

Donner EC757+EC775X7

Donner DMX512 Wireless DMX System User Manual

Model: EC757+EC775X7

1. OVERVIEW

The Donner DMX512 Wireless DMX System provides a reliable and efficient solution for controlling stage lighting without the need for extensive cabling. This system includes one DMX512 wireless transmitter and seven DMX512 wireless receivers, designed for seamless integration with DMX-compatible lighting fixtures. It operates on a 2.4G wireless frequency, offering high anti-jamming capabilities and automatic frequency hopping across 126 channels to ensure stable data transmission over distances up to 500 meters (visible distance).

The system simplifies setup for various applications, including stage, disco, party, and bar lighting, by eliminating the complexities of wired DMX connections. Each unit features tricolor LED indicators for easy identification of ID codes and operational status, allowing users to establish up to seven individual wireless networks without interference.



Image: The Donner DMX512 Wireless DMX System components shown in a professional stage lighting setup.

2. PACKAGE CONTENTS

- 1 x DMX512 Wireless Transmitter
- 7 x DMX512 Wireless Receivers
- 8 x Power Adapters (Note: Units require external power; no built-in battery.)

3. KEY FEATURES

- **Wireless DMX512 Protocol:** Transmits standard DMX512 protocol data wirelessly.
- **Extended Range:** Communication distance up to 500 meters (visible distance).
- **Automatic Frequency Hopping:** 126 channels for high anti-jamming ability and reliable operation.
- **Multiple ID Codes:** 7 settable ID codes allow for up to 7 individual wireless networks without interference.
- **Tricolor LED Indicators:** Visual feedback for ID code and connection status.
- **Plug-and-Play:** Simple setup and operation.
- **No Latency:** Ensures real-time data transmission without delay.

4. SETUP

4.1 Component Identification

The system consists of a transmitter and multiple receivers. The transmitter sends DMX signals from your controller, and the receivers distribute them to your DMX-compatible lighting fixtures.

