume - Music Player

- Displays the Music Player source, mixer volume level
- Displays "mute" when the source is disabled in the mixer

Information Display - Music Player Menu



42 Next Track Selection Marker

Shows the current cursor position in the menu. If the Navigation button is pressed, this track will immediately play

43 Player Track Title

- Displays the name of each audio file from an attached USB or MicroSD removable media device

44 Currently Playing Track Marker

- Shows the current state of the track in the playlist

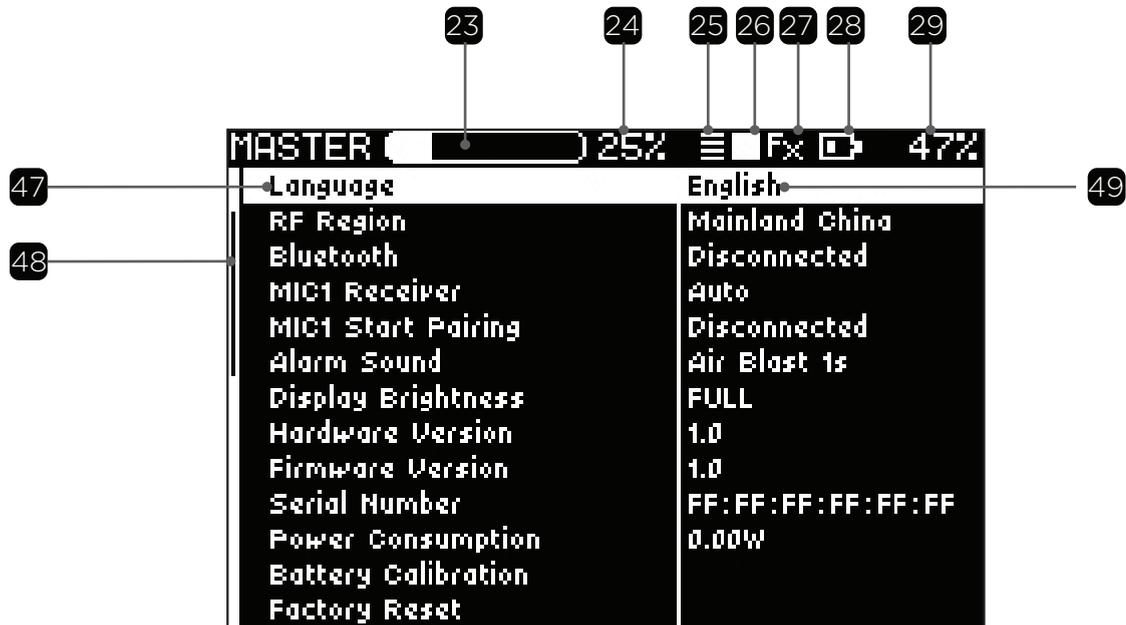
45 Playlist Track Scroller

- When music tracks are longer than can be displayed on the screen the Playlist Track Scroller assists with navigation
- The scroller size/scale is based on the total length of the menu items

46 Track Timer

- Displays the current position in the audio file playback
- While Playing & Recording, this shows the Count Up Time Duration
- Flashing Timer when the track is Paused

Information Display - Settings Menu



47 Highlighted Items Settings

- The Menu Item has an inverted background color to identify the selected item in the menu list.
- When selected, the user can modify the menu item

