



Product Overview

VT-U964 adopts dual-transmitter true diversity design with up to 150m optimal reception. It supports infrared frequency sync and manual tuning, adjustable signal range and reliable stacking layout. A frequency lock button prevents accidental parameter shifts, while intelligent ID recognition lets multiple sets run interference-free.

Its alloy transmitters use two 1.5V batteries for long endurance, with backlit LCD and 50 MHz bandwidth perfect for KTV. The PLL receiver covers 640–690 MHz with 200 FM channels via double-conversion superheterodyne reception. Equipped with one 6.35mm mixed output and two balanced jacks, it delivers low distortion and wide dynamic range, stable working at -18°C~+50°C with compact 480×210×44mm size.

Suitable for applications including:

- ✓ KTV entertainment rooms
- ✓ Indoor & outdoor stage performances
- ✓ Multi-function conference halls
- ✓ Lecture theatres and training classrooms
- ✓ Hotel banquet halls
- ✓ Church worship venues
- ✓ Campus auditoriums
- ✓ Business exhibition centers
- ✓ Live event hosting venues
- ✓ Multimedia speech rooms



Key Features

1. Dual-channel true diversity wireless system with stable reception up to 150 meters, adjustable receiving distance and reliable stacking performance
2. Infrared frequency sync plus manual tuning, with frequency lock button to avoid accidental parameter changes
3. Intelligent ID anti-interference technology, supporting multiple sets working simultaneously without signal crosstalk
4. 200 selectable UHF channels within 640–690MHz, 50MHz wide bandwidth for convenient frequency band switching, perfect for KTV
5. Dual audio output design: one unbalanced 6.35mm jack and two independent balanced XLR outputs
6. Handheld transmitters made of high-strength alloy, powered by two 1.5V batteries for long service life and easy maintenance
7. Backlit LCD screens on both receiver and microphones for clear real-time parameter reading
8. Professional PLL double-conversion superheterodyne receiving circuit, wide dynamic range over 110dB, low THD less than 0.5% and full 60Hz–17kHz audio frequency response

Technical specifications

Model	VT-U964
Carrier Frequency Range	640–690 MHz
Oscillator Type	PLL (Phase-Locked Loop)
Bandwidth & IF Frequency	30 MHz per channel, total 60 MHz; 1st IF: 110 MHz, 2nd IF: 10.7 MHz
Modulation Mode	FM (Frequency Modulation)
Channel Quantity	200 channels, support infrared automatic frequency synchronization
Antenna Interface	BNC
Operating Temperature	–18°C ~ +50°C
Display	LCD
Frequency Deviation	±45 kHz
Receiving Sensitivity	–100 dBm (40 dB S/N)
Dynamic Range	>110 dB
Spurious Suppression	>80 dB
Audio Frequency Response	60 Hz – 17 kHz
Unbalanced Audio Output	+4 dB (1.25 V), load impedance 5 kΩ
THD (Total Harmonic Distortion)	<0.5%
Balanced Audio Output	+10 dB (1.5 V), load impedance 600 Ω
Reception Circuit Structure	Double-conversion superheterodyne
Operating Current	250 mA
Dimension (L × W × H)	480 × 210 × 44 mm
Power Consumption	20 W