



Microphone collector

T-8820UH



Description

Digital wireless microphone acquisition units are widely applicable to various sound reinforcement scenarios such as school playgrounds, parks, and squares, providing teachers, students, narrators, and speakers with a clear and stable sound transmission experience, while achieving an efficient sound reinforcement solution with ultra-wide coverage.

Features

- *The 1U standard rack-style design features an aluminum panel made of SPCC cold-rolled steel, making it both aesthetically pleasing and practical.
- *Based on digital U-band transmission technology, using pi/4-DQPSK modulation, and employing a domestically produced main control chip; it features functions such as reverberation, intelligent mute, and power adjustment.
- *It features built-in UHF dual-true diversity receiver and employs PLL phase-locked loop multi-channel frequency synthesis technology.
- *The built-in LCD screen can simultaneously display the channel number and operating frequency. Touch-sensitive buttons provide convenient and quick operation.
- *The built-in anti-interference module can effectively suppress external noise interference and co-channel interference.
- *It features audio encryption; when enabled, the microphone and receiver use a unique ID code pilot encryption technology to prevent crosstalk between devices.
- *It has an infrared frequency matching function, which can easily and quickly synchronize the transmitter and receiver frequencies through infrared scanning and synchronization .
- *It has both local balanced and unbalanced output ports to adapt to different device connection needs.
- *The microphone has a rich and full midrange , and the sound is both magnetic and deep , with good vocal performance.
- *It has a built-in network audio decoding function, supports mainstream audio formats such as MP3, WAV, FLAC, OGG, AAC, and OPUS, and is compatible with a full sampling rate of 8kHz-48kHz. It supports playback of audio with sampling rates of 8kHz, 16kHz, 32kHz, 44.1kHz, and 48kHz.
- *Built-in DSP audio processing supports ultra-low latency digital mixing and 10-band EQ equalization.
- *It has a 1-line (AUX) input interface, supporting local audio capture and network playback.
- *It has a 1-channel LINE OUT interface for connecting an external amplifier .
- *The main handheld microphone has built-in function buttons and a display screen, which can perform wireless remote control operations such as task confirmation, pause/resume, stop, volume up, and volume down.
- *It can preset 20 tasks, enabling music playback or microphone amplification at any time, any number of terminals, and any volume.
- *It supports terminal IP conflict detection and real-time monitoring of terminal packet loss rate; it also supports Dynamic Host Configuration Protocol (DHCP) and static IP configuration .
- *The system adopts a data redundancy encoding and decoding algorithm and supports packet loss recovery function. After the packet loss recovery function is enabled, audio playback is smooth even when the network packet loss is 37.5%.
- *It adopts ultra-long-range wireless remote control technology, perfectly integrating remote control function with wireless microphone, making operation more convenient and efficient, and meeting diverse usage needs.
- *It supports simultaneous charging of both microphones via the charging dock, and displays the real-time charging level through the charging dock.
- *It supports remote firmware upgrades and network-based device maintenance, reducing the workload of personnel .



Specification

Network interface	Standard RJ45 input
Transmission rate	100Mbps
Supported agreement	TCP/IP, UDP, IGMP, ICMP
AUX input sensitivity	350mV (Standard RCA socket/ unbalanced)
LINE OUT output sensitivity	1000mV (Standard RCA socket/ unbalanced)
MIC output sensitivity	1000mV single unbalanced output interface (standard 6.35mm TS jack) 500mV 2-channel balanced output interface (standard balanced XLR)
Harmonic distortion	THD \leq 0.1 %
Frequency response	8 0Hz ~ 1 6kHz (+1/-3dB)
Signal-to-noise ratio	\geq 73dB
Wireless microphone frequency range	600-640MHz
Frequency oscillation mode	Phase-locked loop circuit
Total number of channels	300CH
Wireless microphone operating distance	120 meters in open, unobstructed areas (200 meters in open, unobstructed areas requires an additional antenna amplification kit).
Bandwidth	25MHz
Input power	DC24V 2A
Microphone sensitivity	-50dB \pm 2dB (1 kHz)
Number of microphones	Two (one of which has a remote control function)
Operating ambient temperature	5 °C ~ 40 °C
Working environment humidity	20%–80% relative humidity, no condensation
Receiver dimensions (W×D×H)	482.6 × 229.76 × 43.6 mm
Receiver weight	3.5kg
Microphone weight	Main microphone: 0.3kg (including battery); Secondary microphone: 0.385kg (including battery)
Microphone charging base weight	0.5kg