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## Talent Sound & Lighting TX-50RF

# Talent TX-50RF Silent Disco 3 Channel Transmitter User Manual

Model: TX-50RF | Brand: Talent Sound & Lighting

## PRODUCT OVERVIEW

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The Talent TX-50RF is a 3-channel UHF/RF transmitter designed specifically for use with Talent RF-309 Silent Disco Headphones. This system enables multiple audio streams to be broadcast simultaneously, allowing users with compatible headphones to select their preferred audio channel. It is ideal for silent disco events, multi-language presentations, or any application requiring individual audio selection within a shared space.

Key features include:

- 3-channel UHF/RF transmission.
- Compatibility with Talent RF-309 Silent Disco Headphones.
- Integrated LEDs on headphones illuminate to indicate the selected channel.
- Selectable broadcast power modes: "High" for up to 1,600 ft. operational range, and "Low" for up to 640 ft.
- Powered by a 12 VDC, 1.3A power supply (included).

## SETUP INSTRUCTIONS

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Follow these steps to set up your TX-50RF transmitter:

1. **Unpack Components:** Carefully remove the TX-50RF transmitter, antenna, and 12V DC power supply from the packaging.
2. **Connect Antenna:** Screw the provided antenna securely into the antenna port on the front of the transmitter. Ensure it is finger-tight.



Image: Front view of the TX-50RF transmitter with the antenna connected to the right side.

3. **Connect Audio Input:** Connect your audio source (e.g., mixer, media player) to the "AUDIO INPUT" RCA jacks (L for left, R for right) on the rear panel of the transmitter. Use standard RCA cables.



Image: Detailed view of the rear panel of the TX-50RF, highlighting the DC12V power input and the L/R RCA audio input jacks.

4. **Connect Power:** Plug the 12V DC power supply into the "DC12V" input jack on the rear panel of the transmitter. Then, plug the power supply into a standard electrical outlet. The power indicator LED (red) next to the DC input will illuminate.



Image: All components of the TX-50RF system laid out: the transmitter unit, the detachable antenna, and the 12V DC power adapter.

5. **Position Transmitter:** Place the transmitter in a central location, free from obstructions, to maximize signal range and quality.

## OPERATING INSTRUCTIONS

Once the transmitter is set up, follow these steps for operation:

1. **Select Channel:** Press the "CHANNEL" button on the front panel to cycle through the available channels (1, 2, or 3). The digital display will show the currently selected channel.



Image: Front view of the TX-50RF, showing the red digital display indicating the active channel and the adjacent channel selection button.

2. **Set Broadcast Mode:** On the rear panel, locate the "OFF | HIGH | LOW" switch.
  - Set to "**HIGH**" for maximum operational range (up to 1,600 ft / 487 meters).
  - Set to "**LOW**" for shorter range applications (up to 640 ft / 195 meters) or to conserve power.
  - Ensure the switch is not in the "OFF" position during operation.



Image: Detailed view of the rear panel of the TX-50RF, focusing on the three-position switch for power (OFF) and broadcast range (HIGH/LOW).

3. **Start Audio Playback:** Begin playing audio from your connected source.
4. **Headphone Pairing:** Ensure Talent RF-309 Silent Disco Headphones are powered on and set to the same channel as the transmitter. The headphones will automatically receive the audio signal.

## MAINTENANCE

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Proper maintenance ensures the longevity and optimal performance of your TX-50RF transmitter:

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the unit. Do not use liquid cleaners, aerosols, or solvents, as these may damage the finish or internal components.
- **Storage:** When not in use for extended periods, store the transmitter in a cool, dry place, away from direct sunlight and extreme temperatures.
- **Connections:** Periodically check all cable connections (power, audio, antenna) to ensure they are secure and free from damage.
- **Ventilation:** Ensure the unit has adequate ventilation and that no vents are blocked during operation.

## TROUBLESHOOTING

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If you encounter issues with your TX-50RF transmitter, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No power indicator light.	Power supply not connected or faulty; outlet not active.	Ensure the 12V DC power supply is securely connected to the transmitter and a working electrical outlet. Test the outlet with another device.
No audio signal to headphones.	Incorrect channel selected; audio source issue; transmitter not broadcasting; headphones not paired.	<ul style="list-style-type: none"> <li>• Verify the transmitter and headphones are on the same channel.</li> <li>• Check audio cables from the source to the transmitter.</li> <li>• Ensure the broadcast mode switch is set to "HIGH" or "LOW", not "OFF".</li> <li>• Confirm audio is playing from the source.</li> </ul>
Audio is scratchy, fuzzy, or cuts out.	Out of range; interference; loose antenna; low broadcast mode.	<ul style="list-style-type: none"> <li>• Move closer to the transmitter.</li> <li>• Ensure the antenna is securely attached.</li> <li>• Switch the broadcast mode to "HIGH" if it's on "LOW".</li> <li>• Minimize obstructions between the transmitter and headphones.</li> <li>• Check for strong interference sources nearby (e.g., Wi-Fi routers, other wireless devices).</li> </ul>
Channel display not working.	Unit malfunction.	Ensure the unit has power. If the issue persists, contact customer support.

## SPECIFICATIONS

Feature	Detail
Model Number	TX-50RF
Brand	Talent Sound & Lighting
Channels	3 (UHF/RF)
Operational Range (High)	Up to 1,600 ft (approx. 487 meters)
Operational Range (Low)	Up to 640 ft (approx. 195 meters)
Power Supply	12 VDC, 1.3A (included)
Audio Input	RCA L/R
Product Dimensions	25.4 x 17.78 x 7.62 cm (approx. 10 x 7 x 3 inches)
Item Weight	521.63 g (approx. 1.15 lbs)
Connectivity Technology	Wireless

## WARRANTY AND SUPPORT

**Warranty Information:** Specific warranty terms and conditions for the Talent TX-50RF transmitter are typically provided at the time of purchase or can be found on the official Talent Sound & Lighting website. Please retain your proof of purchase for warranty claims.

**Customer Support:** For technical assistance, troubleshooting beyond this manual, or warranty inquiries, please contact Talent Sound & Lighting customer support directly. Refer to the contact information provided with your product packaging or visit the manufacturer's official website for the most up-to-date support details.

*Note: Product specifications and features are subject to change without notice.*