



© 2022 Cherub Technology-All rights reserved. No part of this publication may be reproduced in any form without prior written permission of Cherub Technology.

[www.nuxefx.com](http://www.nuxefx.com) Made in China

# NUXX



## **B-7 PSM**

### **Wireless In-ear Monitoring System**

5.8GHz Wireless System

#### **Statement**

The earphone is shown for demonstration purpose only and is not included with the purchase of this product.

包装上的耳机仅用于产品功能展示，不包含在销售的产品中。



Easy to use and operate



30m transmission range



24bit / 40kHz high-quality audio transmitting



4-hour battery life

## WARNING

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

## CAUTION

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.

**NOTE:** 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.

To maintain compliance with FCC's RF Exposure guidelines, The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction. Use only the supplied antenna.



The lightning symbol within a triangle means, "Electrical caution!" It indicates the presence of information about operating voltage and potential risks of electrical shock.



The exclamation point within a triangle means, "Caution!" Please read the information next to all caution signs.

## System Overview

The NUX B-7PSM is a wireless personal in-ear monitor system with automatic RF environment scan, 5.8GHz interference-free broadcasting frequency, and 24-bit / 40kHz high-quality STEREO audio transmitting. It quickly finds a clean wireless channel and automatically assigns it. The B-7PSM offers a super low latency of less than 5.5ms and has an operation range of 90 feet when unobstructed between the Receiver (RX) and Transmitter (TX). (The operation range is around 10 meters when obstructed). It's a super light-weight wireless, mini-compact system designed to clip on & go. The TX features a 1/8" TRS plug (you can use the included adaptor to convert to 1/4"), broadcaster-grade audio via 5.8GHz digital transmission to the compact RX. The RX's clip design can easily fit to your shirt, belt, or guitar strap. And, with our newest automatic frequency hopping technology, B-7PSM is reliable and stable while you perform on stage.

**Note:** When coupling multiple B-7PSM systems, please turn on 1 set first, pair it, and then turn on the other sets sequentially.

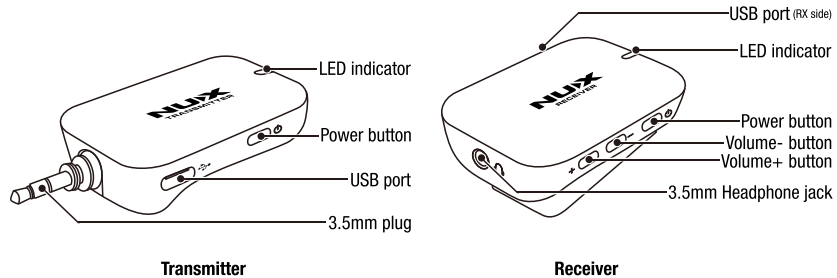
**Note:** For best results the TX should be at least 1 meter above the ground, 2 meters away from Wi-Fi routers and wall or metal surfaces to minimize reflections.

The user-friendly matching system makes it easy to use, just turn ON both wireless units (TX & RX), then it will be paired within a couple of seconds. Each wireless set has a unique pairing algorithm, it automatically detects each other and configures their own IDs. The signal never interferes with any other wireless including the Wi-Fi\* signal.

**\*Recommended:** Please stay 2 meters (6 feet) away from the Wi-Fi router for the best results.

# How to Operate

## Product interface



# How to Operate

## Power On/Off

Push and hold the power button for 2 seconds to turn ON the TX and RX.

## Battery status

Before it gets paired automatically, you can see TX's and RX's battery status; if the LED indicator:



■ Blinks GREEN

Fully Charged (100% > GREEN ≥ 75%)



■ Blinks YELLOW

Medium Charge (75% > YELLOW ≥ 50%)



■ Blinks RED

Low Charge (50% > RED ≥ 25%)

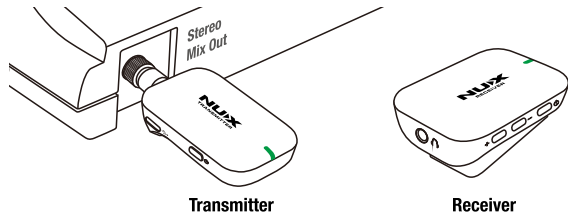
\*The B-7PSM can work up to 4 hours when fully charged.

