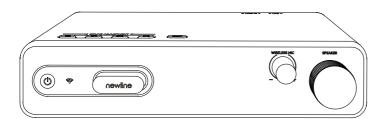
# newline





# **Newline Voice Amplify**

— User Manual —

The power cord shall be connected to a socket-outlet with earthing connection.

This product is intended to be supplied by a UL Listed Certificate power adapter and power cord, output comply with LPS or PS2, rated 19Vdc, 3.42A min., and Tma 35 degree C min. Please contact manufacturer. UL File owner or Newline for further information and assistance.

#### Federal Communication Commission Interference Statement

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

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

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

### For Wireless Device - Pendant Microphone:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. End users must follow the specific operating instructions for satisfying the RF exposure compliance.

For Wireless Device - Microphone Receiver:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

#### Disclaimer

No warranty or representation, either expressed or implied, is made with respect to the contents of this documentation, its quality, performance, merchantability, or fitness for a particular purpose. Information presented in this documentation has been carefully checked for reliability; however, no responsibility is assumed for inaccuracies. The information contained in this documentation is subject to change without notice.

In no event will Newline Interactive Inc. be liable for direct, indirect, special, incidental, or consequential damages arising out of the use or inability to use this product or documentation, even if advised of the possibility of such damages.

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## **Overview**

## **Package Contents**

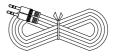
### **Audio Box**



Newline Voice Amplify Audio Box



Power Adapter & Power Cord(s)



3.5 Stereo to 3.5 Stereo Cable (10 m)



QR Code Card

## **Pendant Microphone**



Newline Voice Amplify Pendant Microphone



Lanyard



USB 3.0 Type-C to Type-A Cable (1.5m)



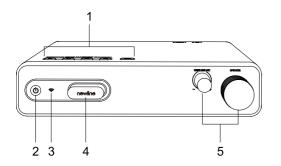
Microphone Receiver Dongle



Wall Mount Type Adapter

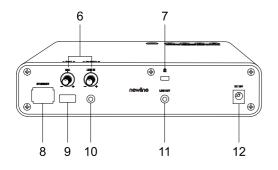
## **Parts Info**

### **Audio Box**



### **Front View**

- 1. Sound Adjustment Buttons
- 2. Power Button
- 3. Microphone Status LED
- 4. Microphone Receiver Dongle Slot and Plug
- Volume Controls:
   Wireless Mic / Speakers (Line Out)

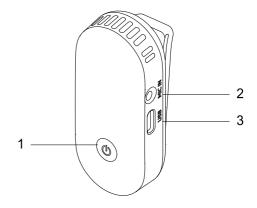


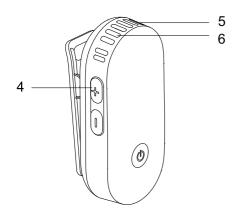
### **Back View**

- 6. Volume Controls: USB Audio Class (UAC) / Line In
- 7. Kensington Lock
- 8. Ethernet Port
- 9. USB Type-A Port
- 10. Line In Port
- 11. Line Out Port
- 12. DC Power Jack

## **Pendant Microphone**

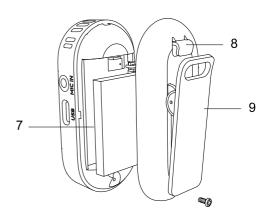
- 1. Power/Mute Switch
- 2. Mic In Port
- 3. USB Type-C Port





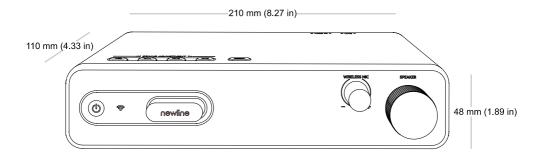
- 4. Volume Up/Down
- 5. Battery LED
- 6. Status LED

