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NUX

2.4G

B-11 PRO

WIRELESS SYSTEM FOR VIOLIN/VIOLA

- Wireless Frequency-hopping
- Condenser Instrument Mic
- Digital tuner for violin/viola
- Multiple EQ for violin/viola
- Send/Return circuit
- Reverb effects
- Booster

OWNER'S MANUAL

nuxaudio.com

WARNING

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

FCC Warning

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

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

RX FCC RF exposure statement

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.

TX FCC RF exposure statement

The 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 and your body.

Introduction

Thank you for choosing the NUX B-11 PRO wireless system for for violin/viola.

The system operates in the 2.4 GHz global ISM frequency band, featuring automatic pairing and channel detection. With a true diversity antenna design and real-time intelligent frequency hopping technology, it continuously monitors the surrounding RF environment and automatically switches to the optimal transmission channel to ensure a stable signal. Transmission latency is as low as 3.6 ms under optimal performance, with an effective range of up to 50 meters（165 ft）.

In addition, it features multiple reverb levels, a boost effects, a variety of EQ curves for violin and viola, FX loop control, and a specially designed digital tuner.

The compact transmitter can be easily mounted to the instrument with the help of the clip-on base. During breaks, it can be quickly detached and placed on the receiver for charging. The included condenser instrument microphone features a newly designed shock-absorption system, significantly improving stability and comfort during performance-helping you deliver your best on stage.

Features

● Operating Frequency Band	2.4 GHz ISM (2.4 GHz-2.4835 GHz)
● Operation Range	Up to 50 m (165 ft)
● Latency	>3.6 ms
● Audio Quality	24 bit / 48 kHz
● Frequency Response	20 Hz - 20 kHz
● OUTPUT Dynamic Range	112dBA (SEND/OUTPUT)
● Transmitter Battery Life Time	Up to 6.5 hours
● Receiver Battery Life Time	Up to 11 hours

- Wireless Frequency-hopping
- Reverb effects
- Boost effects
- Send/Return circuit
- Multiple EQ for violin/viola
- Digital tuner for violin/viola
- Condenser Instrument Microphone

Control Panel & IOs

Transmitter

Hot Shoe Mount	Used for attaching the included condenser instrument microphone.
Status Indicator	Displays the transmitter's operating and battery status.
Power Button	-Long press to power the transmitter ON/OFF. -When powered on and paired with the receiver, press and hold for 1.5 seconds to activate Mute Mode, and hold it again to resume normal operation. -Single press to switch between EQ curves (see “EQ Curve Introduction” below). **Tip:** Press and hold for 15 seconds and release to perform a forced device reset.
Reverb Indicator	Shows the current reverb on/off status and type（Blue: Room Reverb / Green: Hall Reverb / Red: Plate Reverb.）
Reverb Button	Press to toggle reverb ON/OFF.
Magnetic Charging Port	Used for charging the transmitter when placed on the receiver, and for mounting the transmitter onto the dedicated transmitter holder. Violin Stand Viola Stand

Left-Side LED Indicators - Pairing & Function Status

Paired successfully	Muted	Pairing in progress	Not paired
Green	Red	Flashing Green	Flashing Red

Left-Side LED Indicators - Battery Level Status

Battery>75%	75%≥Battery>50%	50%≥Battery>15%	15%≥Battery
Green	Orange	Red	Flashing Red

Transmitter Installation

1 Attach the transmitter mount to the edge of the instrument body using the threaded knob.

Tip: The accessories include mounts for both violin and viola—please choose the correct one.

Violin Stand Viola Stand

3 Bring the magnet on the back of the transmitter into contact with the magnet on the transmitter mount to complete the installation quickly.

2 Insert the condenser instrument microphone's hot-shoe connector into the transmitter's hot-shoe mount (note the keyed slot to ensure correct orientation), then secure it with the threaded knob.

4 Adjust the microphone's gooseneck. It is recommended to aim the microphone capsule toward the area just behind and above the bridge of the violin/viola.

Tip: Changing the microphone position will affect the tone. Fine-tune it according to your preference.