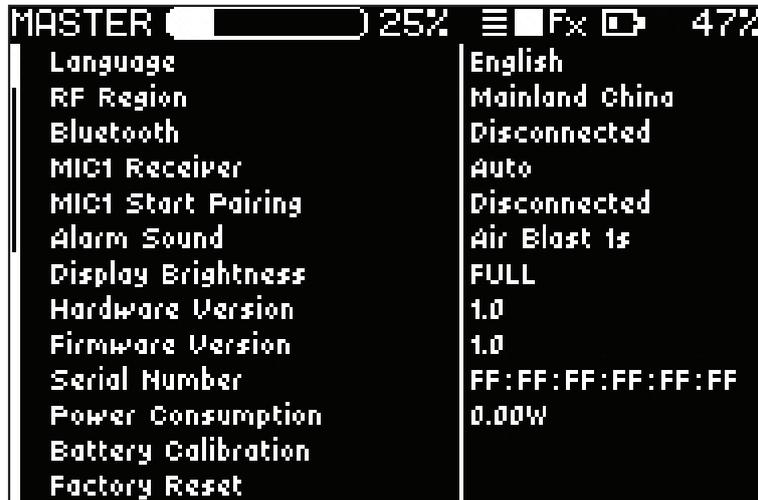
48 Settings Menu Scroller

- When menu items are longer than can be displayed on the screen the menu scroller assists with navigation.
- The scroller size/scale is based on the total length of the menu items

49 Settings Item

- Displays the Value for the selected item.
- If the item is selected and the item has a range of settings the navigation wheel allows for scrolling through the available items in the list

Information Display - Settings Menu item list



Language

User can select the Information Display language

- English
- 中文

** Language preview with save on exit

RF Region

Displays the products UHF receiver territory

**information is read only

Bluetooth

This is where bluebooth connections can be initiated

1. Pair (pairing new devices)
2. Connect (connect to a previously paired device)
3. Disconnect (remove the previously paired device)

Wireless Microphone Channel Selection

Allows for automatic or manual channel selection

1. Choose "AUTO" for Easy Automatic channel searching
2. Alternatively, manually choose the Frequency & channel desired, Channels 1-16
3. Perform the Pairing process to send updated settings to the microphone using the IR pairing process below
4. Frequency displayed in xxx.xxxMhz format

**Settings preview with save on exit

Wireless Microphone Start Pairing Process

After Selecting the Desired Channel Frequency from the above menu item. Pair and Synchronize the updated setting to the microphone using the IR pairing process.

1. Perform the Channel Selection Type: Auto or Manual
2. Initiate Pairing with the microphone to configure the microphone with the new setting

**Settings preview with save on exit

Alarm Sound Effect

User can choose form the 7 different alarms sounds

1. Air Blast 1s
2. Air Blast 2s
3. Air Raid Siren
4. School Bell
5. Emergency Siren
6. Siren Wail
7. Siren Yelp

**Sound preview with save on exit

Display Backlight Brightness

User can choose form the 5 display brightness levels

1. FULL (maximum outdoor brightness)
2. High
3. Medium
4. Low
5. Lowest (10% brightness minimum)

**Brightness preview with save on exit

Hardware Version

Displays the electronic hardware version of the product

**information is read only

Firmware Version

Displays the products currently installed software version

**information is read only

Serial Version

Displays the products unique identification number

**information is read only

Power Consumption

Displays the real-time power consumption in (Watts)

**information is read only

Battery Calibration

User can initiate the new battery calibration

1. Calibration is completed after 3 charging cycles
2. Use when new battery or different battery is installed
3. This resets the estimated time remaining history

Factory Reset

Sets the product back to factory initial setting

Settings Menu

To Enter the Settings Menu, Press the **MENU Button**

To Exit the Settings Menu and return to the Main Menu, Press the **MENU Button**

In the Settings Menu you can View & Adjust

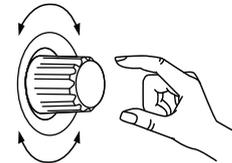
1. Display Language
2. RF Receiver Region (View Only)
3. Bluetooth Pairing & Status
4. Wireless MIC Channel & Frequency
5. Wireless MIC Pairing & Status
6. Alarm Sound
7. LCD Display Brightness
8. Hardware Version (View Only)
9. Firmware Version (View Only)
10. Serial Number (View Only)
11. Power Consumption
12. Battery Calibration
13. Factory Reset



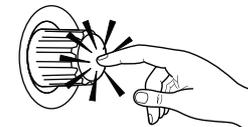
1. Enter/Exit Setting Menu



2. Preview Option



3. Select/Edit Options



Changing the Device Language

The P100 supports 3 languages, English, Simplified Chinese & Italian. The displayed language can be adjusted by entering the Settings Menu and selecting the desired language from the list.