## How to Operate

### Paired automatically

After 2 seconds, it will be paired automatically, and the TX's LED status will blink GREEN.

B-7PSM will detect the best channel in the 5.8GHz frequency band, if the transmitter and receiver get paired, TX's LED indicator will show GREEN. If the RX doesn't receive the signal, the RX's LED indicator will flash RED. Since the RX receives the signal, the LED indicator will show GREEN.

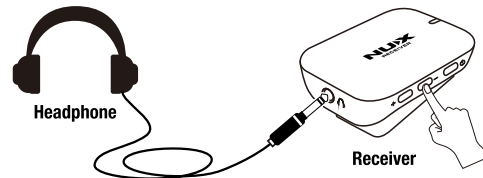


Plug in the TX to a live or personal mixer, and turn on the TX (LED indicator will show GREEN.) Then connect your in-ear buds with the RX, turn on the RX to pair with the TX. The LED indicator will be solid GREEN. Now it's ready to go.

**⚠ Note:** Be careful! Do not put the in-ear buds in your ears before you start to adjust the volume, it may hurt your ears if the volume is too loud.

## How to Operate

### Volume control



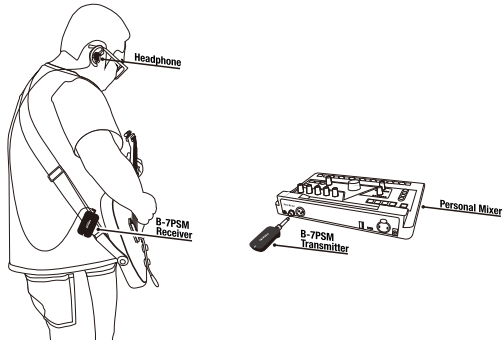
You can adjust the RX volume in 0.5db increments with the + and - buttons. The maximum volume is 0dB, and the minimum is -64dB. Holding down the + or - button can increase or decrease the volume quickly. The B-7PSM offers STEREO audio transmission, so it's perfect to work with professional personal mixers to pan the tracks as you want on stage or in the studio during rehearsals and live performances. The B-7PSM features premium sound quality with a 92dBA dynamic range and 20~19KHz frequency response.

**Note:** We recommend you use headphones or in-ear buds with a 16~32Ω impedance for the best experience. You can charge the RX and TX units with the rechargeable storage case, or by using the USB-C cable to charge. Both units can work while charging just in case.

## How to Operate

---

### Manually repair the RX and TX



The B-7PSM is already ID matched prior to shipping, but if you want to pair a different transmitter or receiver, please follow the steps to re-set the ID match.

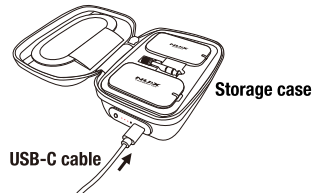
## How to Operate

---

- Turn off the TX & RX.
- Hold the power button of the TX and RX for more than 8 seconds, then it will enter to ID match status.
- When the TX's LED shows GREEN, it finishes ID match and enter to normal work status.

NUX offers various 5.8GHz wireless systems, you can use up to 10 systems simultaneously in one space. To prevent noise or interference issues, please avoid using other wireless systems together with NUX systems.

### Charge



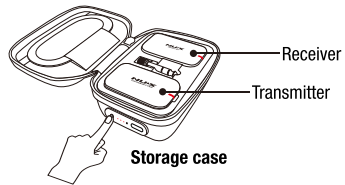
### Rechargeable storage case

Charging the storage case: Connect the USB-C cable to the storage case's USB port, use 5V/ more than 2A adaptor to charge. It will take around 4 hours to fully charge the storage case.

