

无线监听特点简介

Wireless In-ear Monitor Introduction



型号: PSM-200

Model: PSM-200

一款性价比极高的立体声无线监听系统；简易的显示界面、操作简单、使用简单、传输距离远，是中小型舞台乐器组合的首选。发射机为全金属机身，内置锂电池便于户外便携使用，支持 XLR 及 $\Phi 6.3$ 复合式高动态范围立体声音频输入接口，可承受混音器输出，面板有简洁明亮的 LED 指示音频电平输入，音量指示、低电和充电指示和音量调节。接收机采用 OLED 显示屏设计并显示出相关的产品信息，可切换立体声与单声道输出功能。 $\Phi 3.5$ 立体声耳机座输出左右声道各 $80\text{mW}@16\Omega$ 。预设多组互不干扰的频组，并以 SYNC 红外对频过发射机。

PSM-200 is a cost-effective stereo wireless monitoring system. Simple display interface, easy operation, and long transmission distance, it is the first choice for small and medium-sized stage performance and musical instrument combinations. The transmitter is an all-metal body with a built-in lithium battery for outdoor portable use. It equips XLR and $\Phi 6.3$ composite high dynamic range stereo audio input interface, supporting mixer output. The panel has simple and bright LED to indicate audio level input, volume, low battery and charging status and volume adjustment. The receiver is designed with an OLED display and displays relevant product information. It also has switchable stereo and mono output function. Equipped with $\Phi 3.5$ stereo headphone jack output, the output

power of the left and right channel is 80mW@16Ω each. There are multiple preset frequency groups that do not interfere with each other, and the frequency synchronization to the transmitter will be done via IR port.

- UHF 无线立体声音频传输，提供高保真的返听效果；
- UHF wireless stereo audio transmission, providing high-fidelity monitoring effect.
- 乐器组合、中小型舞台返听； Apply to musical instrument combination, small and medium-sized stage monitoring.
- DSP 数字音频压扩，采用 48KHz 音频采样率，将无线传输系统中的噪声降至最佳；
- DSP digital audio companding, adopting 48KHz audio sampling rate to reduce the noise in the wireless transmission system to the best
- 采用创新的双通道技术，将立体声完全分离；
- Adopt innovative dual-channel technology, separate the stereo completely.
- 发射机与接收机输出音量可独立调节；
- The output volume of the transmitter and receiver can be adjusted independently.
- 多个可切换频点或自动搜索干净频点，实现无环境干扰的操作；
- Multiple switchable frequency for selection and automatic frequency scanning to realize operation without environmental interference
- 红外线自动对频并锁定相应频点； Infrared frequency synchronization and lock on to the corresponding frequency.
- 采用 OLED 显示屏显示相应的产品信息； Adopt OLED display and show the corresponding product information.

产品技术指标如下： **Product Technical Index**

系统技术指标 **System Technical Index:**

RF 载波频率范围：470MHz~960MHz；

RF Carrier frequency range:470MHz~960MHz

频率稳定度：0.005% ；

Frequency stability: 0.005%

有效工作距离（理想环境）：≥60 米；

Effective working distance(ideal environment): ≥60 meter

音频压扩：DSP 数字音频压扩；

Audio companding: DSP digital audio companding

音频采样率：48KHz

Audio sampling rate: 48KHz

音频频率响应：50Hz~18KHz ±3dB；

Audio frequency response: 50Hz~18KHz ±3dB

动态范围: 92 dB;
Dynamic range: 92dB
信噪比 (A 加权): 105 dB;
S/N: 105dB
总谐波失真: $\leq 0.8\%$,@1KHz;
T.H.D.: $\leq 0.8\%$,@1KHz
工作温度范围: $-10^{\circ}\text{C} \sim +50^{\circ}\text{C}$;
Working temperature range: $-10^{\circ}\text{C} \sim +50^{\circ}\text{C}$

接收机技术指标 Receiver Technical Index

接收带宽: 470MHz~960MHz;
Receiving frequency range: 470MHz~960MHz
接收方式: 双通道, 超外差式;
Receiving mode: dual channel, Superheterodyne
镜像抑制: 45dBm;
Image suppression: 45dBm
射频灵敏度: 输入 10dBu 时, $S/N \geq 45\text{dB}$;
RF sensitivity: when input is 10dBu, $S/N \geq 45\text{dB}$
静噪调节: 内置设定参数;
SQ adjustment: built-in setting parameters
频率同步方式: 手动式按键设置;
Frequency sync way: manual button setting
耳机输出功率: 80mW@16 Ω ;
Headphone output power: 80mW@16 Ω
输出电平调节范围: 9 级可调, 衰减式调节, 每 2dB 步进;
Output level adjustment range: 9 levels adjustable, attenuation adjustment at every 2dB step
供电方式: AA 1.5V x 2 ; 同时可支持外置充电宝供电
Power requirement: AA1.5 batteriesx 2, it also support power bank to provide power.
正常工作电流: 3V 160mA ;
Working current: 3V 160mA
电池使用时间: ≥ 7 小时;
Battery life: ≥ 7 hours
外形尺寸: 77.5 * 63 * 19.5(mm) ;
Dimensions: 77.5 * 63 * 19.5(mm)
净重 (不含电池): 66.8g ;
Net weight(without battery): 66.8g

发射技术指标 Transmitter Technical Index:

载波带宽: 470MHz~960MH
Carrier bandwidth: 470MHz~960MH
振荡方式: PLL 频率合成;
Oscillation mode: PLL frequency synthesis
发射功率: 13.5dBm ;
RF out power: 13.5dBm

载波误差: 0.005% ;
Carrier error: 0.005%
谐波辐射: -32dBm ;
Harmonic radiation: -32dBm

调制方式: FSK ;
Modulation: FSK
标称/最大频偏: $\pm 65\text{KHz}$;
Nominal/maximum frequency deviation

立体声输入接口: phone $\Phi 6.3\text{mm} * 2$, **XLR 复合插座*2**
Stereo input interface: phone $\Phi 6.3\text{mm} * 2$, XLR composite socket*2
输入阻抗: $2.2\text{K}\Omega$;
Input impedance: $2.2\text{K}\Omega$
输入增益调节范围: 4 级可调设置, 每 3dB 步进;
Input gain adjustment range: 4 adjustable settings by every 3dB step
频率设置: 红外对频同步;
Frequency setting: IR sync
供电方式: 内置锂电;
Power supply: built-in lithium battery
正常工作电流: 130mA ;
Working current: 130mA
满电续航时间: ≥ 15 小时;
Working hour at full charge: ≥ 15 hours
外形尺寸: $12.8 * 85 * 48.2(\text{mm})$;
Dimensions: $12.8 * 85 * 48.2(\text{mm})$
净重: 526g ;
Net weight: 526g