Receiver

Footswitch Encoder	Used for menu selection and parameter adjustment. Assignable via the footswitch to control the tuner, enhancer effect, mute, and other functions. And ON/OFF the functions by press/hold the footswitch.
Power Button	-Long press to turn the device ON/OFF. -When powered on, pressing the button in any state switches to the HOME / SETTING screen. ⚠ **Tip:** Press and hold for 15 seconds and release to perform a forced device reset.
EQ Button	Press to switch between EQ curves (see “EQ Curve Introduction” below).
Back Button	Press to return to the previous menu page.
LCD Screen	High-definition color LCD display.
Charging Contacts	For magnetic charging of the transmitter.

OUTPUT / SEND Port	Uses a 1/4”cable to connect to an amplifier for output. Can also be used to send the signal to an effects loop.
RETURN Port	Uses a 1/4”cable to receive the signal from an effects loop.
RETURN OUTPUT Port	Uses a 1/4”cable to connect to an amplifier. If an effects loop is connected, this interface should be used to connect the amplifier.

Receiver Interface

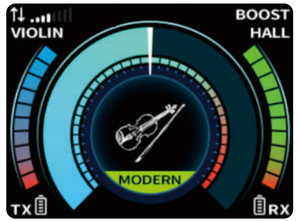
DI OUT PORT	Connect with an XLR cable for transmitting balanced signals to devices such as mixing consoles.
GROUND SWITCH	Use this switch to select whether the DI output is floating or grounded. TIP: If noise (such as humming) occurs when using the XLR output, try toggling this switch to avoid ground loop interference.
USB-C Port	Connect with a USB cable to your computer for firmware updates and to use the NUX GIF Customizer to customize the boot-up display. When connected to your phone or computer, it can also transmit audio streams.
DC 9V Port	Used to power the device (9V 1A).

Operating instructions

Automatic Pairing

Each B-11 PRO is set with a pairing ID from the factory. Once the receiver and transmitter are turned on, they will quickly pair within seconds and automatically establish a stable connection on the best transmission channel.

1. Turn on the power button for the transmitter and receiver. They will automatically recognize each other and complete the pairing process within a few seconds.
2. The receiver screen will display information such as signal input level, the stability of the wireless connection, and the battery status of both the transmitter and receiver.



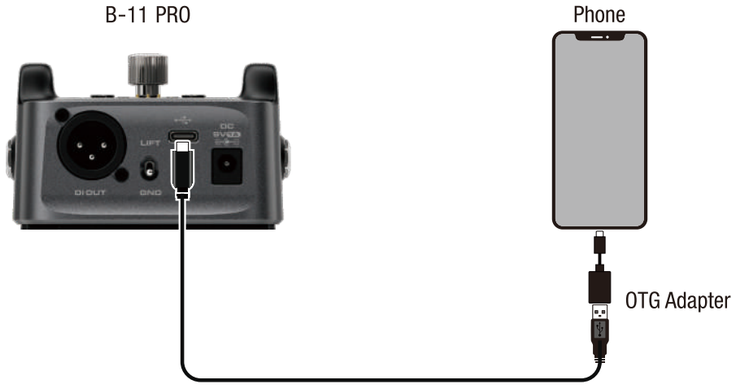
Manual Re-Pairing of ID

Each B-11 PRO set is pre-assigned with a pairing ID at the factory. If you need to re-pair the ID or pair the receiver with a transmitter from another B-11 PRO set, follow the steps below:

1. Turn on the receiver. The screen will display “SCANNING”. Press and hold the “Back Button” to enter pairing mode. The screen will then show “PAIRING...”.
2. Turn on the transmitter. When the “Status Indicator” flashes red, press the “Power Button” once. The transmitter and receiver will start pairing.
3. Once pairing is successful, the screen will display “PAIRED”.

Internal Recording

You can connect B-11 PRO to a mobile device via the USB-C port for digital audio recording.



Tip: Some mobile devices may require an OTG adapter to perform so.

Charging the transmitter

Turn on the receiver and place the transmitter on the receiver's magnetic charging position. The transmitter's status indicator will light red while charging.

Charging the receiver

The B-11 PRO comes with a DC 9V 1.2A power adapter. Plug it into the receiver's DC port to charge the device.