## How to Operate

### Using storage case to charge the TX & RX

While the TX & RX are in the storage case, press the storage case's power button, the storage case will start to charge both units. While charging, both units will show RED. The storage case LED indicator will turn off after 5 seconds.



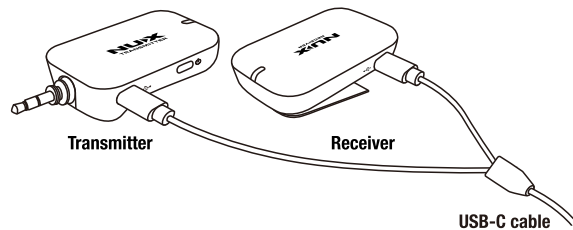
The storage case LED indicator

Mode	SOC	LED 1	LED 2	LED 3	LED 4
Charging	<25%	Flash	Off	Off	Off
	25%-50%	On	Flash	Off	Off
	50%-75%	On	On	Flash	Off
	75%-100%	On	On	On	Flash
	100%	On	On	On	On
Discharging (All off after 5s)	>75%	On	On	On	On
	50%-75%	On	On	On	Off
	25%-50%	On	On	Off	Off
	5%-25%	On	Off	Off	Off
	1%-5%	Flash	Off	Off	Off
<1%	Off	Off	Off	Off	

## How to Operate

### Using USB-C cable to charge the TX & RX

You can also charge the wireless units directly by using the USB-C cable (included).



# Specifications

---

- **Operating Frequency Band:** 5.8GHz
- **Operation Length:** <100 feet (30m) Outdoor unobstructed  
≤33 feet(10m) Outdoor with obstructions
- **Sampling Rate:** 24bit / 40kHz
- **Frequency Response:** 20~19kHz
- **Latency:** <5.5ms
- **Dynamic Range:** 92dB
- **THD:** <0.6%@1kHz
- **TX Impedance:** 3.5kΩ
- **Maximum Input Level:** 7.6Vpp (8.6dBV or 2.7Vrms)
- **RX Suggestion Phone Impedance:** 16~32Ω
- **Maximum Output Power:** 57mWrms (RLOAD =16Ω, 1kHz)
- **Output Volume Adjustment:** -64dB~0dB (0.5dB step)
- **Built-in Battery Capacity (TX & RX):** 450mAh / 3.7V
- **TX/RX Battery Running Time:** >4 hours
- **TX/RX Battery Charging Time:** around 1.5 hours
- **Storage Box Battery Capacity:** 3000mAh/3.7V
- **Storage Box Battery Charging Time:** around 4 hours

- **Dimensions**  
TX/RX: 60mm(L) x 36mm(W) x 25mm(H)
- **Weight**  
Power Case: 130g  
TX/RX: each 32g

\*Specifications and appearance subject to change without notice.

## Accessories

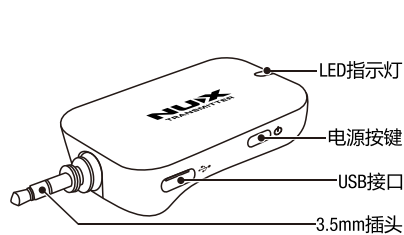
- Stereo audio adapter
- USB-C cable
- Manual
- Warranty card
- Rechargeable Storage Box

## 产品简介

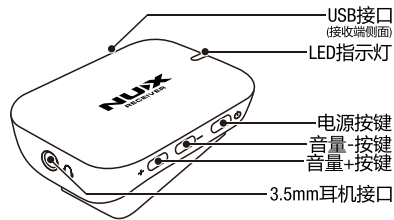
NUX B-7PSM是一款超级轻量化的5.8GHz入耳式无线监听系统，它运用了我司最新开发的跳频技术，稳定性和可靠性极佳。B-7PSM包含一个发射器和一个接收器，支持24-bit/40kHz高品质立体声音频传输，最高支持30米无线传输，传输延迟小于5.5毫秒。发射器标配3.5毫米立体声输入插头（可使用附赠的转接头转换为6.35毫米立体声插头）。接收器集成了背夹，演出时可方便地将接收器固定在上衣、腰带或是乐器背带上。

