ARTSOUND
P200 PRO

Index

ARTSOUND is proud to introduce the P200 PRO Personal Broadcasting System. This portable amplifier (PA) is a professional personal loudspeaker system with a built-in multi-functional media player, 5 independent audio source mixer and enough power to reach an audience up to 100 people. The PA incorporates a Dual Core 1.0 GHz CPU system and its high-definition, outdoor readable, full-color display, allows you to control and manage your broadcasting experience. The feature rich full-color information display is accompanied by dual (2) true-diversity UHF microphone receivers, Bluetooth, analog microphone input, auxiliary audio inputs, as well as a line-output connection. You can connect your media via both USB or MicroSD simultaneously. The high-bitrate media player can also record your broadcasting sessions directly to MP3 format. With a quick-exchangeable, 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. Each UHF Receiver is accompanied by 2 independent RF receivers (4 antennas in total). This ensures the wireless link between each of the 2 microphones stays stably connected to the PA system. You will be able to monitor the reception strength and battery level of the companion M20 Microphones.

Trademark Notice

Key Product Features

Suitable for Audiances up to (100) people
100 Audience

Dual (2) Channel, True-Diversity Antenna Technology
Diversity Antenna

50W Class-D Professional Audio Amplifier
50 Watts

Two (2) M20 Egonomic Aluminum UHF Microphones
Dual Microphone

Integraded Audio/Visual, Media Player
Media Player

Record Live Sessions Directly to MP3
MP3 REC

Exchangable Battery with 16hrs Extended Playtime
16Hrs

Programmable Siren/Alarm/Alert Sound Effects Button
Alarm

Adjustable Voice Reverberation Enhancer
Voice Enhancer

1/4" Analog Microphone Input
Mic In

3.5mm Auxilary Input & Output
3.5mm In/Out

Bluetooth 5.3 Streaming Audio
Bluetooth

USB 2.0 Removable Media Port
USB

MicroSD Removable Media Port
Micro SD

5/8" Integrated Tripod Stand Adapter
**Tripod Sold Seperately
Stand Adapter

IMPORTANT SAFETY INSTRUCTIONS

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN
ATTENTION: RISQUE DE CHOC ELECTRIQUE NE PAS OUVRIR

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK,
DO NOT REMOVE COVER (OR BACK).
NO USER-SERVICEABLE PARS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

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

The lighting 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 accor dance with the manufacture'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 P200 PRO 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 P200 PRO PA Speaker
B.   P200 Battery Pack
C.   (2) M20 Microphones
D.   (2) 18500 Rechargeable Microphone Batteries
E.   AC/DC 19VDC Battery Charger
F.   AC Socket Adaptor(s)
G.   Quick Start Guide
H.   Safety & Warranty Information
I.   Shoulder Strap
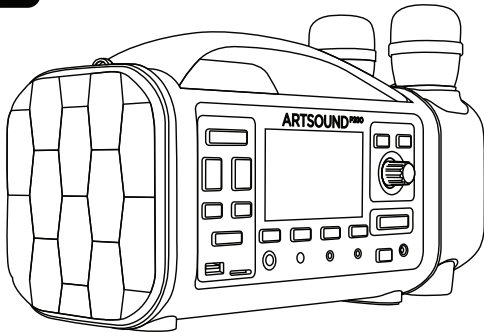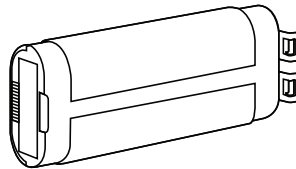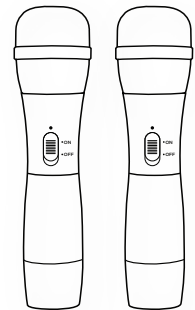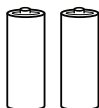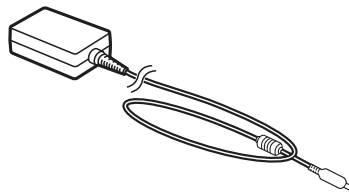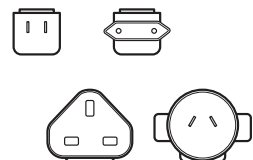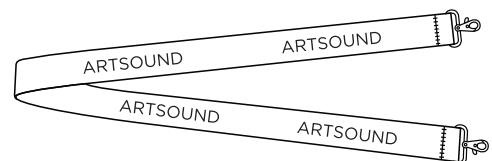
Part Names & Functions

Control Panel
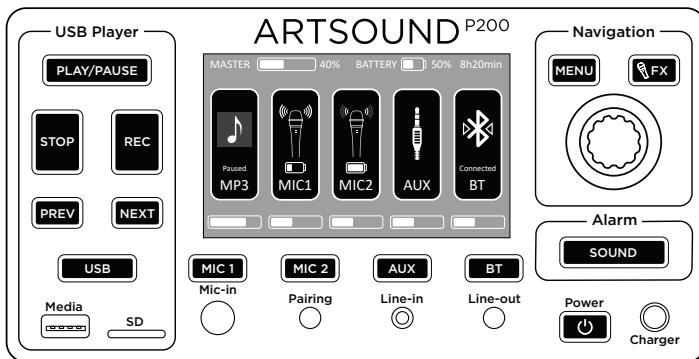
Microphone Holder
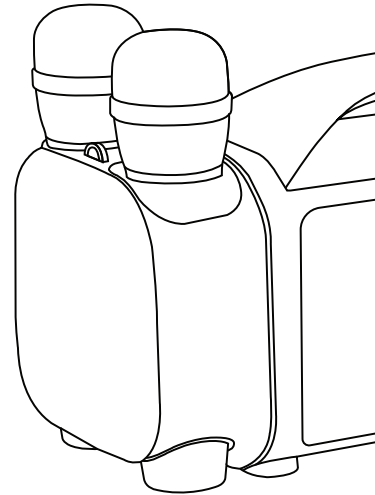
P200 Battery & Cover
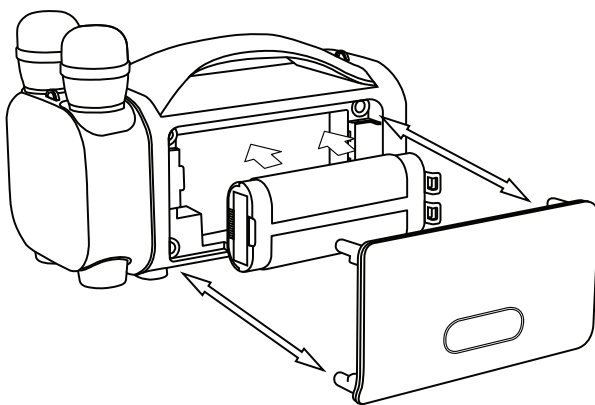
Tripod Mount
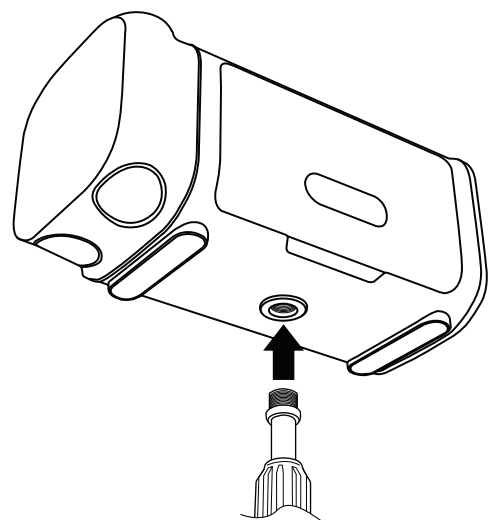
** Tripod sold separately

Part Names & Functions

Firmware Update Port
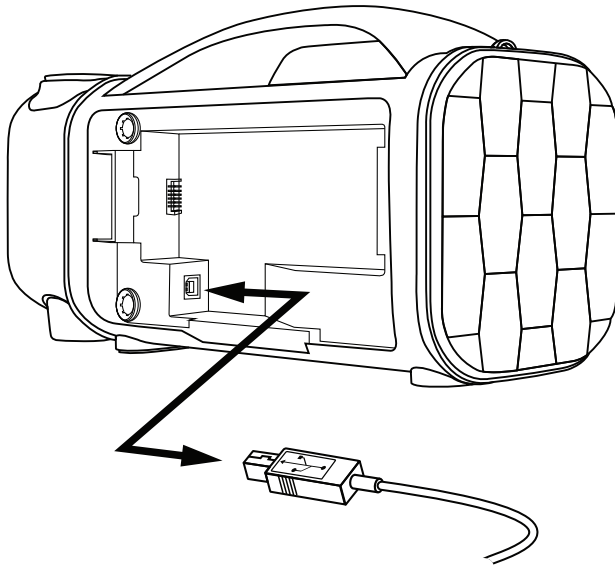
Microphone Battery
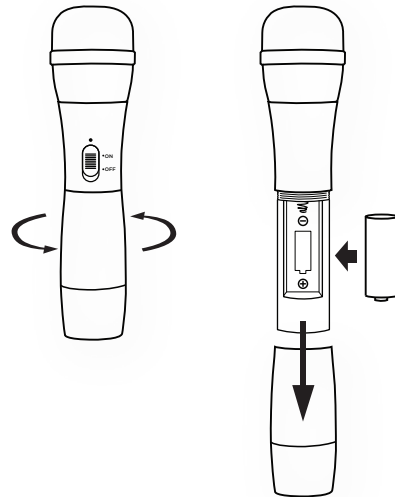
Shoulder Strap Clip/Mounts
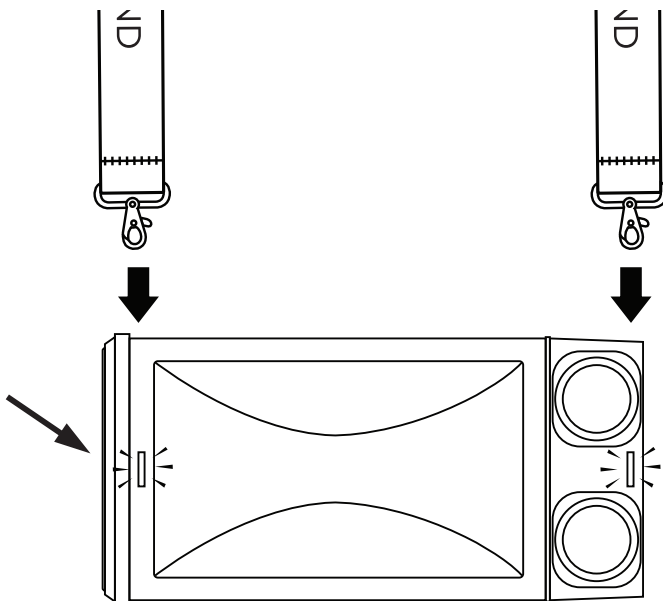
Microphone Pairing Window
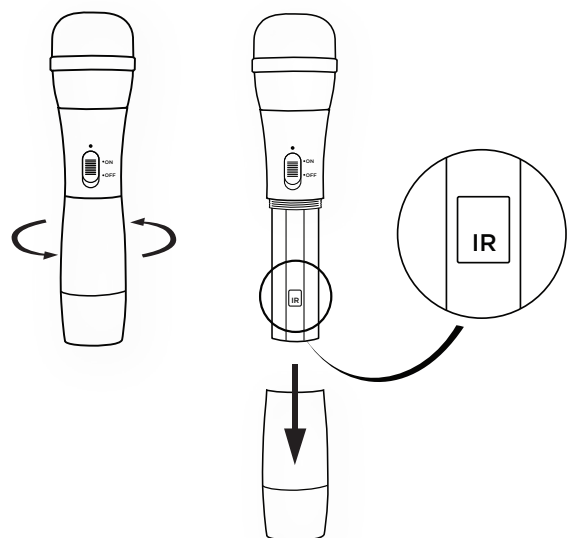
Getting Started