- 7. Battery
- 8. Lanyard Hook
- 9. Microphone Clip

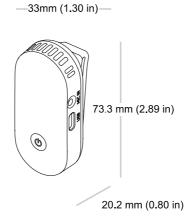


## **Dimensions**

### **Audio Box**



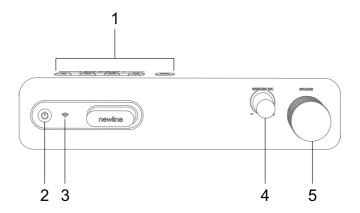
## **Pendant Microphone**



# **Controls and Connections**

## **Audio Box**

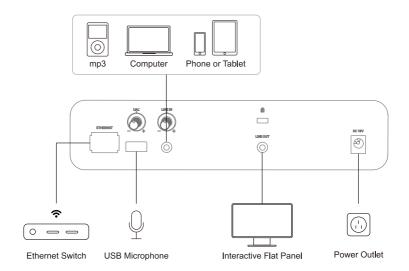
## **Font Panel**



Name	Description	
Sound adjustment and	Press	То
reset buttons	<b>CD</b>	Mute or unmute the line out port.
	<	Decrease the line out port volume. (same as using the speaker volume knob)
	< ↑	Increase the line out port volume. (same as using the speaker volume knob)
	<\\d^{\dagger}	Lock or unlock the line out port volume.
	RESET	Press and hold for 10 seconds to reset the web interface login.

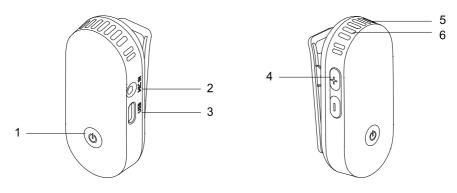
2. U Power	Press to power on. Press and hold for 5 seconds to enter Standby Mode.		
	LED	Status	
	Solid green •	Power on	
	Flashing green <b>≭</b>	Start-up	
	Solid red ●	Standby Mode (Wake-on-LAN)	
	Flashing red <b>≭</b>	Firmware update or factory reset	
	Solid orange •	UAC and Line in input locked	
Wireless microphone status LED	LED	Status	
Status LED	Solid blue •	Microphone is paired	
	Off O	Microphone isn't paired	
Wireless microphone volume knob	Adjust the wireless microphone volume.		
5. Speaker volume knob	Adjust the line out port volume.		

## **Back Panel**



Name	Description
Ethernet port	Connect to an Ethernet port to access the device web interface.
UAC port	Connect to a USB microphone using a USB Type-A cable.
Line in port	Connect to an audio source, such as an mp3, computer, phone or tablet using a 3.5 mm stereo cable.
Line out port	Connect to the audio in port on an interactive flat panel with built-in speakers using a 3.5 mm stereo cable.
DC 19V	Connect the included power adapter and power cord to a power outlet with earthing connection.

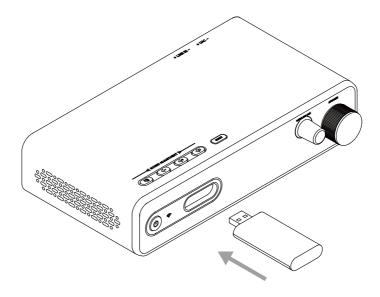
## **Pendant Microphone**



Name	Description			
1. U Power / Mute		Press and hold for 3 seconds to turn the microphone on or off.  Press to mute or unmute when the microphone is turned on.		
2. Mic in port		by plugging it into the mic in port on the naired with the audio box.		
3. USB Type-C port	Connect the microphone Type-C cable to charge.	to a power source using the included USB		
4. Volume Up/Down	Adjust the wireless microphone volume.			
5. Battery LED	LED	Status		
	Solid green •	Fully charged		
	Flashing red <b>≭</b>	Low battery		
6. Status LED	LED	Status		
	Solid blue •	Paired		
	Flashing blue *	Not transmitting to a receiver or out of range		
	Solid red ●	Mute		
	Flashing red <b>≭</b>	Low battery		

## **Get Started**

## **Insert the Microphone Receiver Dongle**



- 1. Remove the plug and insert the included microphone receiver dongle.
- 2. Press the power button to turn on the audio box.

**Note:** Hot-plugging may damage your device. Please plug in the receiver before powering on and unplug it after powering off.

## **Set up Your Microphone**

## **Pair Your Pendant Microphone**

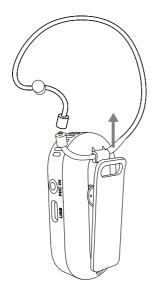


- Make sure you have inserted the microphone receiver dongle and turned on the audio box.
- Press and hold the Power/Mute button on the microphone for 3 seconds until you see a solid green light, then release the button to continue the pairing process.
- Pairing is successful when the status LEDs on both the microphone and the audio box turn solid blue.