To adjust the desired language:

1. Press the **MENU** button to enter the Settings Menu
2. Rotate the Navigation Dial to highlight the **Language** option from the Settings List
3. Press the Navigation Dial to Select the **Language** option
4. Rotate the Navigation Dial to preview the selected language types
5. To select the displayed language, Press the Navigation Dial to **Save** the option

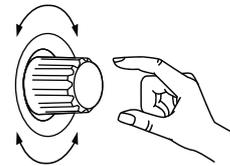
The device will remember this setting the next time you power on the unit.

Language	English
RF Region	Mainland China
Bluetooth	Disconnected
MIC1 Receiver	Auto
MIC1 Start Pairing	Disconnected
Alarm Sound	Air Blast 1s
Display Brightness	FULL
Hardware Version	1.0
Firmware Version	1.0
Serial Number	FF:FF:FF:FF:FF:FF
Power Consumption	0.00W
Battery Calibration	
Factory Reset	

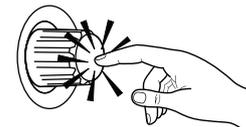
1. Enter Setting Menu



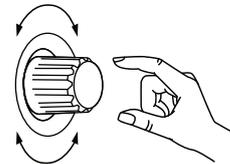
2. Navigate To Language Option



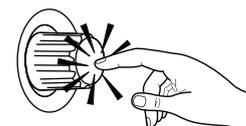
3. Select/Modify Language Setting



4. Preview Desired Language



5. Select Desired Language



6. Exit Setting Menu



RF Receiver Region

The P100 wireless UHF receiver incorporate true-diversity dual (2) antenna technology and are calibrated from the factory. This setting is View Only and can not be modified. Each Country has its own regulation and licensed bandwidth criterial. Below are the RF region details and channel / frequency available in the settings menu.

Mainland China UHF Channel Selection

Frequency Range: 655Mhz - 679Mhz
 Bandwidth: 24Mhz
 Channel Presets: 16ch

Hong Kong / Macau UHF Channel Selection

Frequency Range: 514Mhz - 542Mhz
 Bandwidth: 28Mhz
 Channel Presets: 16ch

Taiwan UHF Channel Selection

Frequency Range: 748Mhz - 758Mhz
 Bandwidth: 10Mhz
 Channel Presets: 12ch

MASTER  25%  Fx  47%	
Language	English
RF Region	Mainland China
Bluetooth	Disconnected
MIC1 Receiver	Auto
MIC1 Start Pairing	Disconnected
Alarm Sound	Air Blast 1s
Display Brightness	FULL
Hardware Version	1.0
Firmware Version	1.0
Serial Number	FF:FF:FF:FF:FF:FF
Power Consumption	0.00W
Battery Calibration	
Factory Reset	

Bluetooth Pairing

The P100 can pair with Bluetooth Audio Sources to stream A2DP music and audio

To pair the Bluetooth of the P100:

1. Press the **MENU** Button enter the Settings Menu
2. Rotate the Navigation Dial to highlight the **Bluetooth Pairing** option from the Settings List
3. Press the Navigation Dial to Activate the **Bluetooth Pairing** process. **Pairing** will be displayed
4. All previously paired/connected devices will be removed
5. On your mobile device turn on your Bluetooth and Scan for New Devices
6. Search for the "**P100**" name in the device list and confirm pairing with the New Device
7. Once the connection is successful you will see "Connected" listed in the Status Box

After pairing is successful, the P100 will automatically reconnect with the Bluetooth source each time the PA speaker is powered on.