1. Install P200 PRO Battery
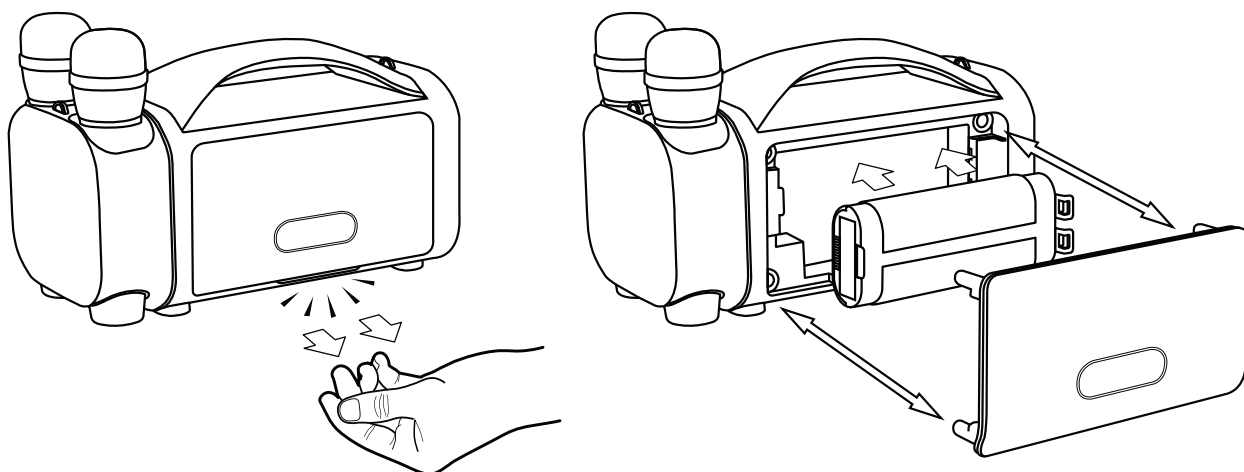
2. Install M20 Battery
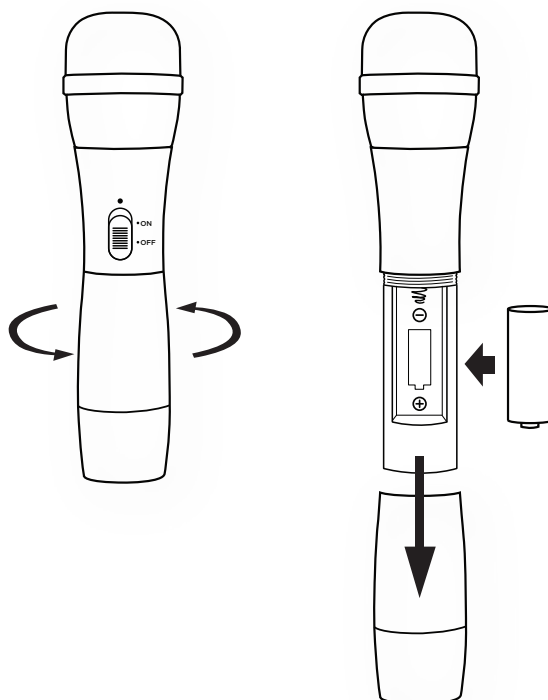
Getting Started

3. Connect P200 PRO Charger
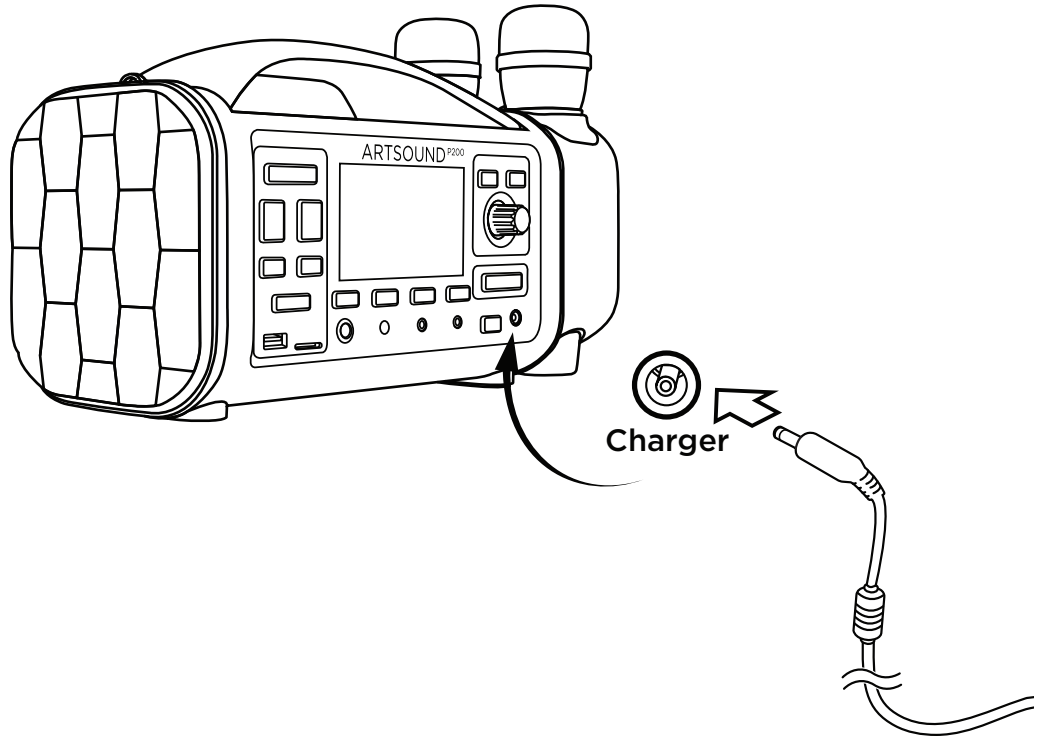
Charger

4. Connect M20 Charger

Turn power off

USB-C Charger
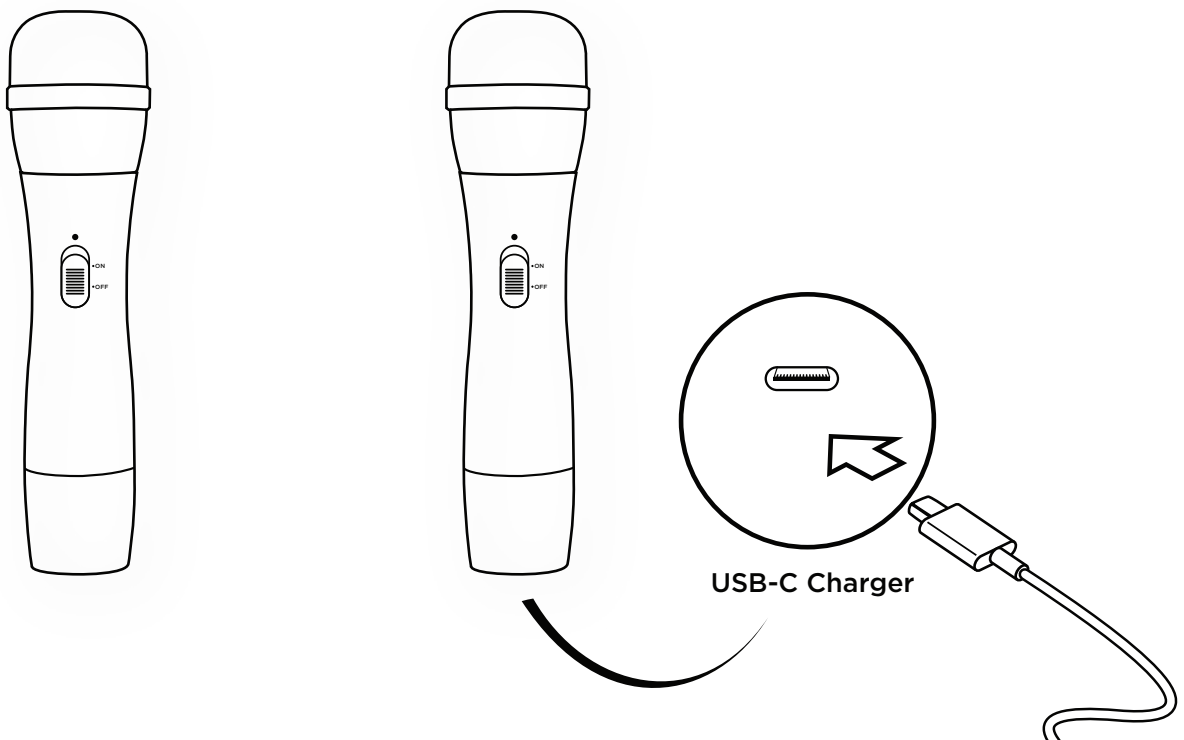
Getting Started

5. Pair the Microphones

Step 1
Turn Mic power on
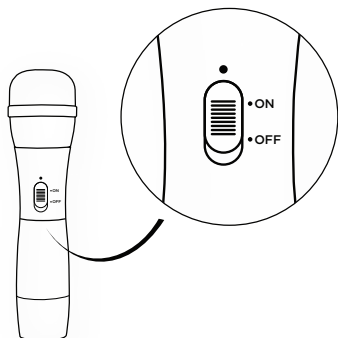
Step 2
Remove battery cover
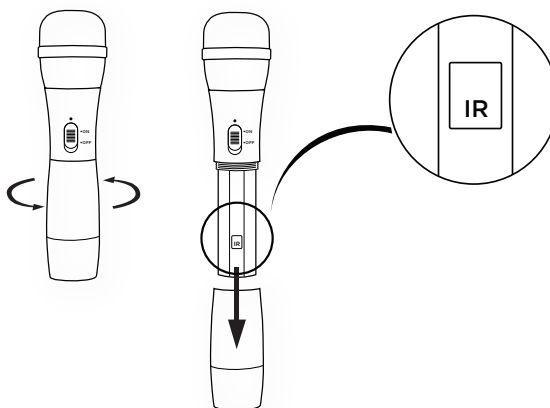
Step 3
Press MENU button
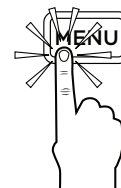
Step 4
<Select "Auto"> for the desired MIC# Channel

MASTER ▬▬ 40% BATTERY ▯ 50% 8h20min	
Settings	
Language	English
RF Region	Mainland China
Bluetooth	Connected
MIC1 Channel	▸ Auto
MIC1 Start Pairing	Connected (CH1)
MIC2 Channel	CH2 (656.675MHZ)
MIC2 Start Pairing	Disconnected
Alarm Sound	Emergency Siren
Display Brightness	FULL
Key Brightness	FULL
Hardware Version	Rev x.x
Firmware Version	XXXX

SETTINGS

Step 5
<Select "Radio Search"> to Start MIC# Pairing

| MASTER ▬▬ 40% BATTERY ▯ 50% 8h20min	
Settings	
Language	English
RF Region	Mainland China
Bluetooth	Connected
MIC1 Channel	CH1 (655.200MHZ)
MIC1 Start Pairing	▸ Radio Search
MIC2 Channel	CH2 (656.675MHZ)
MIC2 Start Pairing	Disconnected
Alarm Sound	Emergency Siren
Display Brightness	FULL
Key Brightness	FULL
Hardware Version	Rev x.x
Firmware Version	XXXX