## 操作指南

### 产品界面



发射器



接收器



# 操作指南

## 开关机操作

长按发射器与接收器的电源按键2秒钟开关机。

## 查看电量信息

开机自动配对完成前，您可以通过观察机身上LED指示灯的状态结合下面的图示来获取发射器与接收器的剩余电量信息。



■ 绿色闪烁

电量充足(100% > 电量 ≥ 75%)



■ 黄色闪烁

中等电量(75% > 电量 ≥ 50%)



■ 红色闪烁

低电量(50% > 电量 ≥ 25%)

B-7PSM满电可持续工作4小时。如遇特殊情况，发射器与接收器均可在充电状态下使用。

# 操作指南

## 自动配对

开机约2秒后，发射器与接收器会自动完成配对。

- 开机后B-7PSM会自动扫频并选用最佳频道自动完成配对，配对完成后，发射器与接收器的LED指示灯均呈绿色常亮状态。
- 使用过程中如果发射器与接收器距离过大，导致连接信号断开，接收器上的LED指示灯会呈红色闪烁状态。



**注意：**为了获得最佳效果，请确保发射器与2.4GHz Wi-Fi、墙壁或是金属板保持至少2米距离且发射器需离地至少1米。

## 手动配对

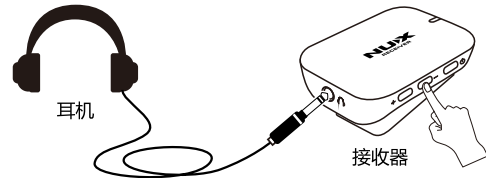
如果您需要将B-7PSM的接收器（发射器）与不同组B-7PSM的发射器（接收器）配对使用，需要执行如下操作：

1. 将发射器与接收器关机。
2. 同时按住发射器与接收器的电源按键8秒钟以上使发射器与接收器进入ID配对状态（ID配对过程中发射器与接收器的LED指示灯会呈绿色慢闪状态）。
3. 配对成功后，发射器与接收器的LED指示灯会呈绿色常亮状态，此时可以松开电源按键。

NUX提供多款型号的5.8GHz无线系统，理想状态下您可以在同一空间内同时使用至多10套NUX 5.8GHz无线系统。请避免将NUX无线系统与其它品牌的无线系统一起使用，否则可能会有噪声或干扰问题。

**注意：**如需同时使用多套B-7PSM，请先开启其中一套待其完成自动配对后再逐一开启其它套。

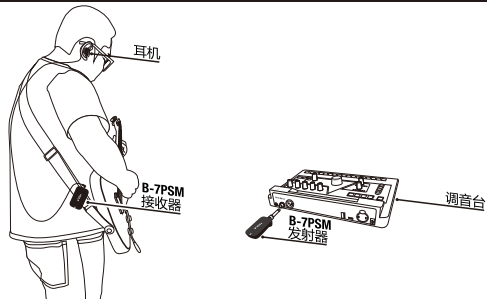
## 调节音量



接收器机身上有音量调节按键，您可以使用音量+或音量-按键来调节音量大小，调节步长为0.5dB。音量的调节范围为-64dB - 0dB，长按音量+或音量-按键可快速调节音量大小。

B-7PSM可以传输高品质立体声音频，可以配合专业的调音台调节音轨的声相，可以胜任小型演出、录音室录音以及乐队排练等任务。

## 使用



1. 根据调音台输出接口大小，决定是否安装6.35mm立体声音频转接头并将插头调整至合适的角度。
2. 将发射器插入调音台然后开机。
3. 将监听耳机插入接收器然后开机。
4. 使用完毕后先关闭接收器电源，拔出监听耳机，然后关闭发射器电源并从调音台拔出发射器，最后将发射器与接收器放回充电收纳盒。