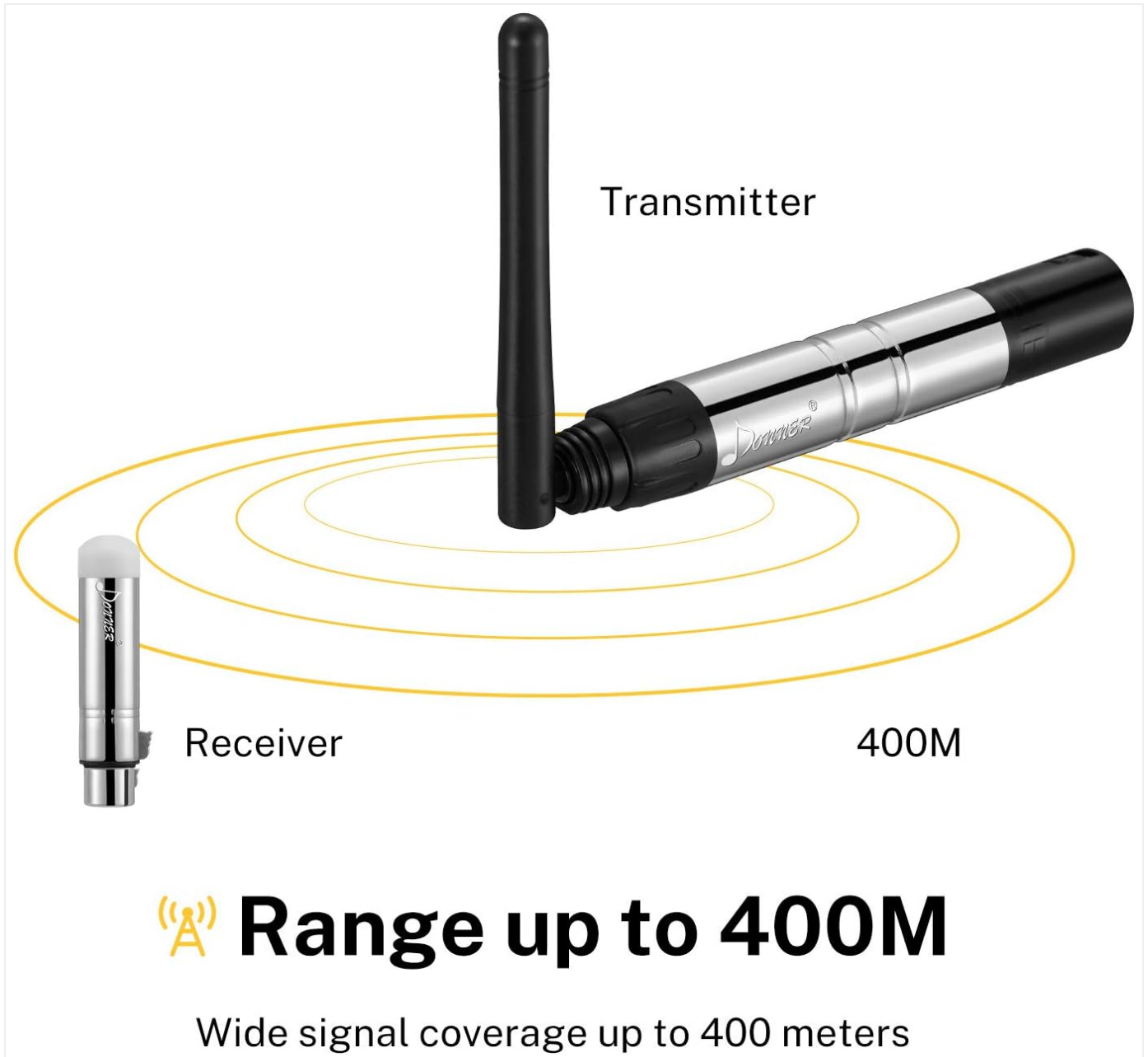


Image: A close-up view of the DMX512 wireless transmitter (with antenna) and receiver units.

4.2 Connection

1. Connect the DMX512 Wireless Transmitter to the DMX output of your DMX controller.
2. Connect each DMX512 Wireless Receiver to the DMX input of your DMX-compatible lighting fixtures.
3. Plug the provided power adapters into each transmitter and receiver unit, then connect them to a power source.



Image: An illustration demonstrating the easy wireless connection from a DMX controller to multiple lighting fixtures via the Donner DMX system.

4.3 Pairing (ID Code Matching)

The transmitter and receivers must be set to the same ID code to communicate. The units use tricolor LED indicators to display the selected ID code.

1. Press the button on the transmitter to cycle through the 7 available ID codes. Observe the color of the LED indicator.
2. For each receiver, press its button until the LED indicator matches the color of the transmitter's LED.
3. Once the colors match, the transmitter and receiver are paired. Repeat for all receivers.