Solid blue: Paired

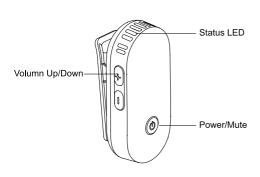
\* Flashing blue: Not transmitting to a receiver or out of range

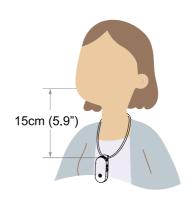
## **Use Your Microphone**



Please follow the instructions below for optimal audio quality.

- Tuck the lanyard through the hook and pull hard to secure the lanyard. Then wear it around your neck.
- 2. Adjust the lanyard to position the microphone approximately 15cm (5.9") from mouth.
- Press and hold the Power/Mute button for 3 seconds to power on > press again to mute > press and hold for 3 seconds to power off.
- Adjust the volume with the Volume Up/Down buttons on the side of the microphone.
- 5. The microphone will automatically turn off:
  - When it is out of range and after 3 minutes of trying to connect.
  - After being muted for 30 minutes.

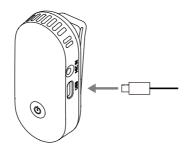




- Solid blue: Paired
- \* Flashing blue: Not transmitting to a receiver or out of range
- Solid red: Mute
- ★ Flashing red: Low battery

### **Charge Your Microphone**

- It will take less than 3 hours to fully charge your microphone.
- Your microphone can get up to 8-10 hours of talk time on a single charge.
- 10 minutes of charge will provide 1 hour of talk time.



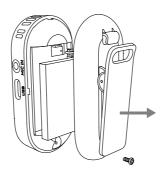
To charge, plug your microphone into a power source using the included USB Type-C cable.

### The LED status indicates the following:

Solid green: Fully charged

Solid red: Charging

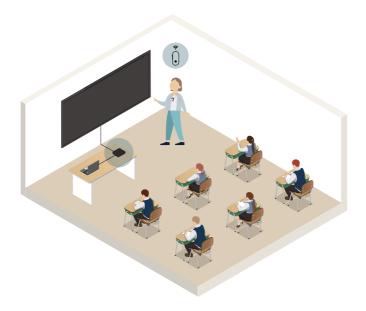
## **Replace Your Microphone Battery**



- 1. Turn off the microphone. Loosen the screw and open the battery door
- 2. Remove the battery by gently pulling up from the notch on the bottom.
- 3. Insert the replacement battery, close the battery door, and tighten the screw.

**Note:** The battery should be replaced by its manufacturer, service technician or a similarly qualified person.

## **Audio Integration with Interactive Flat Panel**



Turn on the audio box, then <u>pair your pendant microphone</u>.
 You can also use a wired microphone by plugging it into the mic in port on the pendant microphone that has been paired with the audio box.



- 2. Connect the line out port on the audio box to the mic in port on the interactive flap panel with builtin speakers using a 3.5 mm stereo cable.
- 3. Connect your computer to the interactive flat panel using an HDMI cable.

## **Web Interface Settings**

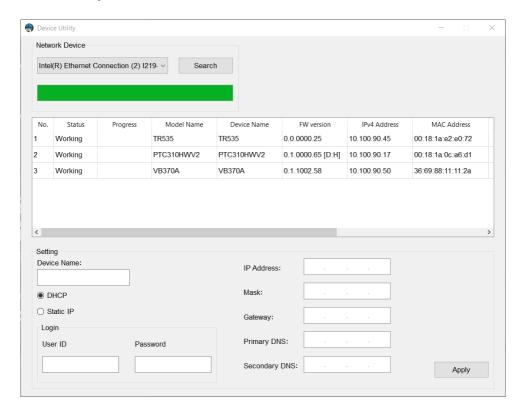
## **Access the Web Interface**

To access the web interface of your device, you can use the Device Utility software to find its IP address.

### Note:

- The device's default network is DHCP.
- The default username and password is admin/admin.

