

TouchTunes Karaoke Microphone Receiver and Wireless Microphone Kit

About This Document

This document is intended for Operators of TouchTunes Karaoke, TouchTunes Field Service, Customer Support, and Sales personnel.

It explains the specifications of the TouchTunes Karaoke Wireless Receiver and Microphones.

Kit Overview

The TouchTunes Karaoke Microphone Receiver and Wireless Microphone Kit contains 3 major components: one wireless microphone receiver and two wireless microphones.

1 - The receiver connects to the RJ45 on the TouchTunes Virtuio. It requires no power adapter, as the power is supplied via the RJ45.

2 - Two wireless high-quality microphones with a 17 hour battery life, and a low battery indicator.



Specifications

Mute Control: Noise Lock

Frequency Control +/- 18kHz

Frequency Response: 80Hz-15kHz

Frequency Stability: +/- 0.005%

S/N Ratio: > 70dB

Total Harmonic Distortion: <0.5 % (at 1kHz)

Number of Channels: 2 Channels

Receiving Sensitivity: -80dBm

Operating Range: 50m in Open Area

Resonance Interference Rate: Greater than or equal to 50dB

False Image Interference Rate: Greater than or equal to 80dB

Carrier Frequency Band: VHF-H

Output Type: Separate and Mixed Output (auto-selecting)

Wireless Handheld Microphones

Modulation Mode: FM

Transmit Power: Less than or equal to 10mW

Max Adjust Degree: +/- 20kHz

Transmitter Power Supply: 9V Battery

Belt-Pack Transmitter

Modulation Mode: FM

Transmit Power: Less than or equal to 10mW

Max Adjust Degree: +/- 20kHz

Transmitter Power Supply: AA1.5V X 2

Features

Uses VHF-H frequency band for obviating interference

Uses multilevel high frequency and mid frequency narrowband filter for fully eliminating signal disturbing

Low-voltage power supply design keeps it working even at 4V

Unique AIC circuitry for avoiding distortion from high volume

Low voltage indication available on handheld microphone

Circuit controlled switching noise avoidance

Quartz crystal oscillator circuitry for extremely stable frequency

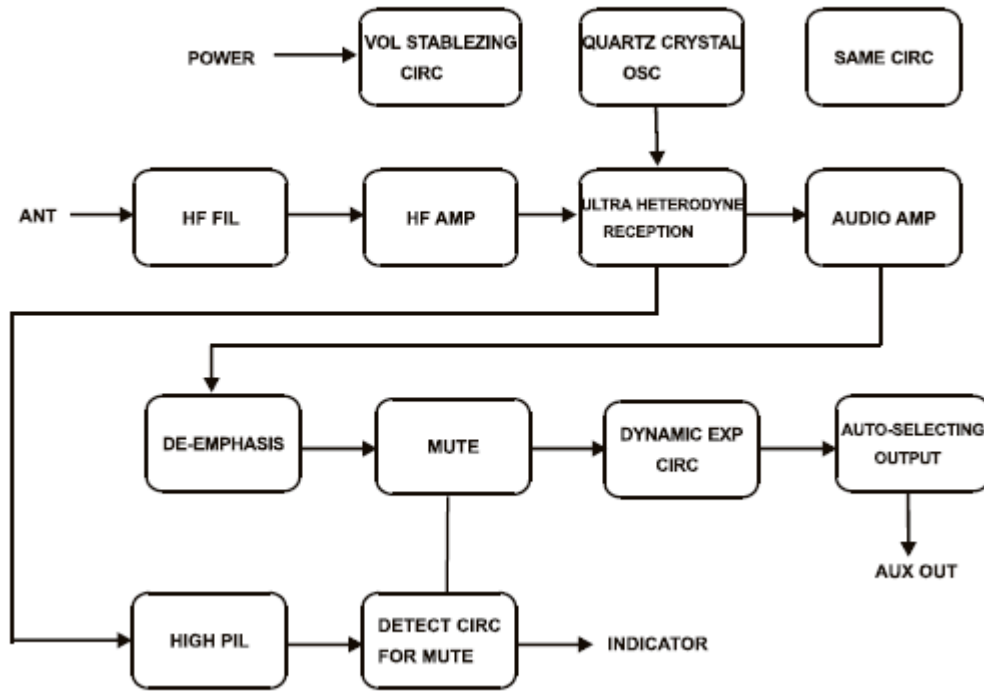
Audio companding technique for reducing the noise and increasing the dynamic range