SETTINGS

Step 6
Shine the Flashing Pairing Light onto the Microphone IR Window

MIC 1	MIC 2	AUX	BT
Mic-in	Pairing	Line-in	Line-out

Flashing

Pairing

10cm

*Remove the cover

IR
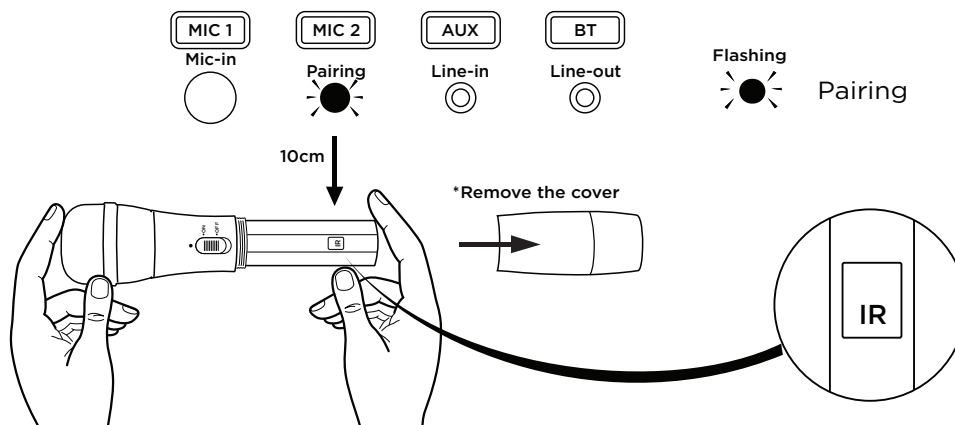
Getting Started

6. Pair the Bluetooth

Step 1
Press MENU button
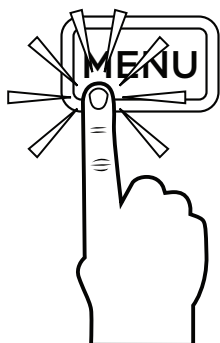
Step 2
<Select "Pair"> in Bluetooth Setting

MASTER ▮▮▮▮ 40% BATTERY ▮ 50% 8h20min

SETTINGS	Settings	
	Language	English
	RF Region	Mainland China
	Bluetooth	▸ Connected
	MIC1 Channel	CH1 (655.200MHZ)
	MIC1 Start Pairing	Connected (CH1)
	MIC2 Channel	CH2 (656.675MHZ)
	MIC2 Start Pairing	Disconnected
	Alarm Sound	Emergency Siren
	Display Brightness	FULL
	Key Brightness	FULL
	Hardware Version	Rev x.x
	Firmware Version	XXXX
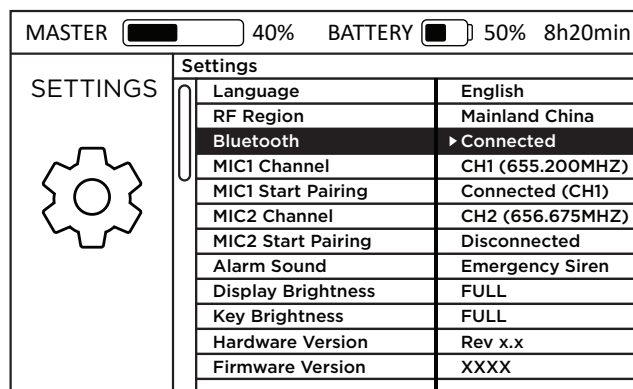
Step 3
Pair the Phone to "P200 PRO"
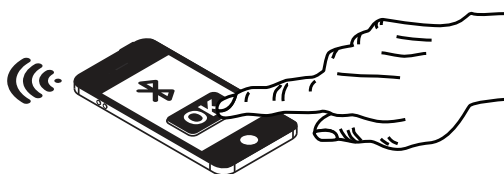
Step 4
Adjust the Bluetooth Source, Volume Level

Connected

BT
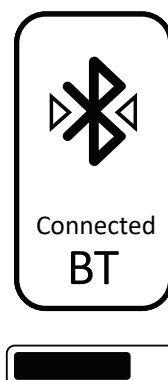
Control Panel & Information Display
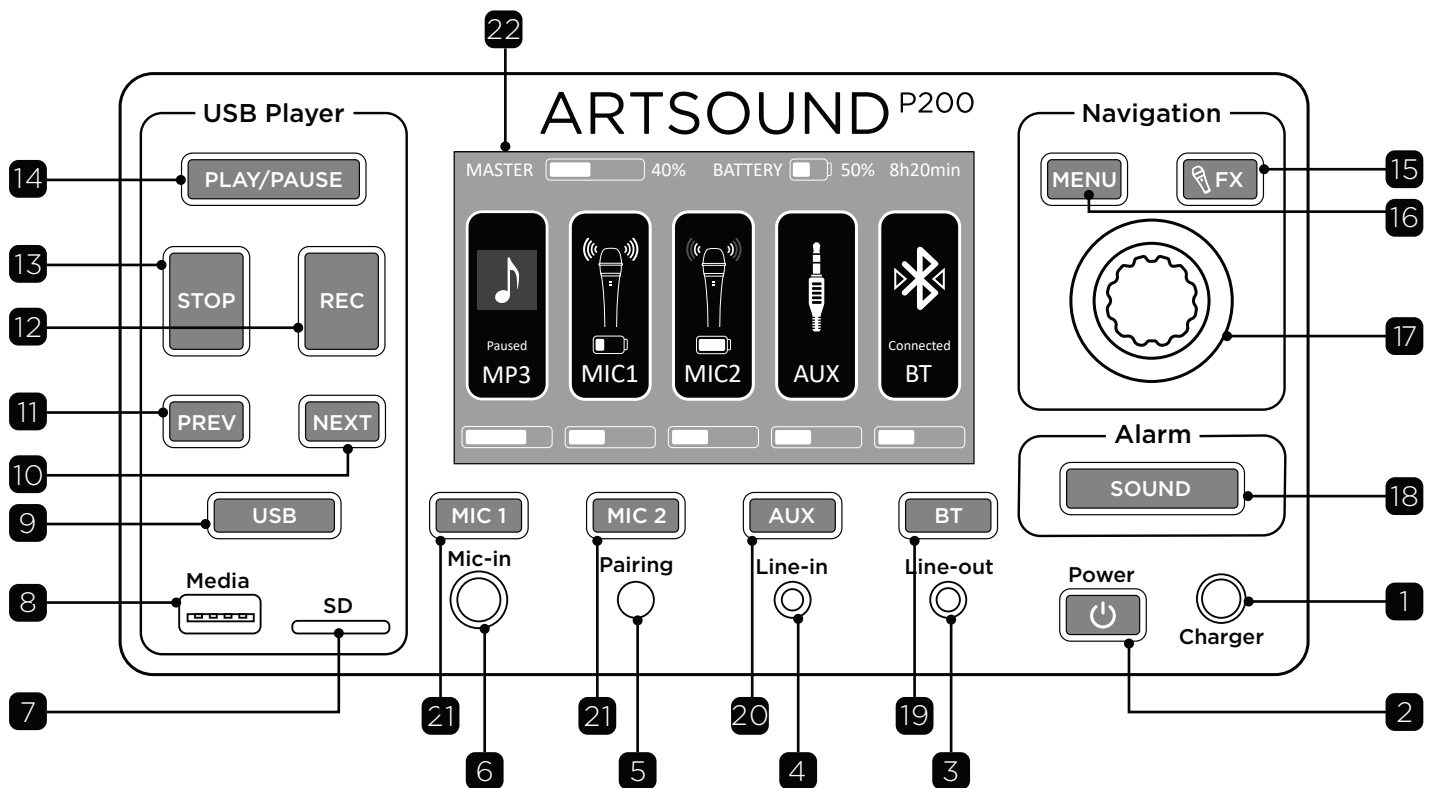
1 DC Charging Port

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 🎤 **FX Button**

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

16 **MENU Button**

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

17 **Navigation Rotary Dial**

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

18 **ALARM/SOUND Button**

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

19 **Bluetooth Source Button**

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

20 **AUX Input Button**

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

21 **MIC 1 & MIC 2 Source Button**

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

22 **High-Definition, Full-Color Information Display**

The 4" Full-Color Display provides an intuitive interface between the user and the many audio features of the P200 PRO

1 DC Charging Port

Charger
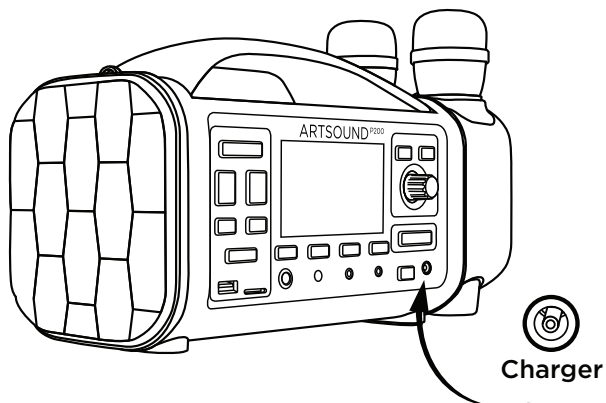
Port Function

- Connect 19VDC 45-Watt power supply for charging the battery
- P200 PRO can also operate from this power input when the battery is removed

3 Analog 3.5mm Line-Out Port

Line-out
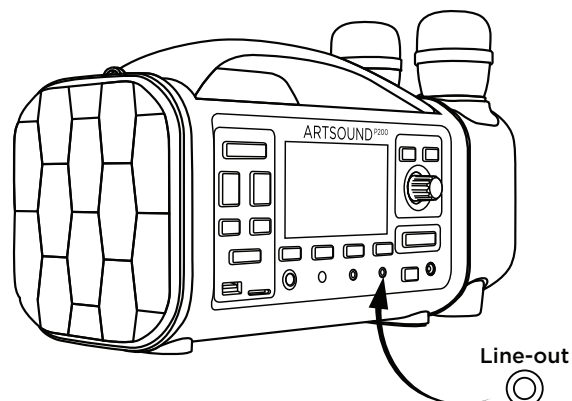
Port Function

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

2 Power Button
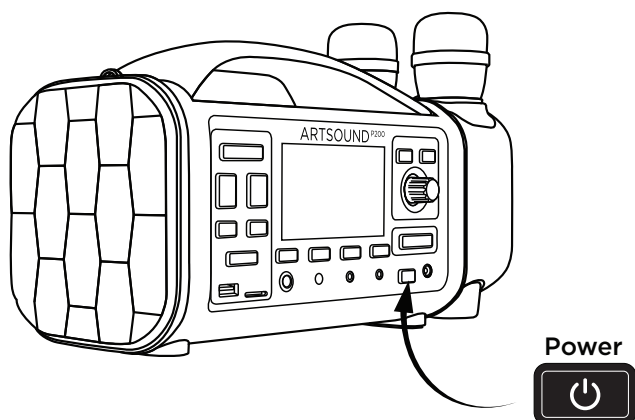
Power

Key Function (pressing action)

- Press 2s to power ON/OFF

Power

Press 2sec
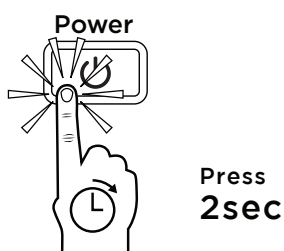
4 Analog 3.5mm Line-in Port

Line-in
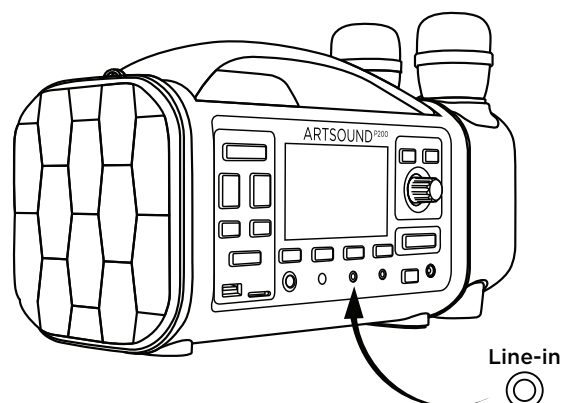
Port Function

- 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 P200 PRO to the M20 wirless 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.