Caution!
Please only use the original DC9V 1.2A adapter to charge the B-11 PRO receiver. If you use an uncertified adapter to charge the TX, it might cause damages to the circuit of the product.

Caution!
The USB-C Port is not for charging !

Equalization curve introduction

Normal	Optimized for live sound pickup, delivering a neutral and natural tone. Ideal for violin and viola.
Violin – Classical	Designed to reproduce the natural concert hall sound of a violin. Slightly enhances body resonance for added warmth, while gently smoothing the extreme high frequencies. Delivers a well-balanced classical tone, suitable for Baroque, Classical, and Romantic solo or chamber music performances.
Violin – Modern	Tailored for modern recording and contemporary music production. Enhances tonal definition for greater clarity and presence, highlighting bow-string texture and expressive detail. Ideal for pop, rock, and cinematic string arrangements.
Violin – Lyrical	Created to produce a soft, rich, and emotionally expressive tone. Adds warmth and body resonance, enriching the key frequency range of the violin for a smoother and more rounded sound. Suitable for elegant, lyrical, and slow melodic passages.
Violin – Airy	Designed for performances requiring exceptional clarity and brilliance. Increases tonal brightness and emphasizes bowing detail, harmonics, and airiness. Maintains tight low-end response to ensure a bright yet clean sound. Perfect for solos, cadenzas, or situations where a standout tone is desired.
Viola – Classical	Faithfully reproduces the traditional classical viola tone. Enhances body resonance to emphasize the viola's signature warmth and slightly nasal chamber character. Provides a balanced and woody timbre that blends well in ensembles while maintaining melodic clarity.
Viola – Modern	Developed for recording and contemporary styles such as pop and rock. Tightens the low end to prevent muddiness or bass masking, while enhancing tonal definition and bow-string detail for a punchy, modern presence.
Viola – Mellow	Highlights the viola's deep, full-bodied, and magnetic tonal qualities. Focuses on enhancing warmth and emotional expressiveness, creating an enveloping and intimate listening experience. Well-suited for jazz, folk, and soulful passages.
Viola – Bright	Engineered to enhance high-frequency presence and articulation. Boosts brightness and bowing detail, improving clarity in fast passages and pizzicato while retaining solid low-mid foundation to prevent thinness. Ideal for modern arrangements or solo performances that require a brighter tone.
Flat	Unprocessed frequency response. Recommended for studio recording or when external EQ adjustment is preferred.
User's EQ1 / User's EQ2	User-defined EQ settings based on the Flat profile.

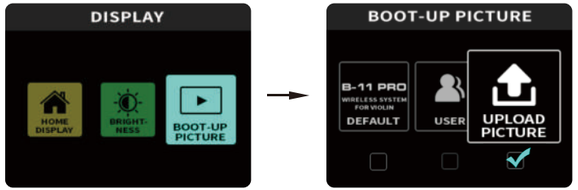
TIP:
Preselect your desired EQ curves in the FAVORITE EQ menu. During use, you can quickly switch between EQ curves by pressing the EQ button on the receiver or the Power button on the transmitter.

Setting the Boot-Up screen

1.Please visit www.nuxaudio.com on your computer and download the “GIF Customizer” app.

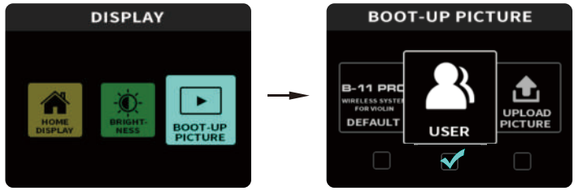
GIF Customizer

2.On the receiver screen, select “UPLOAD PICTURE” and confirm, then connect the B-11 PRO to your computer via the USB-C port.



3.Open the “GIF Customizer” app on your computer, then import and configure your custom startup animation and tuning screen.

4.In the “BOOT-UP PICTURE” and “TUNING DISPLAY” menu, select user defined as the display option to complete the setup.