**⚠注意：**切勿在未调节音量前带上耳机，过大的音量会对听力造成永久性伤害。

## 收纳及充电

### • 收纳发射器与接收器

使用完毕后，请按照以下步骤收纳接收器与发射器：

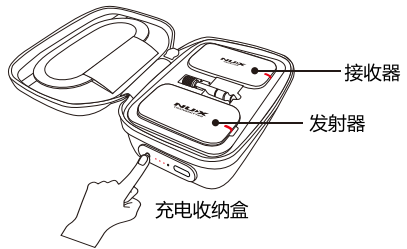
1. 关闭接收器电源，拔出监听耳机。
2. 关闭发射器电源，然后将其从调音台上拔下并将插头轻轻向下推至下限位。
3. 将发射器与接收器放回充电收纳盒。

### • 给充电收纳盒充电



请使用5V输出电流至少为2A的充电器为充电收纳盒充电，低电量到满电状态充电时间约为4小时。

- 使用充电收纳盒为发射器与接收器充电



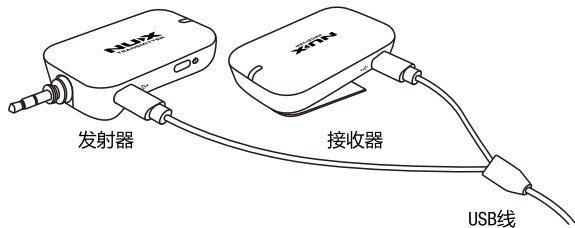
将发射器与接收器关机并放入充电收纳盒，然后按充电收纳盒上的充电按键激活充电功能，开始充电时，充电收纳盒上的电量指示灯会亮起5秒后自动熄灭。发射器与接收器充电时，机身的LED指示灯会呈红色常亮状态，充满电后LED指示灯会自动熄灭。

- 查看充电收纳盒电量  
您可以依据下表查看充电收纳盒在充放电时的电量。

模式	电量状态	LED 1	LED 2	LED 3	LED 4
充电模式	<25%	闪烁	Off	Off	Off
	25%-50%	0n	闪烁	Off	Off
	50%-75%	0n	0n	闪烁	Off
	75%-100%	0n	0n	0n	闪烁
	100%	0n	0n	0n	0n
放电模式 (5秒钟后全部关闭)	>75%	0n	0n	0n	0n
	50%-75%	0n	0n	0n	Off
	25%-50%	0n	0n	Off	Off
	5%-25%	0n	Off	Off	Off
	1%-5%	闪烁	Off	Off	Off
	<1%	Off	Off	Off	Off

## 操作指南

- 使用USB线直接为发射器与接收器充电



您也可以使用随机附送的USB-C充电线直接为发射器和接收器充电，连接方式见上图所示。

## 技术规格

- 工作频段：5.8GHz
  - 有效工作距离：<30m (户外无遮挡)  
≤10m (户外有身体遮挡)
  - 采样精度：24bit
  - 采样频率：40kHz
  - 系统延迟：<5.5ms
  - 动态范围：92dB
  - 频率响应范围：20Hz ~ 19kHz
  - 总谐波失真：<0.6% @1kHz
  - 发射器输入阻抗：3.5kΩ
  - 最大输入电平：7.6Vpp (8.6dBV or 2.7Vrms)
  - 接收器适配耳机阻抗：16Ω ~ 32Ω
  - 最大输出功率：57mWrms (RLOAD = 16Ω, 1kHz)
  - 接收端音量调节范围：-64dB ~ 0dB (步长0.5dB)
  - 发射器/接收器电池容量：450mAh / 3.7V
  - 发射器/接收器电池工作时间：>4小时
  - 发射器和接收器充电时间：约1.5小时
  - 充电收纳盒电池容量：3000mAh / 3.7V
  - 充电收纳盒充电时间：大约4小时
  - 发射器尺寸：60mm(L) x 36mm(W) x 25mm(H)
  - 接收器尺寸：60mm(L) x 36mm(W) x 25mm(H)
  - 充电收纳盒重量：130g
  - 发射器重量：32g
  - 接收器重量：32g
- \*技术规格如有变更，恕不另行通知。
- 随机附件**
- 6.35mm立体声音频转接头
  - USB-C充电线
  - 说明书
  - 保修卡
  - 充电收纳盒