Pairing

MIC 1	MIC 2	AUX	BT	
Mic-in	Pairing	Line-in	Line-out	Flashing

10cm

*Remove the cover

IR

Pairing
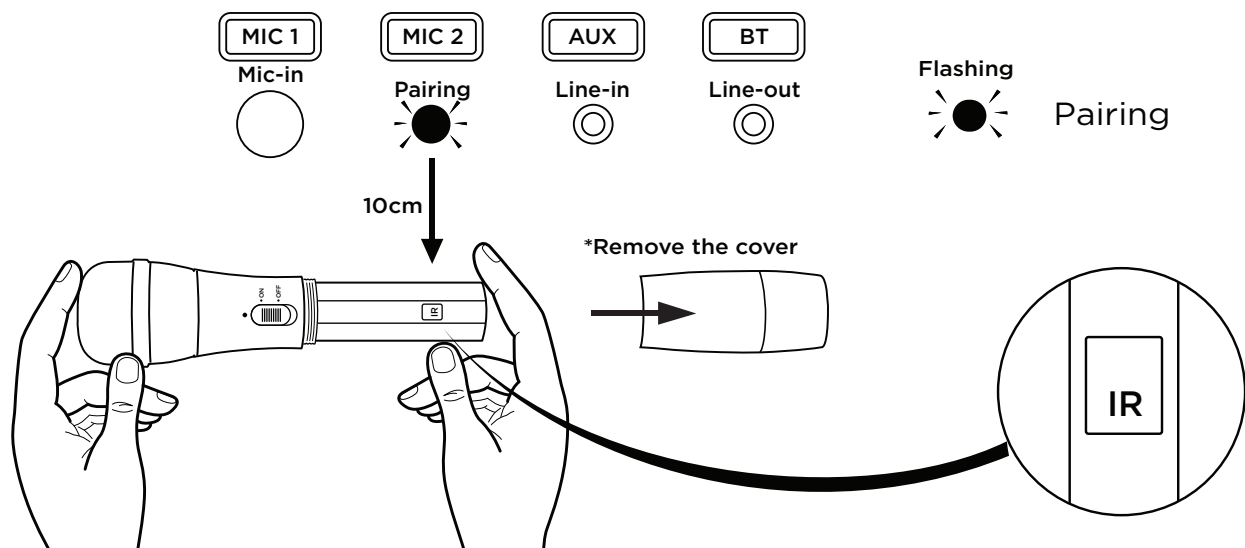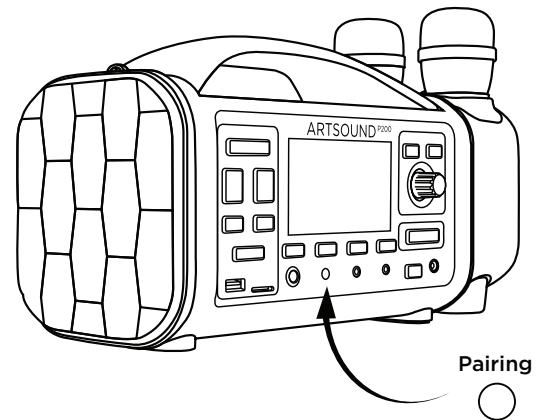
6 External Microphone ¼" Input Port

Mic-in
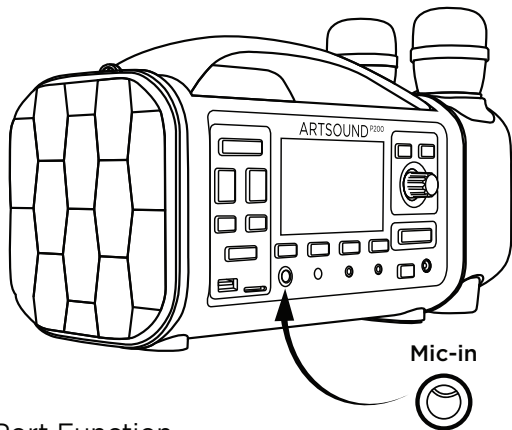
Port Function

- 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**

7 MicroSD Card Slot

SD

MICRO SD

Port Function

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

8 USB-A Port

Media

Port Function

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

Push to Install   **Push to Remove**
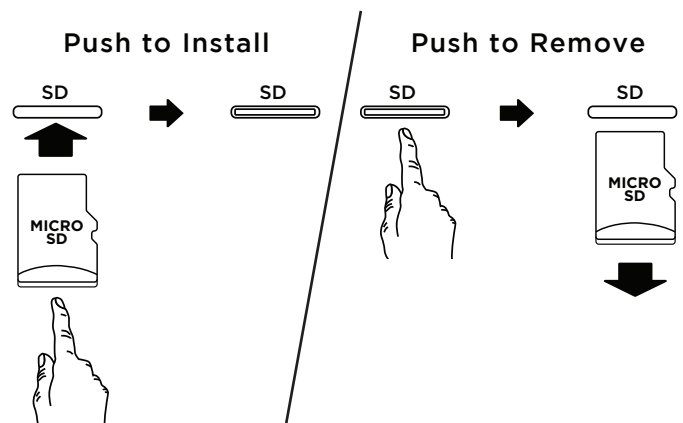
9 **[USB] Media Player Source Button**

By pressing the media player source button you will be taken to the media 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 until it is flashing. This button does not have a quick mute/unmute function. See the **Media Player Section** for more details. The button has an adjustable backlight brightness that can be controlled globally with other keys.

Key Function (pressing action)

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

Key Illumination (indicator)

- No Color: **Key Brightness** = OFF
- Blue: **Media Player** is Muted
- White: **Media Player** is Unmuted,
- White Flashing: while editing the **Media Player Volume Level**

Key Illumination Types

Backlight OFF

White: Media Player ON

USB

USB

Blue: Media Player OFF

White Flash:
Media Player Volume
Level Editing

USB

USB

Toggles between Media Player & Main Menu

USB
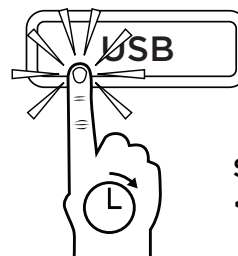
Short press
<1sec

Edit/Adjust Media Player Volume Level

Step 1

USB
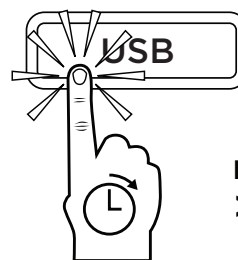
Long press
>2sec

Step 2

Adjust Volume Level
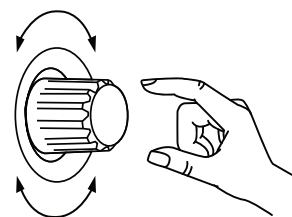
Press to Save
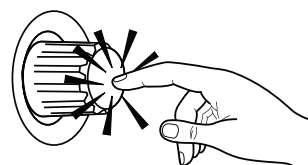
10 [NEXT] Next Track Button

While a track is currently being played in the media player, pressing the next [NEXT] track button will cause the media 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 on. The button has an adjustable backlight brightness that can be controlled globally with other keys.

Key Function (pressing action)

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

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

Key Illumination (indicator)

- No Color: **Key Backlight** = OFF
- Blue: adjustable **Key Brightness**
- White: while key is pressed

Key Illumination Types

Backlight OFF   White: Key is Pressed

NEXT   NEXT

Blue: Key Backlight

NEXT

Play the Next Track in the Playlist

NEXT
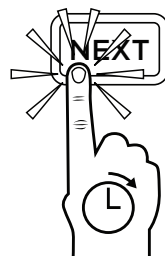
Short press
<1sec

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

NEXT
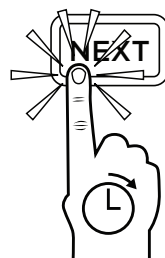
Long press
>2sec

Track list play
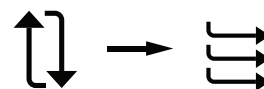
Single Track Loop
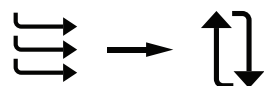
11 **[PREV] Previous Track Button**

While a track is currently being played in the media player, pressing the previous [PREV] track button will cause the media 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. The button has an adjustable backlight brightness that can be controlled globally with other keys.

Key Function (pressing action)

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

Key Illumination (indicator)

- No Color: **Key Backlight** = OFF
- Blue: adjustable **Key Brightness**
- White: while key is pressed

Key Illumination Types

Backlight OFF

PREV

White: Key is Pressed

PREV

Blue: Key Backlight

PREV

Play the Previous Track in the Playlist

PREV

Short press
<1sec

Rewinds the Media Player to Track #001

PREV

Long press
>2sec

Track List	001/049
▶ Music Childsoul - Umble Pie.mp3	
Red Eyed Pas - Imma Be Baby.mp3	
Childish Gambling.mp3	
French Tanamon - Wash U Well.mp3	
Future Past ft Micki Najmi.mp3	
Music Childsoul - Umble Pie.mp3	
Childish Gambling.mp3	
Red Eyed Pas - Imma Be Baby.mp3	
Future Past ft Micki Najmi.mp3	
French Tanamon - Wash U Well.mp3	
The Hardwork Song .mp3	
Downtown Funk.mp3	
That's What I Hate.mp3	
Shape Of Your Heart.mp3	

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 media 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. The button has an adjustable backlight brightness that can be controlled globally with other keys.

Key Function (pressing action)

-   Press: starts an MP3 recording session

Key Illumination (indicator)

-   No Color: **Key Backlight** = OFF
-   Blue: MP3 Player is NOT Recording
-   Red: MP3 Player is Recording

Key Illumination Types

Key Backlight OFF   Red: MP3 Recording

REC   REC
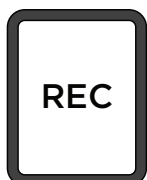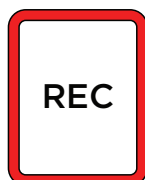
Blue: MP3 NOT Recording

REC

Starts an MP3 Recording Session

REC
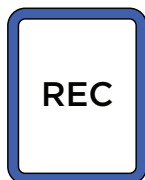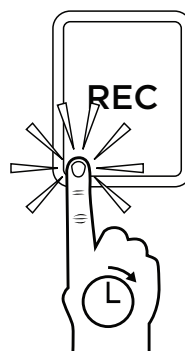
Short press
<1sec

13 [STOP] Stop Button

The stop button will be illuminated white color any time the media player has stopped all tracks and/or stopped recording. Use this 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 media player is "stopped" status on power up of the device. The button has an adjustable backlight brightness that can be controlled globally with other keys.

Stops the Track that is being Played or Recorded.