## **Device Utility**



### To access the web interface:

- Download and install Device Utility to your computer from Newline (<a href="https://newline-interactive.com/usa/newline-voice-amplify/">https://newline-interactive.com/usa/newline-voice-amplify/</a>) and launch the software.
- 2. Click **Search** to see available devices on the same local area network (LAN).

#### Note:

- Make sure your device is connected to the internet.
- Device Utility and your device must be on the same LAN.
- Double-click on your device's IP address in the IPv4 Address column to open the web interface in your browser.

### To change your network to DHCP or static IP:

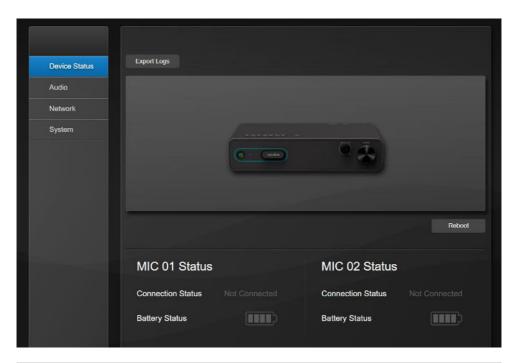
- 1. Select the checkbox of your device.
- 2. Enter the default or changed username and password in the Login field.
- 3. Select **DHCP** or **Static IP**, then enter your network settings if applicable in the **Settings** section.
- 4. Click Apply.

## Log In for the First Time

When you log in for the first time, you'll be prompted to change the username and password. The username and password cannot be the same.

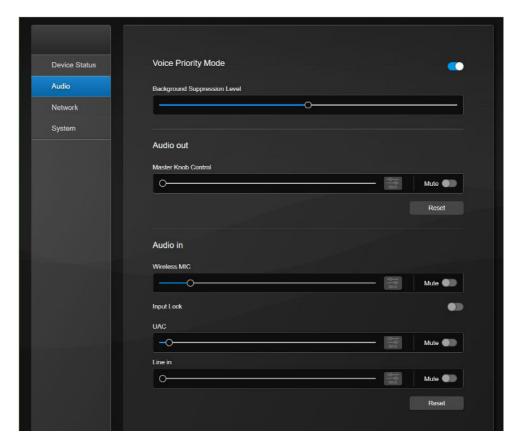
- Username: Use 1-32 characters.
- Password: Use 8-32 characters and a combination of uppercase letters, lowercase letters, numbers, and symbols (%+=,-\_^/@.~).

## **Device Status**



Item	Description		
Export Logs	Click to download the logs f	or current settings to your local files	i.
Reboot	<ol> <li>Click to restart your audio box, and click <b>OK</b> on the pop-up window to continue. It may take a few minutes to reboot.</li> <li>Refresh your web browser and log in again when the reboot is finished.</li> </ol>		
Microphone Status	<ul> <li>View microphone connection status and battery status.</li> <li>Connection Status: Connected, Not Connected</li> <li>Battery Status</li> </ul>		
	Icon Status		
		Full battery	
	Remaining battery		
		Low battery	
		Out of battery	

## **Audio**



### **Voice Priority Mode**

Turn on to reduce the volume of all audio sources except the wireless microphone when someone is speaking into the wireless microphone.

Drag the slider to adjust the background noise suppression level.

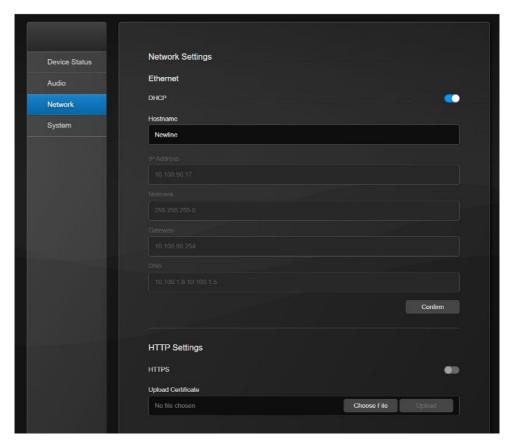
### **Audio Out**

Item	Description	
Master Knob Control (Line out)	<ul> <li>Drag the slider to adjust the volume.</li> <li>Click Max Volume Setting to set up the maximum volume.         When finished, click OK. You can only adjust the volume in a certain range.</li> <li>Click the Mute toggle switch to mute or unmute each setting.</li> </ul>	
Reset	Click to reset to factory default value.	