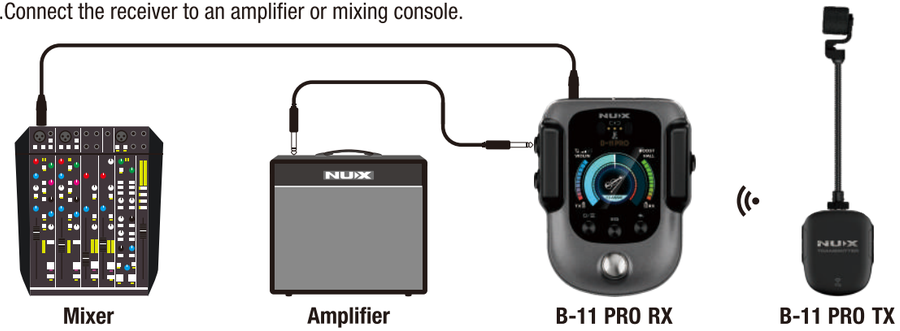


Boot Custom Animation

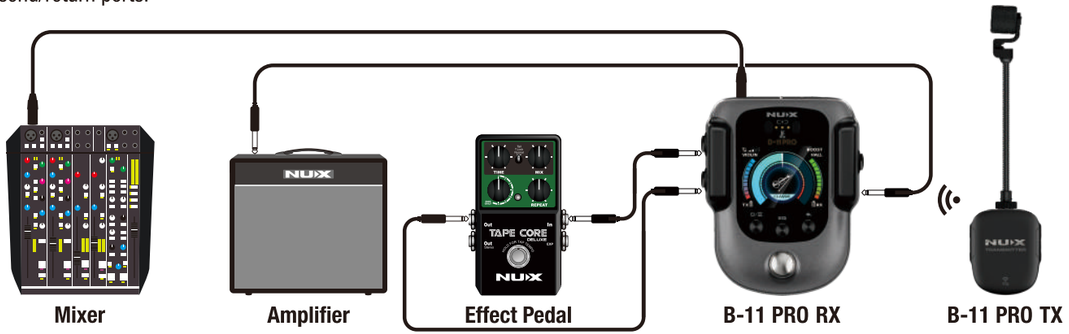
Tuning Interface Customization

Applications

1.Connect the receiver to an amplifier or mixing console.



2.Connect the receiver to an amplifier or mixing console. You can also integrate your effects loop into the receiver by using the send/return ports.



Tips and Methods to Improve Wireless System Performance

If you experience interference or disconnection while using B-11 PRO, please try to follow the tips below：

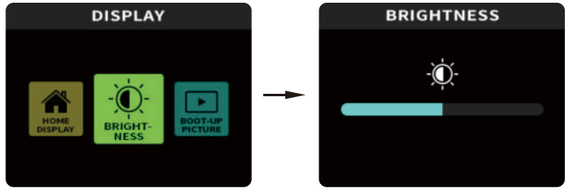
- For optimal transmission performance, check for nearby Wi-Fi devices and set the B-11 PRO to the best position between “Low Latency” and “Stable” modes.
- Ensure the receiver is fully charged and powered on.
- Make sure there are no large objects obstructing the signal transmission between the transmitter and receiver.
- Reduce the distance between the transmitter and receiver. For example, on stage, you can place the receiver close to the transmitter and use a long cable to connect to the mixing console or speaker.
- When using two or more sets of wireless systems, ensure that there is at least 1 meter of separation between transmitter and receiver. Keep the receiver away from Wi-Fi routers, computers, Bluetooth devices, or other 2.4 GHz signal sources.
- Turn off unnecessary Wi-Fi on computers, phones, and other portable devices.
- Avoid high Wi-Fi traffic activities, such as downloading large files or watching movies.
- Avoid placing the transmitter and receiver near metal surfaces or other high-density materials.
- During sound checks, mark “blind spots” where the signal is weak, and try to avoid these areas during performances.
- The optimal operating distance is 10m (33 feet) to 35m (115 feet).

System Setting

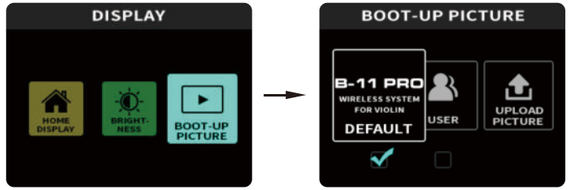
Display Setting

1.Choose your favorite HOME display.