Effective feedback control circuitry

Independent unbalanced and mixed outputs

Rugged and durable handheld microphone design

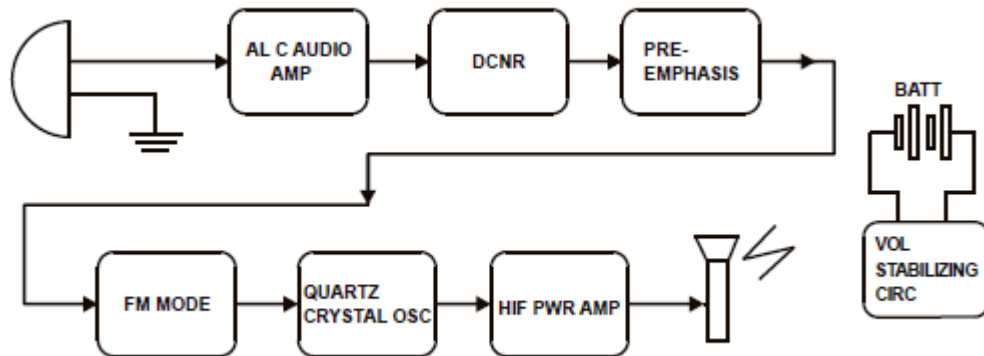
Receiver Overview



Wireless Receiver Operating Instructions

- 1) Plug the connector of the power adaptor into the socket of power Source, please make sure the power voltage is AC 230V/50-60Hz.
- 2) Turn on the power switch, the power indicator lights.
- 3) Pull out the antenna A & B and make them perpendicular to the unit.
- 4) 2 -Audio Output Connection (auto-selecting): If the mix output is needed, only use 1 audio output cable and connect it with any output socket. If independent output is required, please connect another cable.
- 5) The "RF" indicator of receiver will light when turning on the transmitter. Swivel the volume knob to adjust the sound.
- 6) When not using the receiver for a long time, please disconnect it from the power adaptor.

Microphone Overview



Wireless Receiver Operating Instructions Microphone Operating Instructions:

1) **Handheld Microphone:** Rotate the battery cover anti-clockwise, and put a 9V battery into the battery compartment with proper polarities, then rotate the battery cover clockwise till it is tight enough. **Belt-pack Transmitter:** Open the battery cover by pressing the "OPEN" sign, then put in the batteries. (Caution: the battery must be in Correct Polarities.

2) Push the microphone power switch to the "ON" position. If the power indicator doesn't light, please check if the battery is full enough or the battery polarities are correct.

3) If the mute function is needed, please push the switch to the middle position, then the microphone will be in mute state and the unit is still working.

4) Plug the tie-clip or headset microphone into the "MIC" socket of the belt pack transmitter.

5) When not using the microphone for a long time, please take out the batteries from the microphone base in order to avoid damaging the unit by chemical leakage from the battery.

CAUTION

- The receiver should be more than 1m above the floor and more than 1m away from the walls.
- For better effect, please do not put the microphone in the dead angle place while using
- Please be careful while operating the system, any impacts, plumps or misuse can cause malfunction
- Do not expose the system directly to sun and rain, and keep it away from magnetic field.
- Any change or modification on the construction of this device, which are not expressly approved by the party responsible for compliance, could cause a malfunction and void the user's authority to operate the equipment.
- Do not disassemble the unit by yourself, as there may be high voltage inside.
- Specifications are subject to change without prior notice.

Troubleshooting

Issue	Resolution
The receiver is turned on, but the indicator light is not on.	Check if the adaptor is well connected, and if the socket is broken.
The "RF" indicator lights are on while speaking, but not output signal is available.	Check if the power switch is in the middle position, or the volume control is on the minimum position.
As the distance increases, the signal weakens.	1) Pull out the antenna. 2) Check if the batteries are running off and replace them with the fresh ones if needed. 3) Check if the receiver is put in inappropriate position, i.e. on the ground or at the corner of the wall or in a strong magnetic field. If so, change its position.
Sound quality is irregular.	1) The battery of the microphone is running off, please replace it with fresh one. 2) Check if there is same frequency signal problem, do not use two units with same frequency at the same time in the same area. (The distance must be at least 100m between two units with same frequency.)

Contacting TouchTunes Support

If you need help with or have questions about this document, contact TouchTunes by:

- Using the email links on the Contacts page on the TouchTunes Dashboard at <https://operator.touchtunes.com>.
- Calling TouchTunes 24/7 Service Hotline at 847-353-1954.

To help us assist you more effectively with problem reports, the following information may be required when contacting TouchTunes Support:

- SmartJuke ID.
- The serial number of any component you believe to be defective.
- The date/time of the problem.
- Actions performed immediately before the problem occurred.
- Any additional comments.

If you require assistance with this or any other TouchTunes product, please contact technical support. We value your comments.

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FCC WARNING

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.

NOTE 1: Any changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.