### Audio In

Item	Description
Wireless MIC	Drag the slider to adjust the volume.
	<ul> <li>Click Max Volume Setting  to set up the maximum volume.</li> </ul>
	When finished, click <b>OK</b> . You can only adjust the volume in a certain
	range.
	Click the <b>Mute</b> toggle switch to mute or unmute.
Input Lock	Lock or unlock UAC and Line in input settings.
UAC	Drag the slider to adjust the volume.
UAG	Click Max Volume Setting  to set up the maximum volume.
	When finished, click <b>OK</b> . You can only adjust the volume in a certain
Line in	range.
	Click the <b>Mute</b> toggle switch to mute or unmute each setting.
Reset	Click to reset settings to factory default values.

## **Network**



### **Network Setting**

Item	Description	
DHCP	<ul> <li>Click the toggle switch to switch between DHCP and Static IP.</li> <li>DHCP: The system will assign a related IP address to the device.</li> <li>Static IP: You may manually enter IP Address, Netmask, Gateway and DNS.</li> </ul>	
Hostname	Change the hostname, then click <b>Confirm</b> .	
IP Address	Turn off the <b>DHCP</b> toggle switch to Switch to Static IP.	
Netmask	<ol><li>You may manually enter IP Address, Netmask, Gateway and DNS in the text boxes.</li></ol>	
Gateway	3. When finished, click <b>Confirm</b> .	

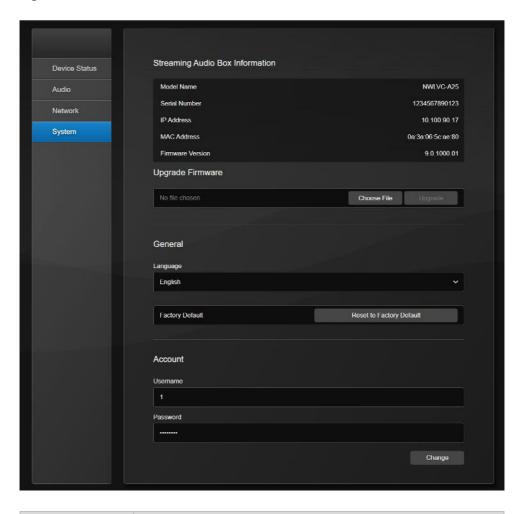
DNS					
-----	--	--	--	--	--

### **HTTPS Settings**

Click the **HTTPS** toggle switch to turn on or off the function. When **HTTPS** function is on, it will establish a secure connection between your browser and your audio box.

- 1. Create a SSL certificate file for encryption and decryption.
- 2. In Upload Certificate setup field, click Choose File to select the certificate file on your computer.
- 3. When finished, click Upload.

## **System**



Item	Description	
Streaming Audio Box Information	Displays the device information such as IP Address.	
Upgrade Firmware	<ol> <li>Via the web interface</li> <li>Download the latest firmware from Newline (<a href="https://newline-interactive.com/usa/newline-voice-amplify/">https://newline-interactive.com/usa/newline-voice-amplify/</a>) to your computer.</li> <li>Click Choose File to select the firmware file.</li> <li>Click Upgrade.</li> </ol>	

	Via the USB flash drive     Download the latest firmware from Newline (https://newline-interactive.com/usa/newline-voice-amplify/) to a USB flash drive (FAT32 / 4GB or more).  Create a new folder named "Update" (capital "U"). Then drag and drop	
	<ol> <li>the firmware file into the folder.</li> <li>Turn on the audio box. A solid green light on the Power button will indicate that it is powered on.</li> <li>Insert the USB flash drive into the USB-A port to update automatically. A flashing red light on the Power button will indicate that it is updating.</li> <li>The audio box will reboot when the update is complete.</li> </ol>	
Language	Select from the drop-down list to change the system language.	
Help us improve	Opt-in or opt-out of providing anonymous usage data.	
Factory Default	Reset the device to factory default settings (e.g., volume, web login).	
Username	Change the username and password, then click <b>Change</b> .	
Password		