**The Speaker does not support Bluetooth HFP or HSP profiles (wireless phone call with microphone)

MASTER 25% 47%	
Language	English
RF Region	Mainland China
Bluetooth	Disconnected
MIC1 Receiver	Auto
MIC1 Start Pairing	Disconnected
Alarm Sound	Air Blast 1s
Display Brightness	FULL
Hardware Version	1.0
Firmware Version	1.0
Serial Number	FF:FF:FF:FF:FF:FF
Power Consumption	0.00W
Battery Calibration	
Factory Reset	

Wireless MIC Channel & Frequency

The P100 Wireless UHF Microphones and Receiver have up to 12/16 preset channels that can be selected based on the country / region.

The P100 incorporates an automatic pairing process that make the microphones pairing and channels selection process easy. You are also allowed to manually choose the channel you wish to use.

Mainland China UHF Channel Selection

Preset	CH 1	CH 2	CH 3	CH 4	CH 5	CH 6	CH 7	CH 8
MHz	655.200	656.675	658.500	660.050	661.500	665.900	664.425	666.500
Preset	CH 9	CH 10	CH 11	CH 12	CH 13	CH 14	CH 15	CH 16
MHz	667.800	668.225	670.800	672.275	673.725	675.075	676.500	678.600

Hong Kong / Macau UHF Channel Selection

Preset	CH 1	CH 2	CH 3	CH 4	CH 5	CH 6	CH 7	CH 8
MHz	514.400	515.450	516.400	517.550	519.150	520.450	521.850	523.750
Preset	CH 9	CH 10	CH 11	CH 12	CH 13	CH 14	CH 15	CH 16
MHz	525.500	527.550	528.550	530.000	534.150	536.550	538.800	541.450

Taiwan UHF Channel Selection

Preset	CH 1	CH 2	CH 3	CH 4	CH 5	CH 6	CH 7	CH 8
MHz	748.200	748.500	749.000	750.000	750.350	751.200	753.700	754.825
Preset	CH 9	CH 10	CH 11	CH 12				
MHz	755.400	756.450	756.850	575.750				

Automatic Channel Selection & Microphone Pairing Process

The automatic microphone pairing process removes the headache of trying to find the best channel in your location. Choosing the best channel means you will have the most stable wireless connection and the microphone will have the most optimal broadcasting range.

Perform this procedure if you are experiencing microphone interference or range limitation

How does the Automatic Microphone Pairing Process Work?

When the user selects the **AUTO** channel selection feature from the Settings Menu, the P100 will automatically **scan and analyze** every channel available and determine which channel has the least radio traffic interference. Once the most optimal channel has been determined, the P100 will then continue the normal pairing process, and send the updated configuration to the microphone transmitter.

Perform the 3-step Automatic Microphone Pairing Process:

1. Prepare the M20 Microphone for Pairing
 - a. Remove the Microphone Battery Cover
 - b. Turn the Microphone ON, it should display a Blue color indicator
 - c. Make sure the IR Pairing window is free from obstructions
2. Prepare the P100 for Automatic Channel Analyzing
 - a. Press the **MENU** Button to enter the Settings Menu
 - b. Decide which Receiver to pair the MIC 1
 - c. Rotate the Navigation Dial to highlight the desired **MIC 1 Receiver** from the Settings List
 - d. Press the Navigation Dial to Select the **MIC1 Channel** you want to change
 - e. Rotate the Navigation Dial and select **AUTO** from the Settings List
 - f. Press the Navigation Dial to confirm the desired Automatic Scanning to be used for microphone pairing
3. Perform the Microphone Pairing Process
 - a. Rotate the Navigation Dial to highlight the MIC 1 Start Pairing option from the Settings List
 - b. Press the Navigation Dial to Initiate the pairing process
 - c. The Radio will indicate "**Radio Searching...**" indicating that it is analyzing all available channels
 - d. After the Radio Channel analysis is complete for the MIC 1, the P100 will immediately enter the microphone pairing process.
 - e. Place the M20 microphone within 5" (10cm) from the blinking pairing light on the P100. This will allow the P100 to send the updated command information to the microphones IR receiver. Its important not to obstruct and direct the blinking light towards the microphones IR receiver window.
 - f. Once the process has successfully completed and can receive data from the connected microphone, the P100 will display **Connected CH#** in the **MIC 1 Start Pairing** option
 - g. You will see the updated Channel and Frequency that the P100 has determined to be the most optimal in the **MIC 1 Receiver** options list
 - h. If the display says **Disconnected** in the **MIC 1 Start Pairing** option after the pairing process has completed and the LED Pairing Light has stopped blinking, than the communication from the P100 to the M20 Microphone was unsuccessful and you will need to perform the automatic pairing process again.