## 有关产品中所含有害物质的说明

为了控制和减少电器电子产品废弃后对环境造成的污染，本资料就本公司产品中所含的特定有害物质及其安全性予以说明。  
本资料适用于2016年7月1号以后本公司所制造的产品。

### 环保使用期限



此标志适用于在中国国内销售的电子信息产品，表示环保使用期限的年数。所谓环保使用期限是指在制造日期的规定期限内，产品中所含的有害物质不致引起环境污染，不会对人身、财产造成严重的不良影响。环保使用期限仅在遵照产品使用说明，正确使用产品的条件下才有效。不当的使用，将会导致有害物质泄漏的危险。

### 产品中有害物质的名称及含量

部件名称		有害物质					
		铅 (Pb)	汞 (Hg)	镉 (Cd)	六价铬 (Cr(VI))	多溴联苯 (PBB)	多溴二苯醚 (PBDE)
主体	塑胶件	○	○	○	○	○	○
	五金件	×	○	○	○	○	○
	硅胶件	○	○	○	○	○	○
	内置电路板	×	○	○	○	○	○
附件	*交流电源适配器、线缆	×	○	○	○	○	○

\*表示某些产品可能不含有这些项目，上表当中的信息仅在产品含有这些项目时适用。

本表格依据SJ/T 11364的规定编制。

○：表示该有害物质在该部件所有均质材料中的含量均在GB/T 26572规定的限量要求以下。

×：表示该有害物质至少在该部件的某一均质材料中的含量超出GB/T 26572规定的限量要求，因根据现有的技术水平，还没有什么物质能够代替它。

#### 保护环境

如果需要废弃本产品，请遵循本地相关指引，请勿随意丢弃或作为生活垃圾处理，以避免对环境造成污染。

## 质量承诺

亲爱的 **NUX** 用户：

在您使用 **NUX** 产品时，请仔细阅读产品说明书，当您有疑问和困难时，请拨打售后服务热线：**400-990-9866**

- 一周内出现质量问题可退货退款
  - 一月内出现质量问题可调换
  - 一年内出现质量问题可免费维修
  - 终身享有咨询和维修服务
- [ 请向销售商索取正规发票并予以保存 ]

## 换修政策

### 一、包换政策：

- 1、消费者通过正规授权渠道购买的产品，自购机之日起1个月之内，在正常使用情况下出现非人为的产品性能故障、且产品外观及包装保持完好，可向所购机的经销商换机。
- 2、消费者在换机时应出示由经销商开出的购机凭证，否则经销商可以不予更换。

### 二、保修政策：

- 1、消费者通过正规授权渠道购买的产品(以发票所示销售方为准)，自购买之日起1年内，若出现非人为损坏的性能故障，可享受免费维修服务。
- 2、对于超过1年或人为及不可抗力因素造成损坏的产品，我司可提供有偿维修服务。

\*本售后政策仅适用于中国大陆地区，其它国家及地区以当地售后政策及法律法规为准。

## 合格证 Certificate

#### 售后服务地址

广东省珠海市高新区唐家湾镇科技九路10号  
珠海市蔚科科技开发有限公司 售后服务部  
邮编: 519085

检验员  
Inspector

名称  
Name 入耳式无线监听系统

型号  
Type **B-7PSM**

生产日期  
Date

本产品经检验合格  
This product is inspected and approved.  
执行标准: Q/WKDZ 002-2020  
Product is certificated with Q/WKDZ 002-2020

#### 制造商

深圳市蔚科电子科技有限公司

#### 制造商地址

深圳市南山区蛇口兴华路6号南海意库1号楼507  
电话: 0755-2686 9866  
网址: cn.nuxefx.com

#### 生产商

珠海市蔚科科技开发有限公司  
生产商地址  
珠海市高新区唐家湾镇科技九路10号  
电话: 0756-3689866