Short press
<1sec

Key Function (pressing action)

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

Key Illumination (indicator)

- No Color: **Key Backlight** = OFF
- Blue: media player is playing or recording
- White: media player is stopped

Key Illumination Types

Key Backlight OFF
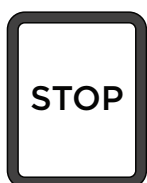
White: Player Stopped

Blue: Playing or Recording
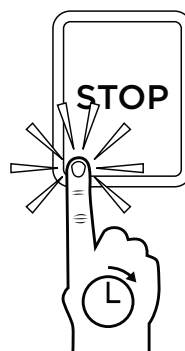
14 [Play/Pause] Button

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

Toggles Media Player Play / Pause State

PLAY/PAUSE

**Short press
<1sec**

Key Function (pressing action)

- Press: toggles media player play / pause state

Key Illumination (indicator)

- No Color: **Key Brightness** = OFF
- Blue: Media Player is not Playing
- White: Media Player is Playing
- White Flash: Media Player is Paused

Key Illumination Types

Key Brightness OFF

PLAY/PAUSE

White: Player is Playing

PLAY/PAUSE

Blue: Player not Playing

PLAY/PAUSE

White Flashing:
Media Player Paused
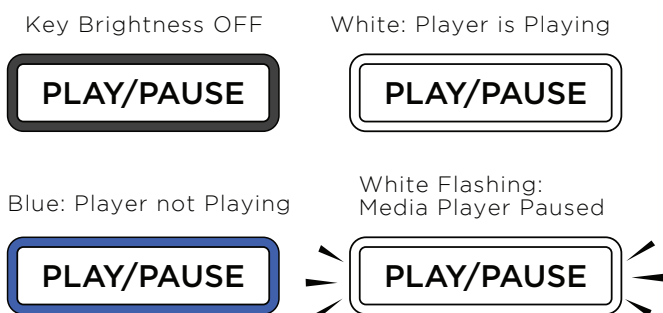
PLAY/PAUSE
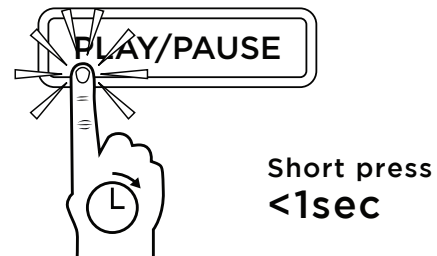
15 [🎤FX] Button

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. This button has an adjustable backlight brightness that can be controlled globally with other keys. 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**

Key Illumination (indicator)

- No Color: **Key Brightness** = OFF
- Blue: **FX Effects** applied to inputs are **Disabled**
- White: **FX Effects** applied to inputs are **Enabled**
- White Flashing: While in the **FX Editing Screen**

Key Illumination Types

Key Brightness OFF

White: FX Effect ON

Blue: FX Effect OFF

White Flashing: FX Editing

Toggle the FX Effects ON/OFF
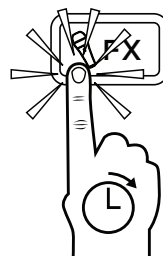
Short press
<1sec

Enter the FX Editing Screen
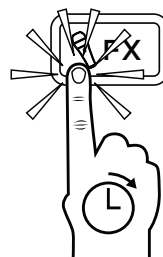
Long press
>2sec

Software Reset: restart the device
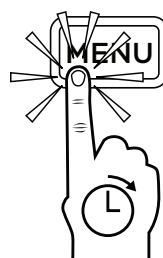
Together
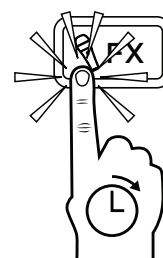
Short press
<1sec

Short press
<1sec

16 [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 media player screen and return back to the main menu screen. The button has an adjustable backlight brightness that can be controlled globally with other keys. 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**

Key Illumination (indicator)
- No Color: **Key Brightness** = OFF
- Blue: adjustable **Key Brightness**
- White: while in the settings menu screen

Key Illumination Types

Key Brightness OFF

White: Settings Menu Screen

Blue: Main Menu Screen

Toggles between the Main Menu & Settings Menu
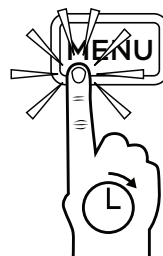
Short press
<1sec

Software Reset: restart the device
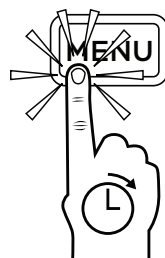
Together
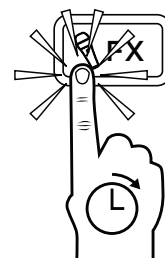
Short press
<1sec

Short press
<1sec

17 **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. The button has an adjustable backlight brightness that can be controlled globally with other keys.

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)

- No Color: **Key Brightness** = OFF
- Blue: adjustable **Key Brightness**
- 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:
Adjust Key Brightness
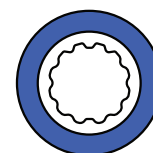
White:
While Dial Is Pressed
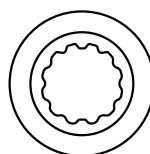
White Flashing:
Edit Highlighted Items
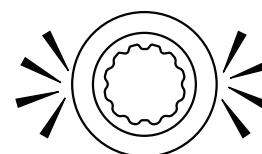
Red: Master mute

Red Flashing:
Action Denied or Errors
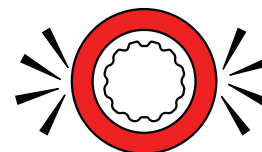
Rotate to Navigate Menus
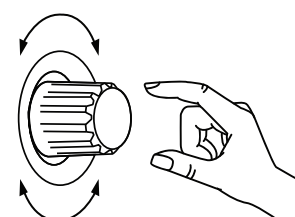
Press to Select Menu Items
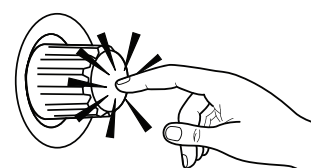
18 [SOUND] Alarm/Sound Button

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 **Alarm Sound Effect** Settings Menu Item for a list of alarm/siren effects available for this button. The Volume of the Siren/Alarm effect is controlled by the master volume level. The button has an adjustable backlight brightness that can be controlled globally with other keys.

Plays the Preselected Siren/Alarm Sound

Hold

Function (key press)

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

Key Illumination (indicator)

- No Color: **Key Brightness** = OFF
- Blue: adjustable **Key Brightness**
- Red: while key is pressed
- Red Flashing: when editing **Alarm Sound** in the **Settings Menu**

Key Illumination Types

Key Brightness OFF

SOUND

Red: Key is Pressed

SOUND

Blue:
Adjustable Key Brightness

SOUND

Red Flashing: Editing Alarm

SOUND

19 [BT] Bluetooth Source Button

This button allows the user to quickly mute (Disable) or unmute (Enable) the Bluetooth source. When the key is illuminated white color, this indicates that the Bluetooth source is unmuted in the mixer. If the key is blue color than the source is muted in the mixer. The volume of this source can be edited and adjusted by long pressing the key until it is flashing. Then you will be able to adjust the Bluetooth source volume level. The button has an adjustable backlight brightness that can be controlled globally with other keys.

Key Function (pressing action)

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

Key Illumination (indicator)

- No Color: **Key Brightness** = OFF
- Blue: **Bluetooth Source** is Muted
- White: **Bluetooth Source** is Unmuted
- White Flashing: while editing the **Bluetooth Source Volume Level** or while Bluetooth is pairing

Key Illumination Types

Key Brightness OFF

White:
Bluetooth Source ON

BT

BT

Blue:
Bluetooth Source OFF

White Flashing:
Bluetooth Volume Level
Editing or Pairing

BT

BT

Toggles Bluetooth Source between Mute & Unmute
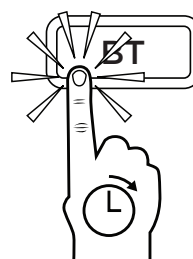
Short press
<1sec

Edit/Adjust Bluetooth Source Volume Level
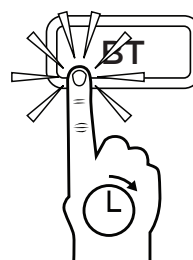
Long press
>2sec

Adjust Volume Level
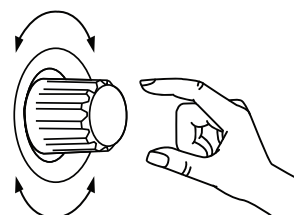
Press to Save
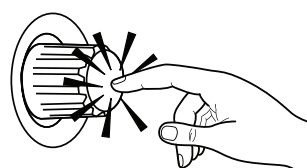
20 [AUX] Auxiliary Input Source Button

This button allows the user to quickly mute (Disable) or unmute (Enable) the ¼" microphone or auxiliary 3.5mm line-in source. When the key is illuminated white color, this indicates that the AUX input source is unmuted in the mixer. If the key is blue color than the source is muted. The volume of this source can be edited / adjusted by long pressing the key until it is flashing. Then you will be able to adjust the auxiliary source volume setting. The button has an adjustable backlight brightness that can be controlled globally with other keys.

Key Function (pressing action)

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

Key Illumination (indicator)

- No Color: **Key Brightness** = OFF
- Blue: **AUX Source** is Muted
- White: **AUX Source** is Unmuted
- White Flashing: while editing the **AUX Source Volume Level**

Key Illumination Types

Key Brightness OFF

White: AUX Source ON

AUX

AUX

Blue: AUX Source OFF

White Flashing:
AUX Source Volume
Level Editing

AUX

AUX

Toggles AUX Source between Mute & Unmute

AUX
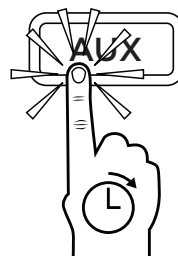
Short press
<1sec

Edit/Adjust AUX Source Volume Level

AUX
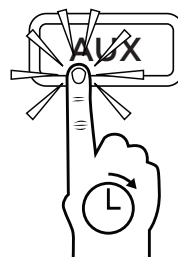
Long press
>2sec

Adjust Volume Level

Press to Save

21 **[MIC1 / MIC2] Wireless Microphone Source Button**

The MIC1 and MIC2 buttons allow the user to quickly mute (Disable) or unmute (Enable) the build-in wireless microphone receivers. When the key is illuminated white color, this indicates that the wireless microphone source is unmuted in the mixer. If the key is blue color then the wireless microphone source is muted. The volume of this source can be edited / adjusted by long pressing the key until it is flashing. Then you will be able to adjust the MIC1 or MIC2 source volume level. Additionaly when the MIC1 or MIC2 source becomes muted (disabled) the UHF radio for the affected microphone radio receiver will become shutdown and put into standby mode. This helps the speaker to save power when either 1 or 2 of the wireless microphones are not in use. Turning off MIC1 and/or MIC2 when not using them, will significantly increase the music playing time. The button has an adjustable backlight brightness that can be controlled globally with other keys.

Key Function (pressing action)

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

Key Illumination (indicator)

-   No Color: **Key Brightness** = OFF
-   Blue: Wireless **MIC UHF Receiver** is Muted, and the UHF Radio CH# is in Standby
-   White: Wireless **MIC UHF Receiver** is Unmuted, and the UHF Radio CH# is ON
-   White Flashing: while editing the **MIC UHF Receiver Volume Level** or MIC is Pairing

Key Illumiation Types

Key Brightness OFF

White:
MIC# Receiver ON

MIC

MIC

Blue:
MIC# Receiver OFF

White Flashing:
MIC# Receiver Volume
Level Editing or Pairing

MIC

MIC

Toggles MIC# Source between Mute & Unmute

MIC
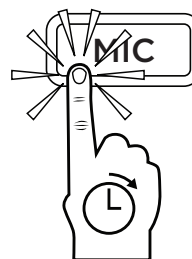
Short press
<1sec

Edit/Adjust MIC# UHF Receiver Volume Level

MIC
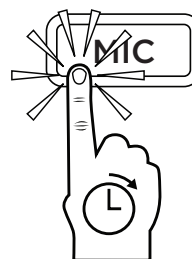
Long press
>2sec

Adjust Volume Level
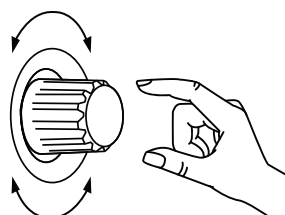
Press to Save
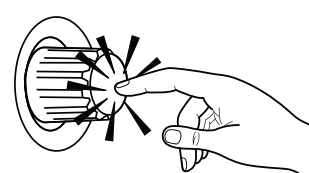
Information Display - Main Menu