2.Adjust display brightness.

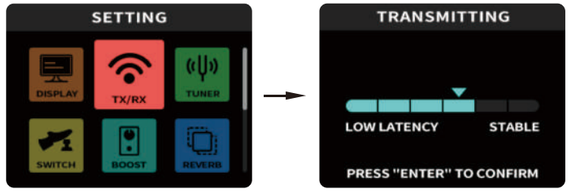


3.Select your preferred boot-up picture.



Wireless Settings

You can adjust the transmission settings between “LOW LATENCY” and “STABLE.”



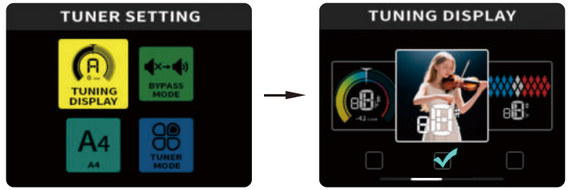
When set to the far-left “LOW LATENCY” position, the transmission latency will be minimized (3.6 ms).

When set to the far-right “STABLE” position, this mode provides greater transmission stability, though with slightly higher latency (9.9 ms).

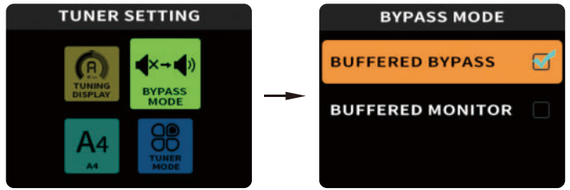
For optimal transmission performance, check for nearby Wi-Fi devices before use, then set the receiver wireless setting to the best position between “LOW LATENCY” and “STABLE” based on your needs.

Tuner Settings

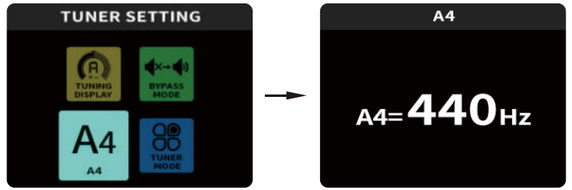
1.Select your preferred tuner display mode.



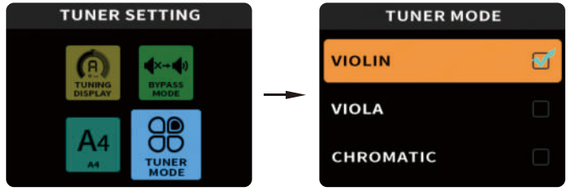
2.Choose the tuner bypass mode.



3.Adjust the tuner frequency for A4.

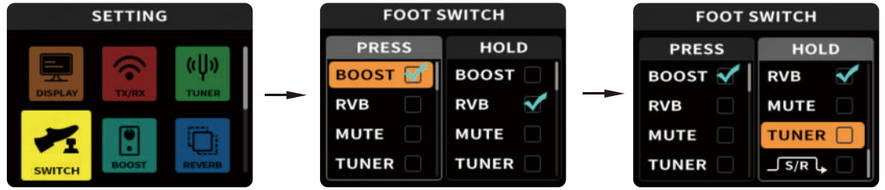


4.Adjust the tuner mode.



Footswitch Settings

You can set the specific functions for footswitch control.

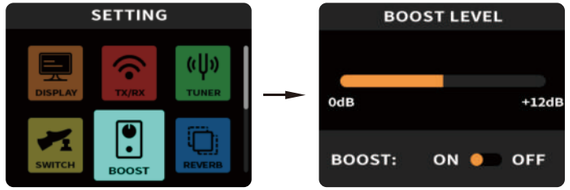


When you selected the "S/R", it can control whether the signal passes through Send/Return.

Single across the Send/Return　　Single bypass the Send/Return

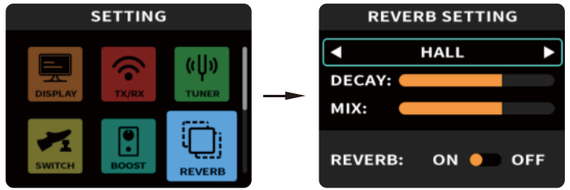
Boost Settings

You can adjust the value of the boost effect.



