# Wireless Microphone TP-SXAK8

## Microphone call control embedded software V1.32

**Description**

It is a digital wireless microphone system with a new solution architecture. The system adopts unique digital U-band transmission technology, pi/4-DQPSK modulation mode, PLL phase-locked loop multi-channel frequency synthesis technology and uses ID code pilot technology to prevent cross-frequency interference, and frequency sweep to avoid interference, characterized by low bit error rate, stable transmission, and strong anti-interference ability. It can be widely used in conferences, training, public broadcasting, large-scale parties and other places.

**Feature**

* Based on the digital U-band transmission technology, pi/4-DQPSK modulation mode, using domestic main control chip, the transmission distance is 80 meters; it has reverberation, equalization, intelligent mute, audio encryption, and power adjustment functions.

* It has 1 receiving host and 1 handhold transmitter; the frequency range is 470MHz-510MHz, 540MHz-590MHz, 640MHz-690MHz, 823-832 MHz, 863-865 MHz. The transmitter adopts ergonomic design, the shape is rounded and fits the curve of the hand, and it feels comfortable to hold.

* It has audio encryption function. After it is turned on, the microphone and the receiver use the unique ID code pilot encryption technology to achieve the effect of no cross-frequency of the equipment.

* It has multi-band equalization adjustment function, 2197 kinds of equalization adjustment, microphone equalizer adjustment function, with three adjustment gears of high, medium and bass, and each effect supports 13 gears of adjustment.

* It has an automatic mute function. When the microphone falls or is thrown, it will automatically mute in milliseconds to avoid impact sound; it monitors the device posture in real time, and it will mute after 5 seconds of silence and shut down after 8 minutes without manual intervention.

* It has an automatic frequency scanning function, which can quickly find a clear frequency for the transmitter and is easy to operate.

* It can easily pair the transmitter and the receiver through infrared scanning and synchronization.

* It has a multi-level reverberation adjustment function, 15625 reverberation effects, effect proportion, reverberation delay, and reverberation amplitude adjustment, and the three sound effects each have 25 adjustment methods.

* It has one balanced output and one unbalanced output to meet different user needs.

* The front panel of the receiver has 1 TFT-LCD display, 1 encoding knob, 1 frequency scanning physical button, 1 infrared frequency matching physical button, 1 power switch button, and 1 two-in-one indicator light (infrared transmitter + frequency matching indicator light); the rear panel has 1 LINE-OUT interface, 1 XLR-OUT interface, 1 BNC interface, and 1 DC interface. The transmitter has 1 LCD display, 1 power on/off/mute button and LED status indicator.

* The receiver has a 2.2-inch TFT-LCD display. Users can view the device's RF signal strength, audio signal strength, microphone on status, handheld microphone battery status, current frequency value, volume, language switching options, etc. through the display, and can easily obtain the current information of the device.

* The transmitter has a 0.96-inch LCD display, which can display frequency information, audio encryption status, power gear, mute status, and battery grid information.

* The microphone has a long-term automatic shutdown function. The device automatically detects the working status (use status, static status). The microphone automatically mutes after 5 seconds of

static, and automatically shuts down after 8 minutes of static. No interference with 4G.

* It has a one-button mute button. Short press the button to turn on or off the microphone mute function.

* The receiver panel is made with exquisite craftsmanship and looks beautiful; the microphone uses a high-reduction dynamic microphone core and a professional sound cavity design, and the sound quality presents natural original sound.

* It has an ID code anti-crosstalk function and uses a 32-bit unique ID code for receiving and transmitting pairing. The sending and receiving ID codes must be the same to pair, which can effectively prevent signals of the same frequency from interfering with each other.

* It has a long battery life and the transmitter can be used continuously for 10 hours.

**Specification**

| **System** | |
|---|---|
| Frequency range | 470MHz - 510MHz, 540MHz - 590MHz, 640MHz - 690MHz,<br>823 MHz - 832 MHz, 863 MHz - 865 MHz |
| Modulation mode | pi/4-DQPSK |
| THD+N | ＜0.1% |
| Bandwidth | 50MHz |
| Working distance | About 80m |
| **Receiver** | |
| Antenna interface | BNC/50Ω |
| Frequency Oscillation Mode | Phase-locked loop (PLL) |
| Receiving Sensitivity | -95 dBm, S/N > 80 dB |
| Maximum output | Balanced output 500mV, unbalanced output 1000mV |
| Bandwidth | 2 MHz |
| SNR | 106dB |
| Frequency response | 20Hz~20kHz （±2dB） |
| Power supply | DC 12V/1A |
| Working current | ≤300mA |
| Dimension (L*W*H) | 214×212×43.6mm |
| Weight | 1.319kg |
| **Transmitter** | |
| Microphone cartridge | Dynamic microphone (single handheld microphone) |
| Frequency Oscillation Mode | Phase-locked loop (PLL) |
| Output power | ≥10dBm |
| Working current | ≤200mA |
| Battery | 2×1.5V(AA) |

| | |
|---|---|
| Battery life | >10H |
| Dimension (including microphone cartridge) | 245mm×39mm |
| Weight | 0.4kg (including battery) |