Manual Channel Selection & Microphone Pairing Process

If you are an advanced user and wish to choose the M20 Microphones Transmission Frequency directly, than use this option to update the Transmission Frequency of the M20 Microphone

Perform the 3-step Manual Microphone Pairing Process:

1. Prepare the M20 Microphone for Pairing
 - a. Remove the Microphone Battery Cover
 - b. Turn the Microphone ON, it should display a Blue color indicator
 - c. Make sure the IR Pairing window is free from obstructions
2. Manually Select the P100's Frequency / Channel
 - a. Press the **MENU** Button to enter the Settings Menu
 - b. Rotate the Navigation Dial to highlight the desired **MIC 1 Receiver** from the Settings List
 - c. Press the Navigation Dial to Select the **MIC 1 Channel** you want to change
 - d. Rotate the Navigation Dial and select **CH#** Channel Number and Frequency from the Settings List
 - e. Press the Navigation Dial to confirm the desired Channel Number and Frequency to be used for microphone pairing.
3. Perform the Microphone Pairing Process
 - a. Rotate the Navigation Dial to highlight the **MIC 1 Start Pairing** option from the Settings List
 - b. Press the Navigation Dial to Initiate the pairing process
 - c. Place the M20 microphone within 5" (10cm) from the blinking pairing light on the P100. This will allow the P100 to send the updated command information to the microphones IR receiver. Its important not to obstruct and direct the blinking light towards the microphones IR receiver window.
 - d. Once the process has successfully completed and can receive data from the connected microphone, the P100 will display **Connected CH#** in the **MIC 1 Start Pairing** option
 - e. If the display says **Disconnected** in the **MIC 1 Start Pairing** option after the pairing process has completed and the LED Pairing Light has stopped blinking, than the communication from the P100 to the M20 Microphone was unsuccessful and you will need to perform the manual pairing process again.

Microphone/Input Voice Enhancer - FX Button

The P100 incorporates an (FX Effects) Voice Enhancing Digital Signal Processor that can modify the entertainment effects of the microphone and analog inputs. Users can easily toggle this feature on/off and adjust different parameters to modify the input tonality and reverb / echo effects.

The FX feature affects wireless MIC 1 as well as the Mic-In and Line-In analog input connections



Turning ON/OFF the FX Effects

- Short Press The  **FX Button** to toggle the Input effects ON or OFF

Enter the FX Effect Settings Menu

1. Press and Hold the  **FX Button** for 2 Seconds
2. Rotate the Navigation Dial to adjust the selected effects settings
3. Press the Navigation Dial to toggle between REVERB and ECHO settings

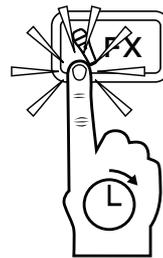
Exit the FX Effect Settings Menu

- Pressing any of the , **FX Button**, **MENU**, or **USB** buttons will exit the FX effects settings menu

**Inputs with FX Effects Feature

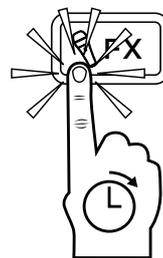
- 1/4" Microphone-In
- 3.5mm Aux-In
- Wireless MIC 1