Reverb Settings

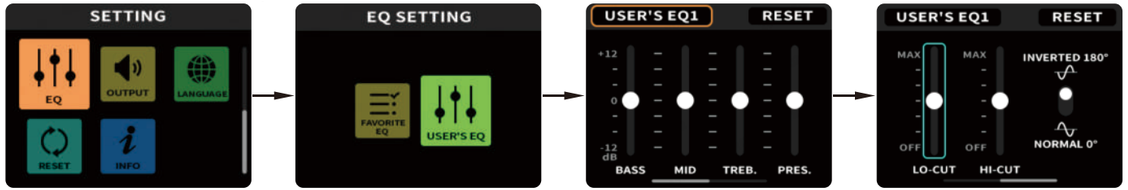
You can set the reverb effect type and parameters.



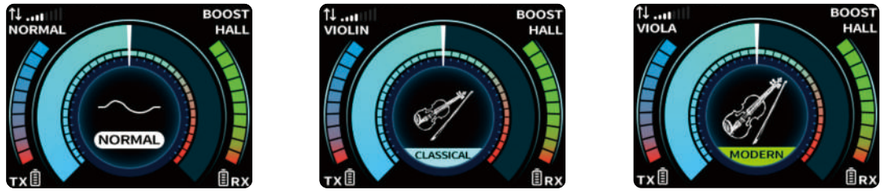
EQ Settings

FAVORITE EQ： Select the desired equalization curves.

USER'S EQ： Adjust custom equalizer.

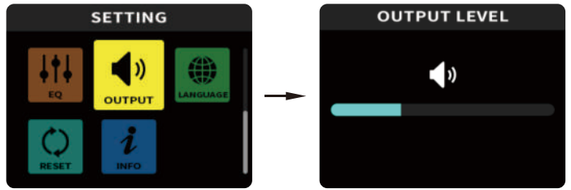


TIP： The main page displays the current equalization curves.



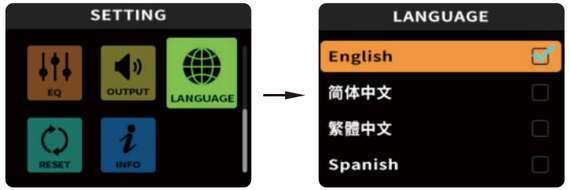
Output Settings

Adjust the output level.



Language Settings

Select your system language.



INFO

Displays the current system version.

Specifications

Microphone	
Microphone Type	Condenser
Polar Patterns	Cardioid
Microphone Sensitivity	-46dB
Transmitter / Receiver	
Operating Frequency Band	2.4 GHz ISM (2.4 GHz - 2.4835 GHz)
Transmission Power	<10 mW E.I.R.P
Operation Range	Up to 50 m (165 ft)
Latency	3.6ms (Low Latency) / 6.1ms (Default) / 9.9ms (Stable)
Audio Quality	24bit/48kHz
Frequency Response	20Hz-20kHz
Maximum Audio Signal Output	6.4 dBV (SEND/OUTPUT)
THD+Noise	Less than 0.01% @ 1 kHz
Output Dynamic Range	112dBA (SEND/OUTPUT)
Battery Life Time	Transmitter (up to 6.5 hours), Receiver (up to 11 hours)
Battery Capacity	Transmitter (3.7 V / 450 mAh), Receiver (3.7 V / 3000 mAh)
Power	DC 9 V, 1 A min., negative tip power supply (Receiver)
Transmitter Dimensions (excluding microphone)	44.6mm(L)x55.5mm(W)x18.1mm(H)
Transmitter Weight (excluding microphone)	Approx. 33g
Receiver Dimensions	90mm(L) x 115mm(W) x 55mm(H)
Receiver Weight	Approx. 468g

Accessories

- DC 9V 1.2A Power Adapter
- USB-C Cable
- USB-C to USB-A Adapter
- Transmitter Mount (Violin)
- Transmitter Mount (Viola)
- User Manual
- NUX Sticker

*Technical specifications are subject to change without prior notice.

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