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> Gochanmi TLM4-2S 4-Channel UHF Wireless Microphone System Instruction Manual

Gochanmi TLM4-2S

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Instruction Manual

1. PRODUCT OVERVIEW

The Gochanmi TLM4-2S is a professional 4-channel UHF wireless microphone system designed for various audio applications. It features advanced digital pilot function to eliminate interference, 29 electronic volume controls for simple adjustment, and a clear, beautiful sound quality with an ideal operating distance of up to 100 meters (320 feet).

This system offers 100 selectable frequency groups, providing strong anti-interference capabilities. It includes a feedback suppression function to effectively reduce howling. The UHF ultra-high frequency band ensures more reliable transmission with less interference compared to VHF bands. The digital DPLL phase-locked loop multi-channel frequency synthesis technology allows for up to 100 channels within a 50MHz frequency bandwidth, making it easy to use multiple sets simultaneously and avoid interference.

Advanced automatic frequency technology ensures that even if the transmitter and receiver frequencies are out of sync, a simple press will automatically lock the transmitter to the receiver's frequency. The system also features an easy-to-use receiver sensitivity adjustment function, allowing users to enhance anti-jamming capabilities or extend reception distance as needed. A high-grade LCD screen clearly displays channel information.

Key Features:

- 4-channel UHF wireless system.
- Advanced digital pilot function for interference elimination.
- 29 electronic volume controls.
- Operating distance up to 100 meters (320 feet).
- 100 selectable frequency groups for strong anti-interference.
- Feedback suppression to reduce howling.
- Digital DPLL multi-channel frequency synthesis.
- Automatic frequency matching technology.
- Adjustable receiver sensitivity.
- High-grade LCD display for clear channel information.
- Durable alloy mesh head and high-hardness alloy microphone body.
- High-fidelity moving coil microphone capsule with low distortion and wide frequency range.

Recommended Uses:

- Karaoke
- Musical Instruments
- Recordings
- Vocals
- Live Performances
- Podcasts
- Interviews
- Speeches
- Meetings
- Church Services
- Classroom Settings



Figure 1: The Gochanmi TLM4-2S system is versatile and suitable for various applications such as concerts, speeches, meetings, activities,

2. PACKAGE CONTENTS

Please check the package contents upon unboxing to ensure all components are present and undamaged.

- 1 x TLM4-2 Receiver (Transmitter Unit)
- 4 x Handheld Microphones
- 2 x Antennas
- 1 x Power Adapter
- 1 x 6.35mm Audio Cable
- 1 x Instruction Manual
- Protective Sponge (for microphones)
- Anti-slip Rings (for microphones)

TLM4-2S

LA LISTA DE EMBALAJE

- ① TLM4-2 TRANSMISOR
- ② ANTENA
- ③ CABLE 6.35MM
- ④ MANUAL
- ⑤ FUENTE DE PODER
- ⑥ ESPONJA PROTECTORA
- ⑦ ANTIDESLIZANTE
- ⑧ MICROFONO *4
- ⑨ CAJA DE EMBALAJE