Toggle the FX Effects ON/OFF



Short press
<1sec

Enter the FX Editing Screen



Long press
>2sec

Technical Specifications

P100	
System	
Model Number	P100
CPU System	Dual Core, 1.0Ghz, 64MB RAM
Display	MONO, 192*64pix Monochrome Display
Features	Audioz Player, True-Diversity Dual UHF Receiver, Bluetooth, Analog 3.5mm, ¼" Microphone & 4-Channel Mixer. Siren, Alarm and Microphone Effects
Interface	2-Axis Navigation control USB & MicroSD Removable Media
Music Player	
Controls	Play/Pause, Stop, Record, Previous & Next Track, Track/Playlist, Repeat
Music Preview	Song List Album Cover Supports 1,000 Audio Tracks
File System	FAT 16/32 or NTFS
Removable Media	USB 2.0 + MicroSD UHS-1 (Class 4)
Bitrates Supported	32-320kbps
Audio Formats	MP3, WAV, AAC
Record Feature	Encoded to MP3
Audio	
Amplifier Rated Power	40 Watt
Frequency Response	80 - 18,000 Hz ± 3dB
Max SPL ¹	102 dB
Driver	4" Full Range
Analog input	3.5mm Line-In ¼" Microphone Input
Analog output	3.5mm Line-Out
DSP	SigmaDSP® 50-MIPS Digital Audio Processor Microphone Effects 4 Channel Mixer

Bluetooth Wireless	
Bluetooth Version	V5.3
Bluetooth Profile	A2DP, AVRCP, SBC, AAC
Frequency Band	2.400GHz - 2.483GHz ISM Band /4dBm (Class 2)
Bluetooth Range	10 m / 30 ft (free space)
UHF Wireless	
RF Technology	Analog UHF True Diversity Receiver 2-Integrated Antennas
Option #1	UHF 655-679MHz 24MHz Bandwidth 16 Channels
Option #2	UHF 514-542MHz 28MHz Bandwidth 16 Channels
Option #3	UHF 748-758MHz 10MHz Bandwidth 12 Channels
Microphone Pairing	Infrared Transmitter
General	
Accessories	(1) M20 Wireless Microphone (1) Integrated 5/8" Tripod Mount ² (1) Detachable Shoulder Strap
Battery Pack	Removable / Replaceable Lithium-Ion Battery Pack INR26650-4S1P 14.4V @ 2,550mAh, 37.0Wh
Charging Time	Approx. 3hrs
Autonomous time ³	Approx. 10hrs
Power Supply	100-240VAC @ 50/60Hz 19VDC @ 2.5A (47-Watts)
Dimensions (WxHxD)	128(W) x 148(H) x 260(D) mm
P200 Weight ⁴	1.84 kg
All-in-One Weight ⁵	2.1 kg

¹ Maximum SPL at 1m calculated using crest factor 4 (12dB)

² Tripod Sold Separately

³ Playtime varies based on number of receivers turned on and the loudness and music setting.

⁴ Gross Weight Including P100 & Battery (not include microphone)

⁵ Gross Weight Including one (1) M20 Microphone and Batteries

Technical Specifications

M20 Microphone	
System	
Model Number	M20
Microphone Type	Dynamic
Frequency Response	40-18,000 Hz
UHF Transmission Range	Dynamic Bands
Option #1	UHF 655-679MHz 24MHz Bandwidth 16 Channels
Option #2	UHF 514-542MHz 10MHz Bandwidth 16 Channels
Option #3	UHF 748-758MHz 20MHz Bandwidth 12 Channels
UHF Transmission Power	20-50mW
Microphone Pairing	Infrared Receiver
General	
Battery	Lithium-Ion Battery Removable / Replaceable ICR18500 3.7V @ 1,400mAh, 5.18Wh
Interface	Power Switch RGB LED for Power/Charging Status
Charging Time	Approx. 3hrs
Autonomous time ¹	Approx. 20hrs
Radio Range	30 m / 100 ft (free space)
USB-C Charger ²	5V _{DC} @ 1.0A (5-Watts)
Dimensions (WxDxH)	50(W) x 50(D) x 200(H) mm
Weight ³	250 gm