# **Specifications**

## **Audio Box**

DC Power	19V, 3.42A adapter		
Standby Mode	<1.5W Wake-on-Lan (WoL)		
Power Consumption	13 W max.		
Dimensions (W x D x H)	210 mm (8.27 in) x 110 mm (4.33 in) x 48.5 mm (1.91 in) (excluding rubber)		
Net Weight	530g (1.17lbs) ±50g		
	LED		Status
	Solid green •		Power on
	Flashing green <b>≭</b>		Start-up
Power Button	Solid red •		Standby Mode (Wake-on-LAN)
	Flashing red <b>≭</b>		Firmware update or factory reset
	Solid orange •		UAC and Line in input locked
Status LED	Solid blue: Microphone is paired     Off: Microphone isn't paired		
	Press	То	
	250	Mute or unmute the line out port.	
	ζ -	Decrease the line out port volume. (same as using the speaker volume knob)	
Sound Adjustment Buttons	<b>\(\frac{1}{4}\)</b>	Increase the line out port volume. (same as using the speaker volume knob)	
	< ô	Lock or unlock the line out port volume.	
	RESET	Press and hold for 10 seconds to reset the web interface login.	
UAC Port	USB 2.0 Type-A	A host mod	le
Line In Port	3.5mm stereo		

Line Out Port	3.5mm stereo
Ethernet Port	1
Kensington Lock	1

## **Pendant Microphone**

Style	Pendant with clip and lan	yard	
Channels	1		
Transmission Type	Wireless		
Wireless Frequency	2.4 GHz		
Frequency Response	50 Hz - 20 kHz		
Coverage	20m (65 ft.)		
Microphone Capsule	Omni-directional electret	condenser	
Battery	Rechargeable and remov	able Li-ion battery	
Battery Power	3.7V		
Talk Time	8-10 hours		
Charging Time	<3 hours		
Charging Method	USB Type-C		
Dimensions (W x D x H)	(excluding clip)	(n) x 20.2 mm (0.8 in) x 73.3mm (2.89 in) (x 30 mm (1.18 in) x 10 mm (0.39 in)	
Net Weight	35g		
Power/Mute Switch	Press and hold the Power/Mute button for 3 seconds to power on > press again to mute > press and hold for 3 seconds to power off.		
Volume	Up/Down buttons		
Status LED	LED	Status	
Cidius LLD	Solid blue •	Microphone is paired	

	Off O	Microphone isn't paired	
Battery LED	When in use:  LED Status  Solid green ● Normal  Flashing red * Low battery  When charging:		
	LED  Solid green •	Status Fully charged	
	Solid red ●	Charging	
Mic In Port	3.5mm mono		
USB Type-C Port	1		
DC Power	5V, 0.4A		

## **Wireless Receiver Dongle**

Transmission Type	Wireless
Wireless Frequency	2.4 GHz
DC Power	5V, 0.5A

## **Environmental Specifications**

Operational	Temperature: 0°C - 35°C Humidity: 10% - 90%
Storage	Temperature: -30°C - 60°C Humidity: 10% - 90%

Specifications are subject to change without prior notice.

## **Troubleshoot**

#### Microphone doesn't pair.

- Make sure the audio box is turned on. A solid green or orange light on the Power button will indicate that it is powered on.
- Make sure the audio box is not placed in an enclosed space where the Wi-Fi signal may be
  obstructed.
- Press and hold the Power/Mute button on the microphone for 3 seconds to power off, and try
  pairing again.

### No or low volume from the microphone.

- Make sure the microphone is not muted. A solid red light on top of the microphone indicates that it's muted.
- Adjust the volume with the Volume Up/Down buttons on the side of the microphone.
- Position the microphone approximately 15cm (5.9") from mouth for optimal audio quality.

### I hear feedback (squealing).

- The volume may be too high. Adjust the Volume Up/Down buttons on the side of the microphone.
- The microphone may be too close to the speaker. Move the microphone away from the speaker.

### No sound from the speaker.

- Make sure the audio box is turned on. A solid green or orange light on the Power button will indicate that it is powered on.
- Check if the audio box is muted. If yes, press the Mute Speaker button on the top of the audio box to unmute.
- Make sure the line out port volume is unlocked. If turning the speaker knob doesn't adjust the volume, try pressing the lock/unlock button to unlock and increase speaker volume again.