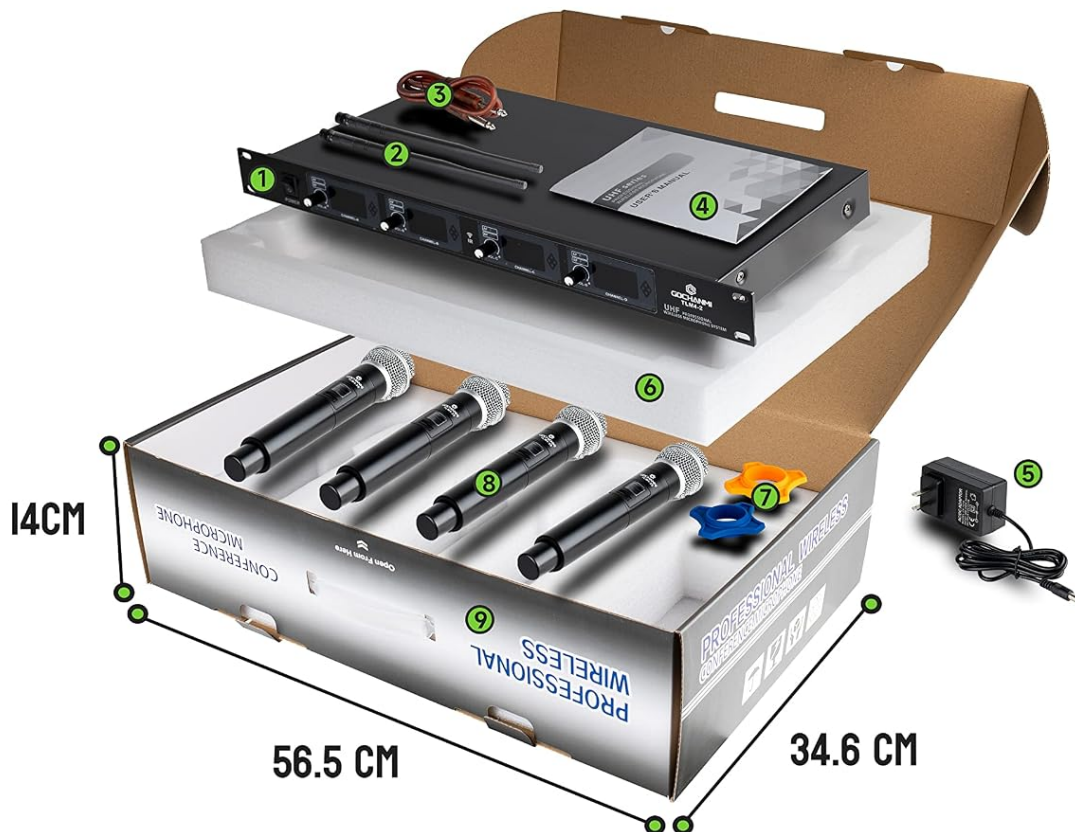


Figure 2: Visual representation of the Gochanmi TLM4-2S package contents, including the main receiver unit, four handheld microphones, two antennas, power supply, and audio cable.

3. SETUP INSTRUCTIONS

3.1 Receiver Placement

- Ensure the transmitter (microphones) and receiver antennas are in a direct line of sight for optimal signal transmission.
- Do not place the receiver near metal surfaces or any digital devices that may cause interference, such as CD players or computers.
- Position the receiver approximately 1.5 meters (5 feet) above the ground and at least 1 meter (3 feet) away from walls to minimize signal obstruction and reflection.

3.2 Connecting the System

1. **Connect Antennas:** Attach the two antennas to the ANT A and ANT B connectors on the rear panel of the receiver.
2. **Connect Audio Output:**
 - For individual microphone outputs, use XLR cables to connect the XLR output jacks (CH A, CH B, CH C, CH D) on the receiver to your mixer or amplifier.
 - For a combined output of all four channels, use the provided 6.35mm audio cable to connect the MIX OUT jack on the receiver to your mixer or amplifier.
3. **Connect Power:** Plug the power adapter into the DC INPUT jack on the receiver and then into a suitable power outlet.
4. **Insert Batteries into Microphones:** Open the battery compartment of each handheld microphone and insert the required batteries (not specified in JSON, assume standard AA or AAA).



Figure 3: Connection demonstration for the TLM4-2S receiver, illustrating how to connect to various audio equipment such as mixers, amplifiers, and audio interfaces.

4. OPERATING INSTRUCTIONS

4.1 Receiver Panel Functions



Figure 4: Detailed view of the TLM4-2S receiver's front and rear panels, highlighting key indicators and connection points.