22   4" Full Color LCD Display

MASTER ▬▬▬ 40%   BATTERY ▮ 50%   8h20min

MP3   MIC1   MIC2   AUX   BT

Paused   Connected
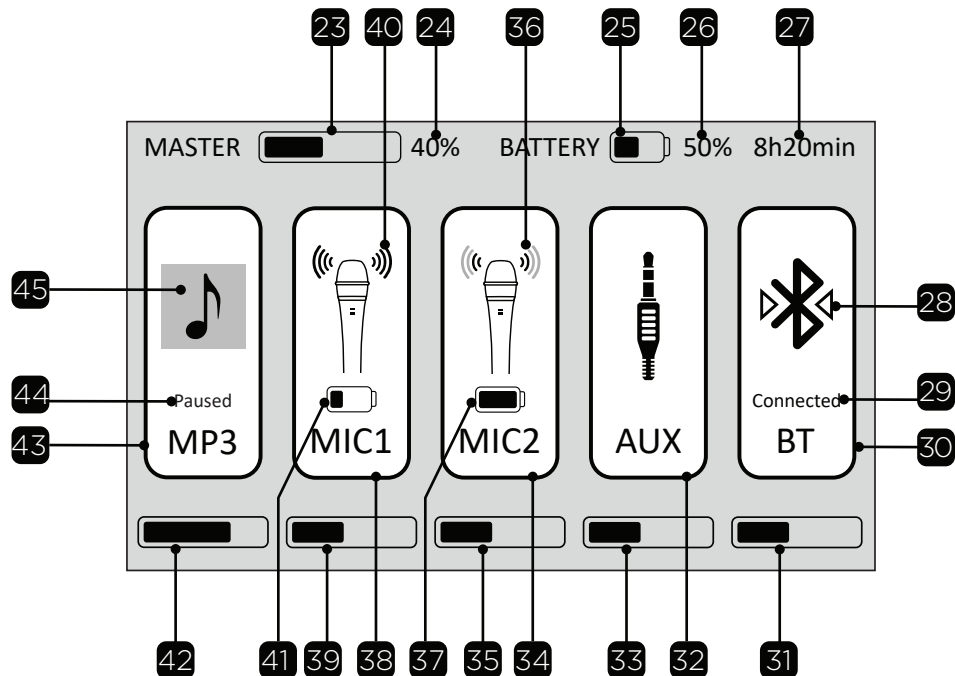
23   **Master Volume**

Icon colors: Blue or White
- Blue: Master Volume is not selected for editing
- White: Master Volume is selected for editing and the level can be adjusted using the navigation rotary dial
- See Volume Level Indication

24   **Master Volume Level %**

Icon colors: White
- Always display the Master Amplifier gain in (%) format

25   **Battery Level Icon**

Icon colors: Green / Orange / Red
- Graphically displays the battery level
- See Battery Level Indication

26   **Battery Level %**

Icon colors: White
- Always display the Battery Level in (%) format

27   **Battery State Message**

Icon colors: White / Red
- Provides estimate remaining battery time
- Provides error & battery status messages
- See Battery Time Remaining

28   **Bluetooth State Icon**

Icons: 3-States
- Icon updates depending on the Bluetooth status
- See Bluetooth State Indication

29   **Bluetooth Status Message**

Icon colors: Green / Blue / Red
- Green: Bluetooth connection is active
- Blue: while in pairing process
- Red: Bluetooth Disconnected
- See Bluetooth Status Message

30   **Mixer Source - Bluetooth**

Icon colors: Blue / White
- Blue: Bluetooth source is not selected for editing
- White: Bluetooth source is selected for editing and the level can be adjusted using the navigation rotary dial
- See Volume Level indication

31   **Mixer Volume - Bluetooth**

Icon colors: Blue / White / Red
- Displays the Bluetooth source mixer volume setting
- Blue: Bluetooth source is not selected for editing
- White: Bluetooth source is selected for editing and the level can be adjusted using the navigation rotary dial
- Red: Bluetooth source is Muted
- See Volume Level Indication

32   **Mixer Source - Aux**

Icon colors: Blue / White
- Blue: Auxiliary source are not selected for editing
- White: Auxiliary source are selected for editing and the level can be adjusted using the navigation rotary dial
- See Volume Level indication

33   **Mixer Volume - Aux**

Icon colors: Blue / White / Red
- Displays the Auxiliary source's mixer volume setting
- Blue: Auxiliary source's is not selected for editing
- White: Auxiliary source's is selected for editing and the level can be adjusted using the navigation rotary dial
- Red: Auxiliary source is Muted
- See Volume Level Indication

Information Display - Features

34 **Mixer Source - Wireless MIC 2**

Icon colors: Blue / White
- Blue: Wireless MIC 2 source is not selected for editing
- White: Wireless MIC 2 source is selected for editing and the level can be adjusted using the navigation rotary dial
- See Volume Level indication

35 **Mixer Volume - Wireless MIC 2**

Icon colors: Blue / White / Red
- Displays the Wireless MIC 2 source mixer volume setting
- Blue: Wireless MIC 2 source is not selected for editing
- White: Wireless MIC 2 source is selected for editing and the level can be adjusted using the navigation rotary dial
- Red: Wireless MIC 2 source is Muted
- See Volume Level Indication

36 **Wireless MIC 2 - RSSI Signal Level**

Icon status - 5 levels
- Displays the Wireless MIC 2, UHF Signal level , in colored bar format
- See Wireless Microphone RSSI Level Indicator

37 **Wireless MIC 2 - Battery Level**

Icon colors: Green / Orange / Red
- Graphically display the MIC 2 battery level
- See Battery Level indication

38 **Mixer Source - Wireless MIC 1**

Icon colors: Blue / White
- Blue: Wireless MIC 1 source is not selected for editing
- White: Wireless MIC 1 source is selected for editing and the level can be adjusted using the navigation rotary dial
- See Volume Level indication

39 **Mixer Volume - Wireless MIC 1**

Icon colors: Blue / White / Red
- Displays the Wireless MIC 1 source mixer volume setting
- Blue: Wireless MIC 1 source is not selected for editing
- White: Wireless MIC 1 source is selected for editing and the level can be adjusted using the navigation rotary dial
- Red: Wireless MIC 1 source is Muted
- See Volume Level Indication

40 **Wireless MIC 1 - RSSI Signal Level**

Icon status - 5 levels
- Displays the Wireless MIC 1, UHF Signal level , in colored bar format
- See Wireless Microphone RSSI Level Indicator

41 **Wireless MIC 1 - Battery Level**

Icon colors: Green / Orange / Red
- Graphically display the MIC 1 battery level
- See Battery Level indication

42 **Mixer Volume - Media Player**

Icon colors: Blue / White / Red
- Displays the Media Player source mixer volume setting
- Blue: Media Player source is not selected for editing
- White: Media Player source is selected for editing and the level can be adjusted using the navigation rotary dial
- Red: Media Player source is Muted
- See Volume Level Indication

43 **Mixer Source - Media Player**

Icon colors: Blue / White
- Blue: Media Player source is not selected for editing
- White: Media Player source is selected for editing and the level can be adjusted using the navigation rotary dial
- See Volume Level indication

44 **Media Player Status**

Icon colors: Green / Red
- Green: while Media Player is playing
- Red: when Media Player is stopped / pause or recording
- See Media Player indication

45 **MP3 Album Cover (when available)**

Icon (Image 200*200pix)
- Displays the MP3 Album cover when available. Otherwise, it shows a generic icon
- Recordings will display & add the Artsound logo

Information Display - Music Player Menu

MASTER [____] 40% BATTERY [__] 50% 8h20min

Track List   007/049

| Music Childsoul - Umble Pie.mp3 |
| Red Eyed Pas - Imma Be Baby.mp3 |
| Childish Gambling.mp3 |
| French Tanamon - Wash U Well.mp3 |
| Future Past ft Micki Najmi.mp3 |
| Music Childsoul - Umble Pie.mp3 |
| Childish Gambling.mp3 |
| Red Eyed Pas - Imma Be Baby.mp3 |
| Future Past ft Micki Najmi.mp3 |
| French Tanamon - Wash U Well.mp3 |
| The Hardwork Song .mp3 |
| Downtown Funk.mp3 |
| That's What I Hate.mp3 |
| Shape Of Your Heart.mp3 |

NOW PLAYING
Future Past ft Micki Najmi.mp3

01M :04S

Mic 1   Mic 2   Bluetooth

Connected

---

46 Player Track Title

- Displays the Current Playing Track Title

47 Player State Icon

- Displays the playing state of the Music Player

48 Track Timer

- Displays the Current Position in the audio file playback.
- While Playing & Recording this shows the Count Up Time Duration
- Flash Timer When the Track is Paused

49 Media Player Looping Mode

- Can select if a single track is repeated automatically or if the next track is played automatically

50 Track list Item

- The Menu Item has an alternating gray background to make it easy to see separated lines.
- When selected the colors invert to illustrate a highlighted item in the menu

51 Next Track Selection Marker

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

52 Current Playing Track Marker

- Shows the current state of the track in the playlist

53 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

54 Track Index and Total Track Counter

- Left Number shows the Index in the Playlist.
- The index is based on the cursor position (next track selection cursor)
- Right Number displays to total tracks in the album/folder

Information Display - Settings Menu

23 24   25 26 27

| MASTER | ▮▮▮ | 40% | BATTERY | ▮ | 50% | 8h20min |

Settings		
SETTINGS	Language	English
	RF Region	Mainland China
	Bluetooth	Disconnected
	MIC1 Channel	▶ CH1 (655.200MHZ)
	MIC1 Start Pairing	Disconnected
	MIC2 Channel	CH2 (656.675MHZ)
	MIC2 Start Pairing	Disconnected
	Alarm Sound	Emergency Siren
	Display Brightness	FULL
	Key Brightness	FULL
	Hardware Version	Rev x.x
	Firmware Version	XXXX

55 56   57   58

55 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

56 Highlighted Items Settings

- The Menu Item has an alternating gray background to make it easy to see separated lines.
- When selected, the colors invert to illustrate a highlighted item in the menu
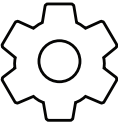
57 Edit Item Indicator

- If the item can be edited a triangle icon is shown and the user can adjust the selected item
- If the item is static "example: firmware version" then the triangle icon will not display

58 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

Settings	
Language	English
RF Region	Mainland China
Bluetooth	Connected
MIC1 Channel	CH1 (655.200MHZ)
MIC1 Start Pairing	Connected (CH1)
MIC2 Channel	CH2 (656.675MHZ)
MIC2 Start Pairing	Disconnected
Alarm Sound	Emergency Siren
Display Brightness	FULL
Key Brightness	FULL
Hardware Version	Rev x.x
Firmware Version	XXXX
Serial Number	AABBCCDDEEFF
Power Consumption	xx.xx Watts
Battery Calibration	
Factory Reset	

MASTER 40%   BATTERY 50% 8h20min

SETTINGS

Language

User can select the Information Display language
- English
-
- Italiano

** 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 divice)
3. Disconnect (remove the previously paired divice)

Wireless Microphone 1 & 2 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 1 & 2 Start Pairing Process

After Selecting the Desired Channel Frequency from the above menu item. Pair and Syncronize 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 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

Key Brightness

User can choose form the 5 key backlight brightness levels
1. FULL (maximum outdoor brightness)
2. High
3. Medium
4. Low
5. OFF (disables key backlight for maximum power savings)

**Key backlight 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 Number

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

Information Display - Battery Level Display

```
┌─────────────────────────────────────────────────────────────┐
│ MASTER [████    ] 40%   BATTERY [██ ] 50%  8h20min           │
├──────────────────────────────┬──────────────────────────────┤
│ Track List        007/049    │ NOW PLAYING                   │
│   Music Childsoul - Umble Pie.mp3 │ Future Past ft Micki Najmi.mp3 │
│   Red Eyed Pas - Imma Be Baby.mp3 │                          │
│   Childish Gambling.mp3      │  ▶                    ♪       │
│   French Tanamon - Wash U Well.mp3 │ 01ₘ:04ₛ ⇅              │
│ ▶ Future Past ft Micki Najmi.mp3 │                          │
│   Music Childsoul - Umble Pie.mp3 │ Mic 1   Mic 2   Bluetooth │
│ ▸ Childish Gambling.mp3      │ ((•))   ((•))                 │
│   Red Eyed Pas - Imma Be Baby.mp3 │                    ✳     │
│   Future Past ft Micki Najmi.mp3 │                          │
│   French Tanamon - Wash U Well.mp3 │                        │
│   The Hardwork Song .mp3     │  ▬      ▬      Connected       │
│   Downtown Funk.mp3          │                               │
│   That's What I Hate.mp3     │                               │
│   Shape Of Your Heart.mp3    │                               │
└──────────────────────────────┴──────────────────────────────┘
```