¹ Playtime varies based on level on RF interference in the environment and transmission power setting

² USB-C cable and Charger Sold Separately

³ Gross Weight Including Removable Battery

Service

To obtain service:

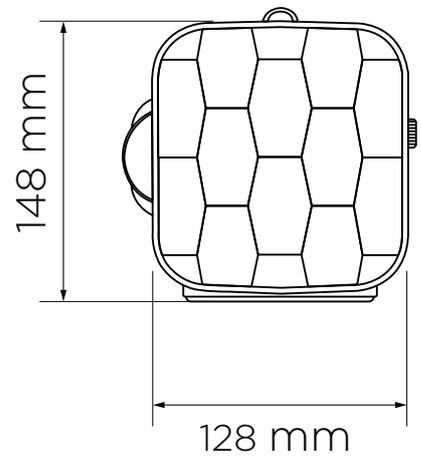
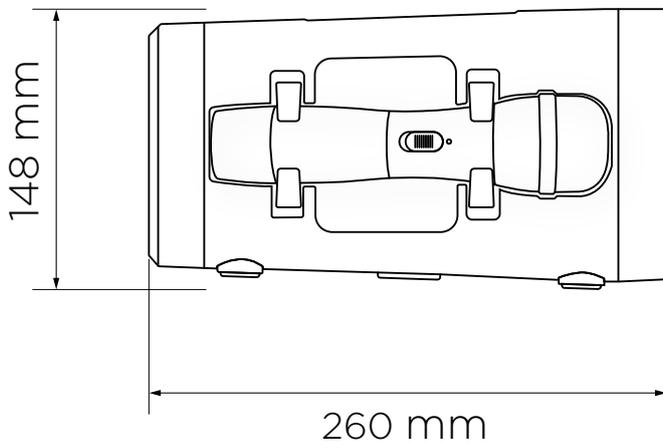
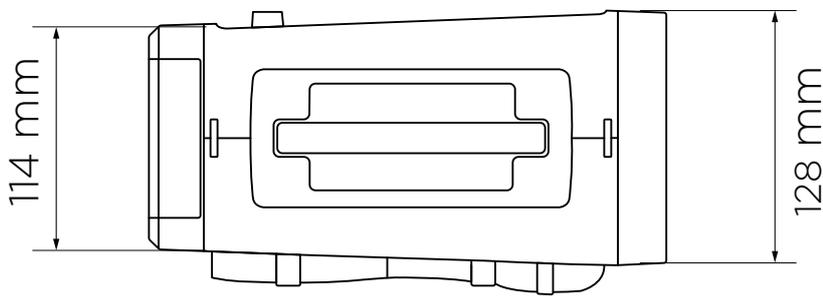
1. Please have the serial number of the unit available for reference.
2. Contact <https://www.artsound.com.cn/support>
Please describe the problem clearly and completely to the Customer Service.
3. You will be contacted back for online servicing.
4. If the problem cannot be resolved over the phone, you may be required to send the unit in for service. In this instance, you will be provided with an RA (Return Authorization) number which should be included on all shipping documents and correspondence regarding the repair. Shipping charges are the responsibility of the purchaser.

Any attempt to modify or replace components of the device will void your warranty. Service must be performed by an authorized ARTSOUND service center.