- **Power Button:** Located on the front panel, use this to turn the receiver ON or OFF.
- **Volume Controls (VOL A, VOL B, VOL C, VOL D):** Each channel has an electronic volume control. Rotate to adjust the output level of the corresponding microphone. The system features 29 electronic volume control levels.
- **Frequency Display:** The LCD screen for each channel displays the current operating frequency.
- **AF Indicator (Audio Frequency):** When the green AF indicator is lit, it signifies that audio signal is being received from the microphone.
- **RF Indicator (Radio Frequency):** When the red RF indicator is lit, it signifies that a stable wireless connection has been established with the microphone.
- **Gain Adjustment:** Some models may feature a gain adjustment knob. Turn left to reduce the input signal level from

the microphone, and turn right to increase it.

- **Antenna Connectors (ANT A, ANT B):** Located on the rear panel, for connecting the external antennas.
- **XLR Output Connectors (CH A, CH B, CH C, CH D):** Balanced audio outputs for individual microphone channels.
- **Mixed 6.35mm Output (MIX OUT):** Unbalanced audio output combining all four microphone channels.

4.2 Microphone Operation

- **Powering On/Off:** Locate the power switch on the microphone handle. Slide or press to turn the microphone ON or OFF.
- **LCD Display:** The microphone's LCD screen displays information such as frequency, signal strength, and remaining battery level.
- **Automatic Frequency Matching:** If the microphone and receiver frequencies become mismatched, simply press the frequency matching button (if available, usually indicated by "IR" on the receiver) on the receiver. The transmitter will automatically lock to the receiver's frequency.

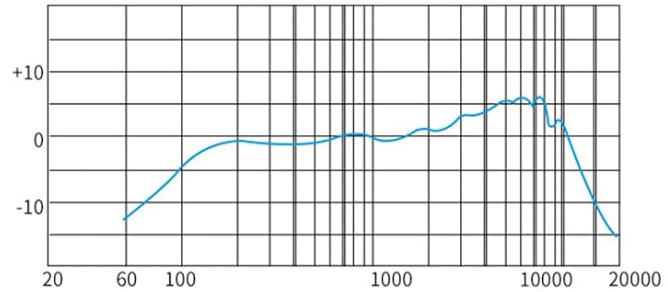
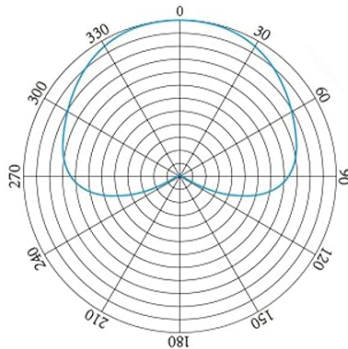


Figure 5: Features of the Gochanmi wireless microphone, including its durable alloy mesh head, high-definition LCD screen, and robust

alloy body.

CÁPSULA DE MICRÓFONO

BOBINA MOVIL DE ALTA FIDELIDAD



- ✓ **BAJA DISTORSION**
- ✓ **ALTA RESISTENCIA AL RUIDO**
- ✓ **AMPLIO RANGO DE FRECUENCIA**

Figure 6: Details of the microphone's high-fidelity moving coil capsule, emphasizing its low distortion, high resistance to noise, and wide frequency response.

5. MAINTENANCE AND CARE

Proper maintenance ensures the longevity and optimal performance of your Gochanmi wireless microphone system.

- **Cleaning:** Use a soft, dry cloth to clean the receiver and microphones. Do not use abrasive cleaners or solvents. For the microphone mesh head, a slightly damp cloth can be used, ensuring no moisture enters the microphone body.
- **Storage:** When not in use, store the system in a cool, dry place away from direct sunlight and extreme temperatures. Remove batteries from microphones if storing for extended periods to prevent leakage.
- **Handling:** The microphones feature an alloy mesh head resistant to impacts and a high-hardness alloy body. While durable, avoid dropping or subjecting them to severe physical shocks.
- **Battery Replacement:** Replace microphone batteries promptly when the low battery indicator appears on the

microphone's LCD screen.

6. TROUBLESHOOTING

This section addresses common issues you might encounter with your wireless microphone system.