Battery Charing Icon

Function
- Anytime the charger is connected, and the battery is not "full" indicate this charging icon
- Time Remaining Text = "Charging"

Battery Full 100%

Function
- If charger is connected, and battery charging has completed
- Time Remaining Text = "Full"
- If Battery Level is >75%

Battery High 75%

Function
- If Battery Level is >50% between ≤75%

Battery High 50%

Function
- If Battery Level is >25% between ≤50%

Battery High 25%

Function
- If Battery Level is >10% between ≤25%

Battery Low 10%

Function
- If Battery Level is >2% between ≤10%

Battery Empyt 0% or Battery Error

Function
- If Battery removed or charger error occurs
- Flash Icon
- Time Remaining Text = "Error"

Battery Estimated Time Remaining Dynamic Text

Function: Normal
- Display the estmated operational time remaining based on historical battery tracking
- When Firmware is first programmed, reset the total time estimate and initiate a calibration process
- Calibration can also be manually started in the Settings Menu
- Continue tracking the battery state during normal use of the product to create a running average

Function: Message Display
- Displays Remaining time in "*h**min" format, in green color
- Displays "Charging" in orange color
- Displays "Full" in green color
- Displays "Empty" in red color
- Displays "Error" in red color

Function: Calibration
- Displays "Calibrating..." in Time Remaining Text
- Step1: Fully Charge the unit
- Step2: Let the product fully discharge
- Repeat above steps 3 times
- MCU Calculates the total number minutes from fully charged to fully discharged

Information Display - Bluetooth Status indication

MASTER ▮▮▮▮ ⎯ 40%   BATTERY ▮▯ 50% 8h20min

Track List	007/049
Music Childsoul - Umble Pie.mp3	
Red Eyed Pas - Imma Be Baby.mp3	
Childish Gambling.mp3	
French Tanamon - Wash U Well.mp3	
▶ Future Past ft Micki Najmi.mp3	
Music Childsoul - Umble Pie.mp3	
▶ Childish Gambling.mp3	
Red Eyed Pas - Imma Be Baby.mp3	
Future Past ft Micki Najmi.mp3	
French Tanamon - Wash U Well.mp3	
The Hardwork Song .mp3	
Downtown Funk.mp3	
That's What I Hate.mp3	
Shape Of Your Heart.mp3	

NOW PLAYING
Future Past ft Micki Najmi.mp3

▶
01$_M$:04$_S$ ⇅

Mic 1   Mic 2   Bluetooth

Connected

Disonnected   **Pairing**   **Connected**

Bluetooth Icon States

State: Disconnected
-    Display White Bluetooth Icon
-    Display "Disconnected" State Text in Red Color

State: Pairing (during pairing process)
-    Display Blue Bluetooth Icon
-    Display "Pairing" State Text **Flashing** in Blue Color

State: Connected
-    Display Blue Filled Bluetooth Icon with connected triangles
-    Display "Connected" State Text in Green Color

Information Display - Music Player Menu

MASTER	40%	BATTERY	50%	8h20min

Track List   **007/049**

- Music Childsoul - Umble Pie.mp3
- Red Eyed Pas - Imma Be Baby.mp3
- Childish Gambling.mp3
- French Tanamon - Wash U Well.mp3
- ▶ Future Past ft Micki Najmi.mp3
- Music Childsoul - Umble Pie.mp3
- ▶ Childish Gambling.mp3
- Red Eyed Pas - Imma Be Baby.mp3
- Future Past ft Micki Najmi.mp3
- French Tanamon - Wash U Well.mp3
- The Hardwork Song .mp3
- Downtown Funk.mp3
- That's What I Hate.mp3
- Shape Of Your Heart.mp3

NOW PLAYING
Future Past ft Micki Najmi.mp3

▶ 01M :04S ⇅

Mic 1   Mic 2   Bluetooth

Connected

-65db	-70db	-75db	-80db	-85db	LOS
Excellent	Good	Poor	Low	Bad	Loss of signal

Microphone Icon States

State: Good Signal
- Display the Signal Level in "db"
- RSSI level is displayed in Green Color

State: Poor Signal
- Display the Signal Level in "db"
- RSSI level is displayed in Orange Color

State: Low Signal
- Display the Signal Level in "db"
- RSSI level is displayed in Red Color

State: Loss of Signal "LOS"
- We use the greyed icon when the signal is too low, and the microphone is considered either "powered off" or out od range

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**

<u>In the Settings Menu you can View & Adjust</u>
1. Display Language
2. RF Receiver Region (View Only)
3. Bluetooth Pairing & Status
4. Wireless MIC #1 Channel & Frequency
5. Wireless MIC #1 Pairing & Status
6. Wireless MIC #2 Channel & Frequency
7. Wireless MIC #2 Pairing & Status
8. Alarm Sound
9. LCD Display Brightness
10. Key Backlight Brightness
11. Hardware Version (View Only)
12. Firmware Version (View Only)
13. Serial Number (View Only)
14. Power Consumption (View Only)
15. Battery Calibration
16. Factory Reset

MASTER	40%	BATTERY	50% 8h20min

SETTINGS	Settings	
	Language	English
	RF Region	Mainland China
	Bluetooth	Connected
	MIC1 Channel	CH1 (655.200MHZ)
	MIC1 Start Pairing	Connected (CH1)
	MIC2 Channel	CH2 (656.675MHZ)
	MIC2 Start Pairing	Disconnected
	Alarm Sound	Emergency Siren
	Display Brightness	FULL
	Key Brightness	FULL
	Hardware Version	Rev x.x
	Firmware Version	XXXX
	Serial Number	AABBCCDDEEFF
	Power Consumption	xx.xx Watts
	Battery Calibration	
	Factory Reset	

1. Enter/Exit Setting Menu

2. Preview Option
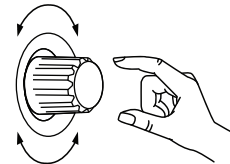
3. Select/Edit Options
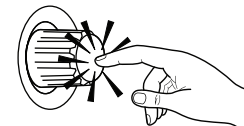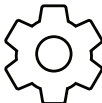
Changing the Device Language

The P200 PRO 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.

MASTER ▮▮▮▮▮ 40% BATTERY ▮▮ 50% 8h20min	
Settings	
Language	▶ English
RF Region	Mainland China
Bluetooth	Connected
MIC1 Channel	CH1 (655.200MHZ)
MIC1 Start Pairing	Connected (CH1)
MIC2 Channel	CH2 (656.675MHZ)
MIC2 Start Pairing	Disconnected
Alarm Sound	Emergency Siren
Display Brightness	FULL
Key Brightness	FULL
Hardware Version	Rev x.x
Firmware Version	XXXX
Serial Number	AABBCCDDEEFF
Power Consumption	xx.xx Watts
Battery Calibration	
Factory Reset	

(SETTINGS icon shown at left of table)

1. Enter Setting Menu

2. Navigate To Language Option
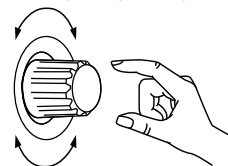
3. Select/Modify Language Setting
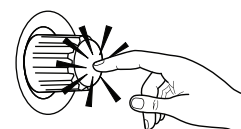
4. Preview Desired Language
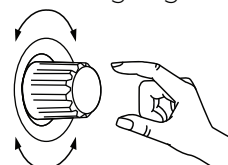
5. Select Desired Language
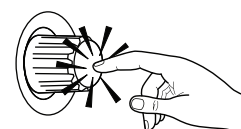
6. Exit Setting Menu
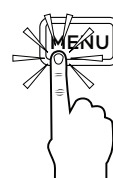
RF Receiver Region

The P200 wireless UHF receiver incorporate true-diversity dual (2) antenna technology per channel 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.

MASTER ▮▮▮▮▮ 40% BATTERY ▮ ⌐ 50% 8h20min		
SETTINGS	**Settings**	
⚙	Language	English
	RF Region	▸ Mainland China
	Bluetooth	Connected
	MIC1 Channel	CH1 (655.200MHZ)
	MIC1 Start Pairing	Connected (CH1)
	MIC2 Channel	CH2 (656.675MHZ)
	MIC2 Start Pairing	Disconnected
	Alarm Sound	Emergency Siren
	Display Brightness	FULL
	Key Brightness	FULL
	Hardware Version	Rev x.x
	Firmware Version	XXXX
	Serial Number	AABBCCDDEEFF
	Power Consumption	xx.xx Watts
	Battery Calibration	
	Factory Reset	

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
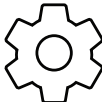
Bluetooth Pairing

The P200 PRO can pair with Bluetooth Audio Sources to stream A2DP music and audio

To pair the Bluetooth of the P200 PRO:
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 "**P200 PRO**" 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 P200 PRO 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	▮▮	40%	BATTERY ▮	50% 8h20min

Settings		
SETTINGS	Language	English
	RF Region	Mainland China
	Bluetooth	▸ Connected
	MIC1 Channel	CH1 (655.200MHZ)
	MIC1 Start Pairing	Connected (CH1)
	MIC2 Channel	CH2 (656.675MHZ)
	MIC2 Start Pairing	Disconnected
	Alarm Sound	Emergency Siren
	Display Brightness	FULL
	Key Brightness	FULL
	Hardware Version	Rev x.x
	Firmware Version	XXXX
	Serial Number	AABBCCDDEEFF
	Power Consumption	xx.xx Watts
	Battery Calibration	
	Factory Reset	

Wireless MIC Channel & Frequency

The P200 Wireless UHF Microphones and Receiver have up to 12/16 preset channels that can be selected based on the country / region.

The P200 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 P200 PRO 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 P200 PRO 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 P200 PRO for Automatic Channel Analyzing
   a. Press the **MENU** Button to enter the Settings Menu
   b. Decide which Receiver to pair the Microphone too: MIC1? or MIC2?
   c. Rotate the Navigation Dial to highlight the desired **MIC# Receiver** from the Settings List
   d. Press the Navigation Dial to Select the **MIC# 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# 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 MIC1 or MIC2, the P200 will immediately enter the microphone pairing process.
   e. Place the M20 microphone within 5" (10cm) from the blinking pairing light on the P200 PRO. This will allow the P200 PRO 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 P200 PRO will display **Connected CH#** in the **MIC# Start Pairing** option
   g. You will see the updated Channel and Frequency that the P200 PRO has determined to be the most optimal in the **MIC# Receiver** options list
   h. If the display says **Disconnected** in the **MIC# Start Pairing** option after the pairing process has completed and the LED Pairing Light has stopped blinking, than the communication from the P200 PRO 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 P200 PRO's Frequency / Channel
    a. Press the **MENU** Button to enter the Settings Menu
    b. Decide which Receiver to pair the Microphone too: MIC1? or MIC2?
    c. Rotate the Navigation Dial to highlight the desired **MIC# Receiver** from the Settings List
    d. Press the Navigation Dial to Select the **MIC# Channel** you want to change
    e. Rotate the Navigation Dial and select **CH#** Channel Number and Frequency from the Settings List
    f. 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# Start Pairing** option from the Settings List
    b. Press the Navigation Dial to Initiate the pairing process
    c. Place the M20 microphone within 10" (20cm) from the blinking pairing light on the P200 PRO. This will allow the P200 PRO 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 P200 PRO will display **Connected CH#** in the **MIC# Start Pairing** option
    e. If the display says **Disconnected** in the **MIC# Start Pairing** option after the pairing process has completed and the LED Pairing Light has stopped blinking, than the communication from the P200 PRO to the M20 Microphone was unsuccessful and you will need to perform the manual pairing process again