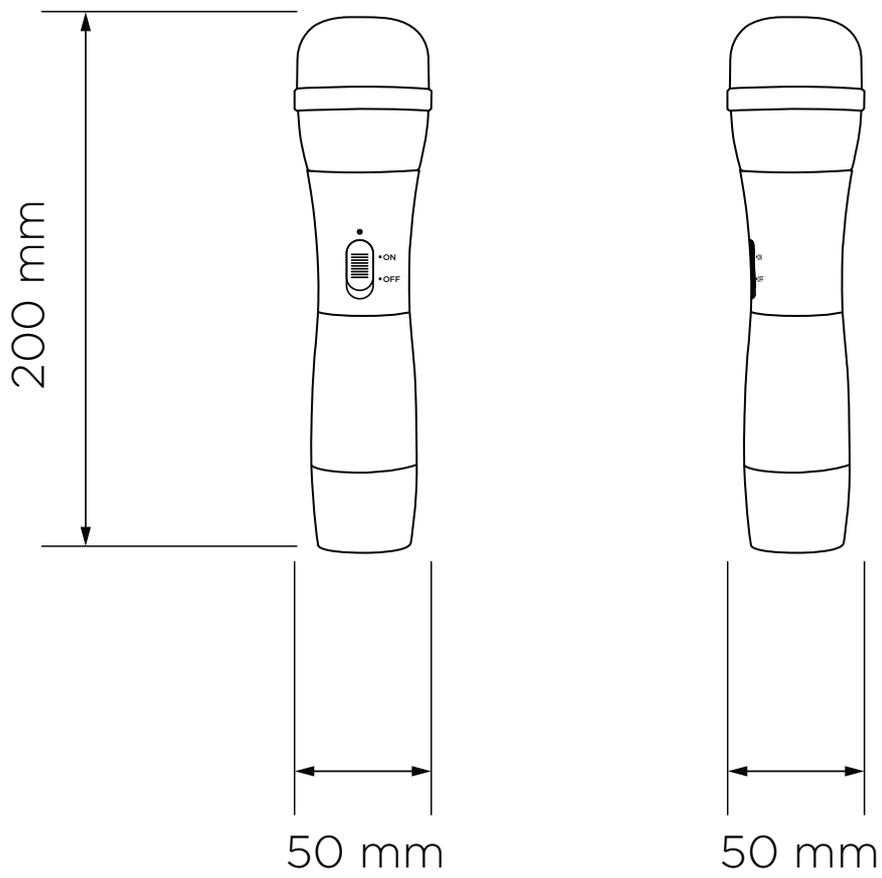
Cleaning

Use only a soft, dry cloth to clean the housing. Do not use any solvents, chemicals, or cleaning solutions containing alcohol, ammonia, or abrasives. Do not use any sprays near the product or allow liquids to spill into any openings.

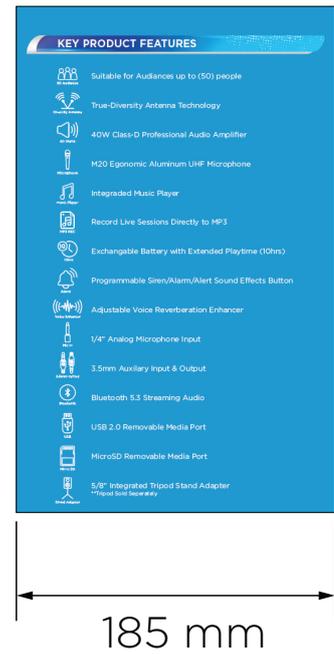
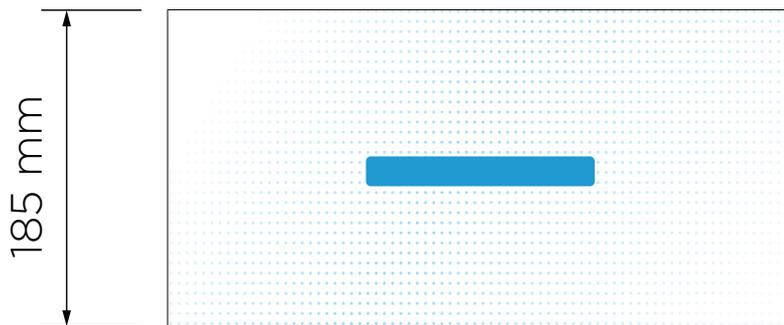
P200 PRO Size & Dimensions



M20 Size & Dimensions



Packaging Size & Dimensions



ARTSOUND P100

Technical Support
For additional information or support with your
product please visit our website



www.artsound.com.cn/support