Problem	Possible Cause	Solution
No sound from microphone.	• Microphone not powered on. • Low or dead batteries in microphone. • Receiver not powered on. • Microphone and receiver not paired (RF indicator off). • Receiver volume too low. • Audio cable disconnected or faulty. • Mixer/amplifier input volume too low.	• Turn on microphone. • Replace batteries. • Turn on receiver. • Perform automatic frequency matching. • Increase receiver volume. • Check and reconnect audio cables. • Increase mixer/amplifier input volume.
Interference or static noise.	• Receiver too close to metal objects or digital devices. • Obstructions between microphone and receiver. • Operating frequency interference from other devices. • Receiver placed too low or too close to a wall.	• Relocate receiver away from metal and digital devices. • Ensure clear line of sight between microphone and receiver. • Select a different frequency group (system has 100 options). • Place receiver 1.5m from ground and 1m from walls.
Howling or feedback.	• Microphone too close to speakers. • Microphone volume too high. • Feedback suppression not optimized.	• Move microphone away from speakers. • Reduce microphone volume on the receiver. • Adjust receiver sensitivity to improve anti-jamming.
Short transmission distance.	• Obstructions or poor receiver placement. • Low microphone battery. • Receiver sensitivity setting.	• Optimize receiver placement (1.5m height, 1m from wall, clear line of sight). • Replace microphone batteries. • Adjust receiver sensitivity to increase reception distance.

UHF TECNOLOGÍA DE ANTIINTERFERENCIA

UHF (ULTRA HIGH FREQUENCY) ES ACTUALMENTE UNA BANDA DE COMUNICACIÓN INALÁMBRICA DE AUDIO MUY MADURA, CON EXCELENTES CAPACIDADES EN TÉRMINOS DE RESISTENCIA A LA INTERFERENCIA, ALCANCE DE COMUNICACIÓN Y CALIDAD DE DATOS.



Figure 7: UHF anti-interference technology, highlighting its advantages in communication distance, audio quality, penetration, and anti-interference compared to 2.4G and VHF bands.

LA MÁXIMA DISTANCIA DE TRANSMISIÓN

100M

75M

50M

25M



Figure 8: The Gochanmi TLM4-2S system offers a maximum transmission distance of 100 meters (320 feet) under ideal conditions.

7. TECHNICAL SPECIFICATIONS

7.1 System Specifications

- **Modulation Method:** $\pi/4$ -DQPSK
- **Frequency Range:** 610-786MHz (2x100 / 4x50 Channels)
- **Sampling Rate:** 48 KHz
- **Dynamic Range:** > 90dB
- **Total Harmonic Distortion (THD):** < 0.1%
- **Audio Transmission Delay:** < 3 ms
- **Signal-to-Noise Ratio (S/N):** > 96dB
- **Frequency Response:** 30-20 kHz
- **RX Sensitivity:** < -94dBm

- **Unique ID Address:** Yes

7.2 General Specifications

- **Brand:** Gochanmi
- **Model Name:** mkf-TLM4-2S-mx (Product Model: TLM4-2S)
- **Connectivity Technology:** Wireless (UHF)
- **Special Feature:** Volume Control
- **Compatible Devices:** Speaker, Amplifier, Audio Mixer
- **Color:** Black
- **Polar Pattern:** Omnidirectional
- **Product Weight:** 3.7 Kilograms
- **Power Source:** Battery (for microphones)
- **Hardware Platform:** Karaoke Machine, Television
- **Number of Channels:** 4
- **External Material:** Plastic
- **Item Dimensions (LxWxH):** 55 x 33 x 14.5 centimeters
- **UPC:** 791360192046
- **Manufacturer Part Number:** TLM4-2S

8. WARRANTY AND SUPPORT

8.1 Product Warranty

This Gochanmi product comes with a **1-month factory defect warranty** from the date of purchase. This warranty covers manufacturing defects under normal use. It does not cover damage caused by misuse, accidents, unauthorized modifications, or normal wear and tear.

Please retain your proof of purchase for warranty claims.

8.2 Customer Support

For any questions, technical assistance, or warranty claims, please contact your retailer or the Gochanmi customer support directly. Refer to your purchase documentation for specific contact information.

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