Microphone/Input Voice Enhancer – 🎤 FX Button

The P200 PRO 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 MIC1 & MIC2 as well as the Mic-In and Line-In analog input connections
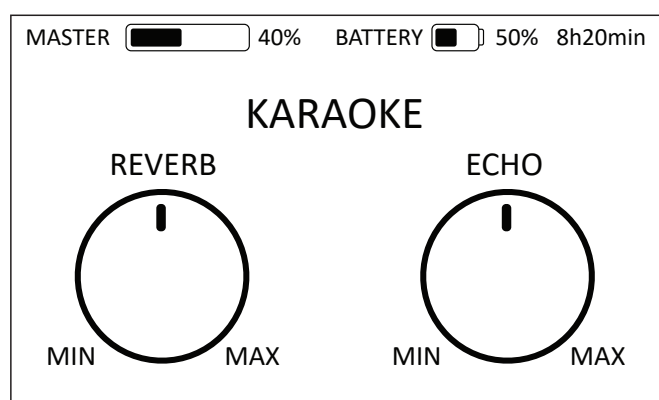
Turning ON/OFF the FX Effects
• Short Press The 🎤 **FX Button** to toggle the Input effects ON or OFF

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
• Wireless MIC 2

Toggle the FX Effects ON/OFF

Short press
<1sec

Enter the FX Editing Screen

Long press
>2sec

Technical Specifications

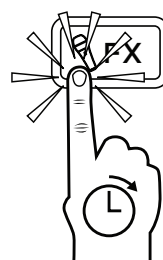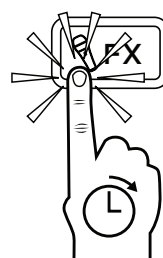| P200 PRO	
System	
Model Number	P200 PRO
CPU System	Dual Core, 1.0Ghz, 64MB RAM
Display	4.0" Full-Color, IPS, 800*480pix
Features	Audio/Visual Media Player, True-Diversity Dual UHF Receivers, Bluetooth, Analog 3.5mm, ¼" Microphone & 5-Channel Mixer. Siren, Alarm and Microphone Effects
Interface	Adjustable Backlight Keypad Adjustable Brightness Display 2-Axis Navigation control USB & MicroSD Removable Media
Media Player	
Controls	Play/Pause, Stop, Record, Previous & Next Track, Track/Playlist Repeat
Media 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
Bitrates Supported	32-320kbps
Audio Formats	MP3, WAV, AAC
Record Feature	Encoded to MP3
Audio	
Amplifier Rated Power	50 Watt
Frequency Response	35 - 18,000 Hz ± 3dB
Max SPL[1]	105 dB
Driver	5" 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 5 Channel Mixer

Bluetooth Wireless	
Bluetooth Version	V5.3
Bluetooth Profile	A2DP, AVRCP, SBC, AAC
Frequency Band	2.400GHz - 2.483GHz ISM Band / 20dBm (Class 2)
Bluetooth Range	10 m / 30 ft (free space)
UHF Wireless	
RF Technology	Analog UHF True Diversity Receivers 4-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	(2) M20 Wireless Microphones (1) Integrated 5/8" Tripod Mount[2] (1) Detachable Shoulder Strap
Battery Pack	Removable / Replaceable Lithium-Ion Battery Pack INR26650-4S1P 14.4V @ 5,000mAh, 72.0Wh
Charging Time	Approx. 3hrs
Autonomous time[3]	Approx. 16hrs
Power Supply	100-240VAC @ 50/60Hz 19VDC @ 2.5A (47-Watts)
Dimensions (WxHxD)	148(W) x 148(H) x 296(D) mm
P200 Weight[4]	2.2 kg
All-in-One Weight[5]	2.7 kg

[1] Maximum SPL at 1 m 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 P200 & Battery (not include microphones)

[5] Gross Weight Including two (2) M20 Microphones and Batteries

Technical Specifications

M20 Microphone	
System	
Model Number	M20
Microphone Type	Dynamic
Frequency Response	40-18,000 Hz
UHF Transmission Range	Dynamic
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	Removable / Replaceable Lithium-Ion Battery 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

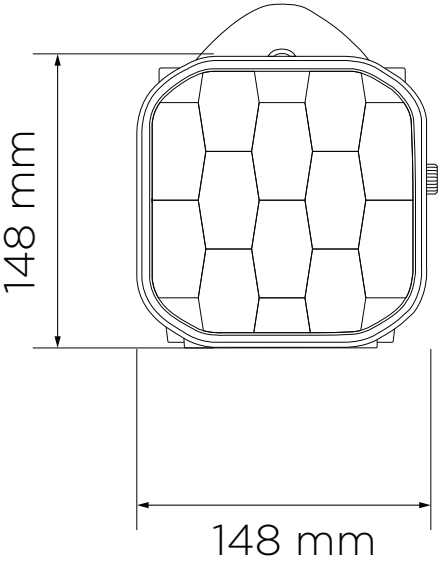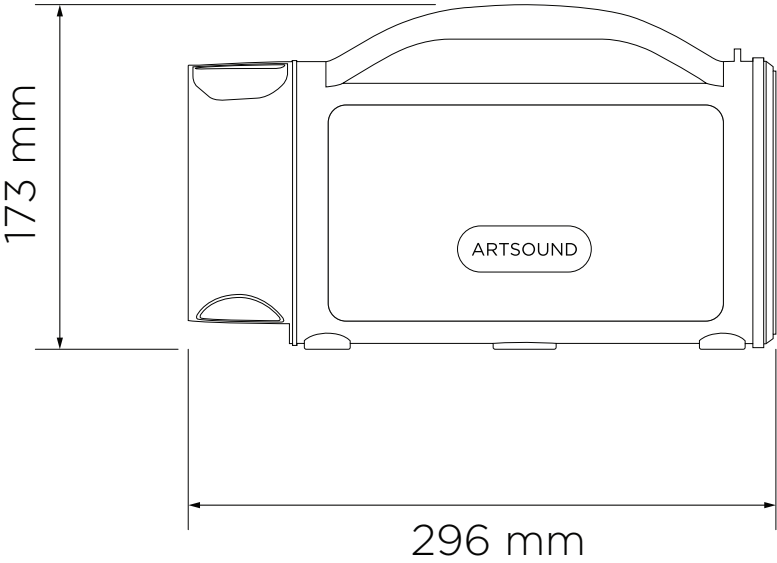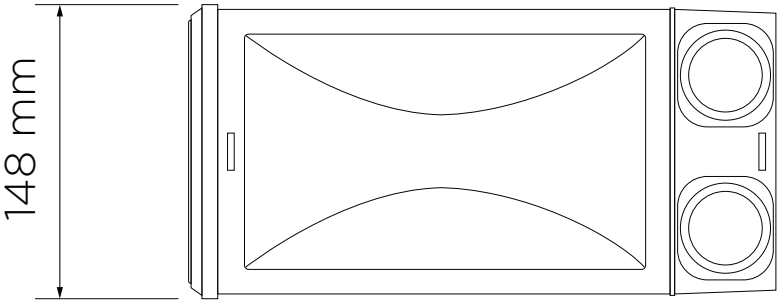[3] Gross Weight Including Removable Battery

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.
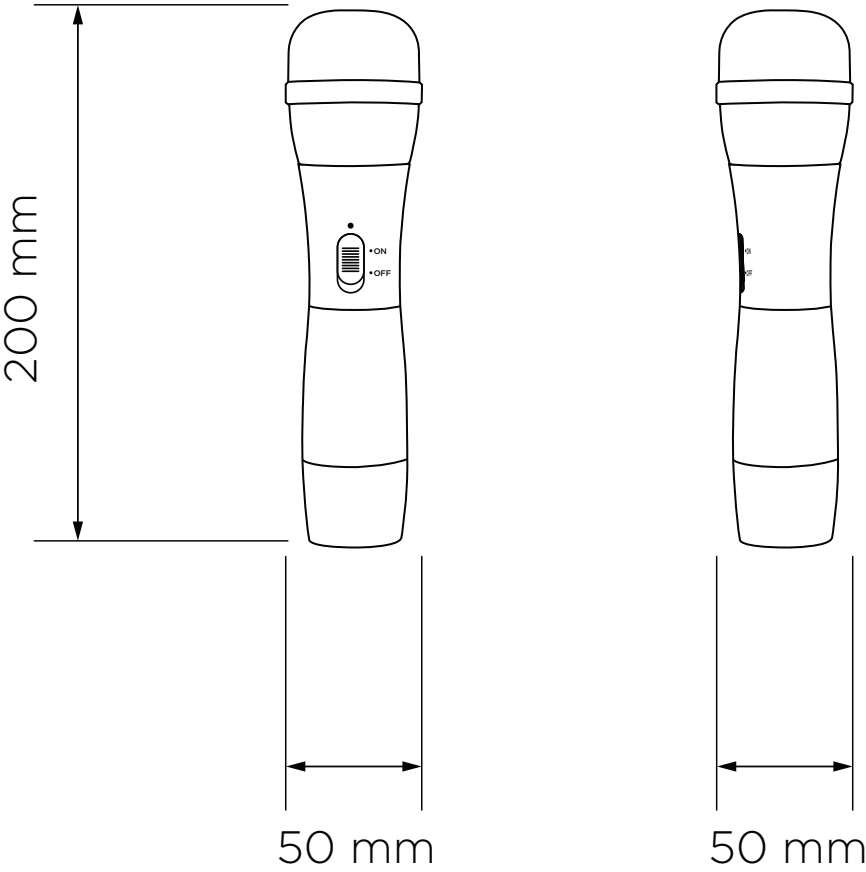
Cleaning

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.
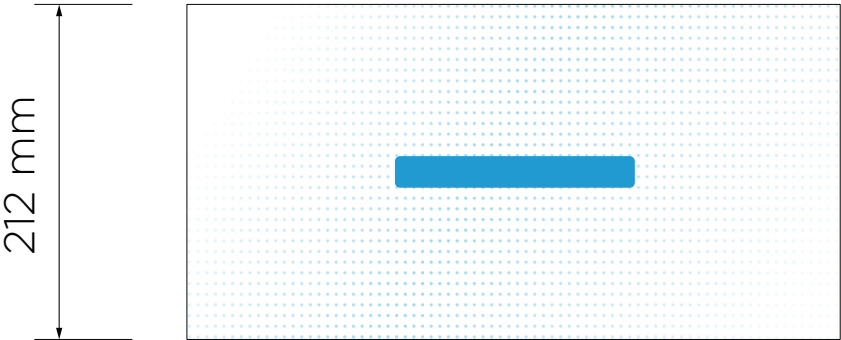
P200 PRO Size & Dimensions

148 mm

173 mm

296 mm

ARTSOUND

148 mm

148 mm

M20 Size & Dimensions

200 mm

50 mm   50 mm

Packaging Size & Dimensions

212 mm

310 mm

P200 PRO
Broadcasting System

KEY PRODUCT FEATURES

- Suitable for Audiences up to (100) people
- 2 Channel, True-Diversity Antenna Technology
- 50W Class-D Professional Audio Amplifier
- Two (2) M20 Ergonomic Aluminum UHF Microphones
- Integrated Audio/Visual, Media Player
- Record Live Sessions Directly to MP3
- Exchangable Battery with Extended Playtime (16hrs)
- Programmable Siren/Alarm/Alert Sound Effects Button
- Adjustable Voice Reverberation Enhancer
- 1/4" Analog Microphone Input
- 3.5mm Auxiliary Input & Output
- Bluetooth 5.3 Streaming Audio
- USB 2.0 Removable Media Port
- MicroSD Removable Media Port
- 5/8" Integrated Tripod Stand Adapter
  *Tripod Sold Separately

410 mm

212 mm

ARTSOUND
P200 PRO

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

www.artsound.com.cn/support