Quick Matching

The same color is a successful matching

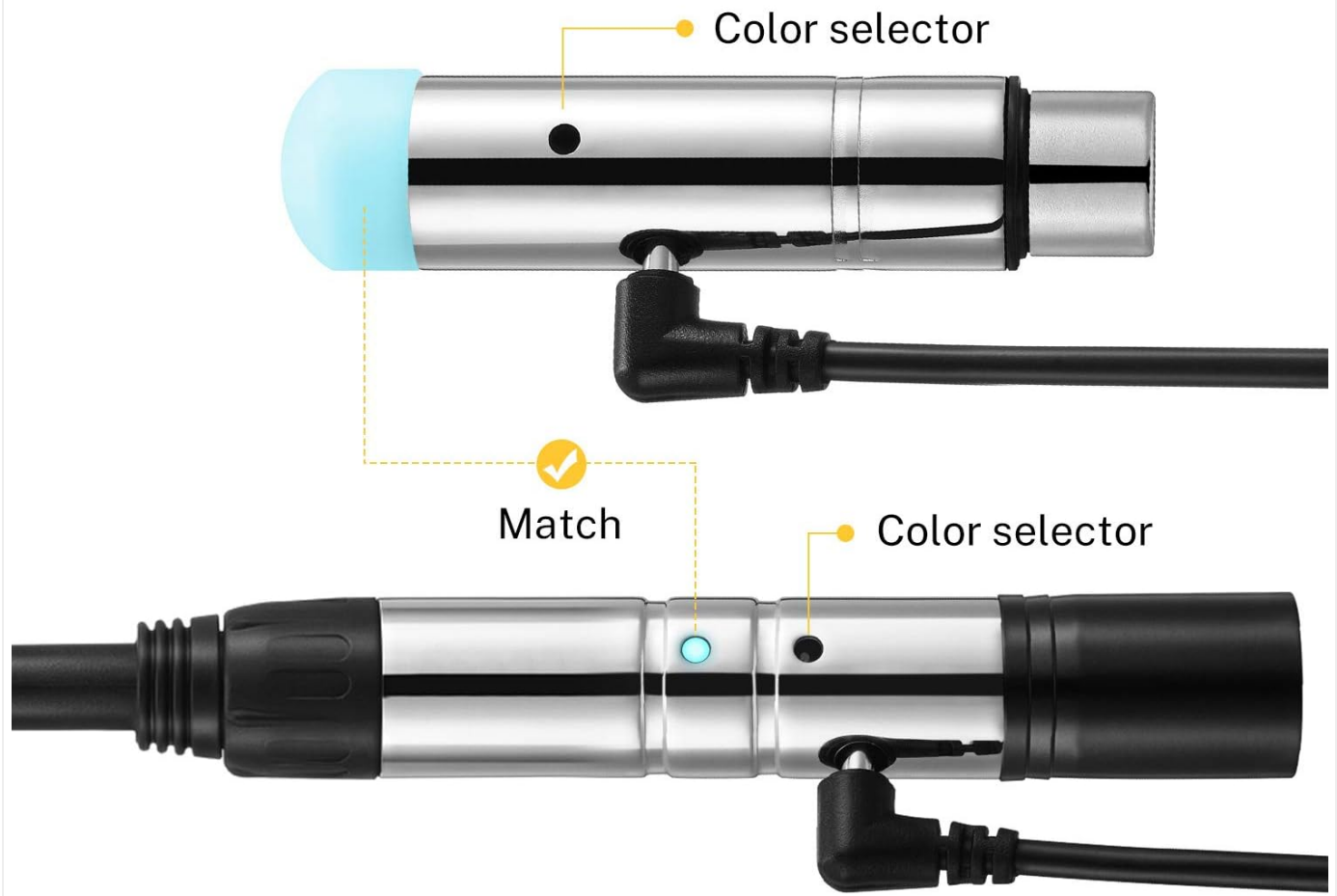


Image: A visual guide illustrating how to match the color indicators on the transmitter and receiver for successful pairing.

4.4 Powering On

After connecting and pairing, ensure all units are powered on. The LED indicators will show a solid color (matching the selected ID) when a stable connection is established.

5. OPERATION

5.1 DMX Channel Selection

The system supports 7 groups of ID codes, each represented by a different LED color. This allows for multiple independent DMX universes to operate in the same area without interference. Ensure your DMX controller and all associated lighting fixtures are configured to the correct DMX channels within the selected wireless ID group.

5.2 Signal Transmission

The transmitter continuously broadcasts DMX signals to all paired receivers. The 2.4G frequency hopping technology automatically selects the clearest channel, minimizing interference and ensuring a stable connection. There is no noticeable time delay during data transmission, providing real-time control of your lighting.



Image: An illustration depicting the wireless signal range of the Donner DMX system, extending up to 400 meters.

5.3 Multiple Receiver Setup

One DMX512 wireless transmitter can control multiple DMX512 wireless receivers simultaneously, as long as they are all set to the same ID code. This allows for flexible and scalable lighting setups.

6. MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the units. Do not use harsh chemicals or abrasive cleaners.
- **Storage:** Store the units in a cool, dry place away from direct sunlight and extreme temperatures when not in use.
- **Handling:** Avoid dropping or subjecting the units to strong impacts, as this can damage internal components.

7. TROUBLESHOOTING

- **No Signal/Lights Not Responding:**
 - Ensure the transmitter and all receivers are powered on.
 - Verify that the transmitter and all receivers are set to the same ID code (matching LED color).
 - Check all DMX and power cable connections.

- Confirm that your lighting fixtures are DMX512 compatible and correctly addressed.
- Reduce the distance between the transmitter and receivers, or clear any obstructions.

• **Intermittent Signal/Lag:**

- This can sometimes be resolved by power cycling the transmitter and receivers.
- Ensure no other 2.4G wireless devices are causing significant interference nearby.
- Check for any physical obstructions that might be blocking the signal path.

• **LED Indicator Not Lighting Up:**

- Verify the power adapter is securely connected and receiving power.
- Try a different power outlet or adapter if available.

8. SPECIFICATIONS



Image: Detailed dimensions of the Donner DMX512 Wireless DMX Transmitter and Receiver units.

Feature	Specification
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Feature	Specification
Model Number	EC757+EC775X7
Color	Silver
Material	Plastic, Metal
Power Source	External Power Adapter (No built-in battery)
Voltage	5 Volts
Item Weight	7.04 ounces (total for 8 units)
Product Dimensions (Transmitter)	4.72"L x 1.18"W x 3.5"H (approx. with antenna)
Product Dimensions (Receiver)	3.1"L x 0.9"W (approx.)
Wireless Frequency	2.4G ISM
Channels	126 (automatic frequency hopping)
ID Codes	7 Groups (color-coded)
Communication Distance	Up to 500 meters (visible distance)
Compatibility	DMX512 Protocol

9. IMPORTANT NOTES

- This system only supports devices marked with the DMX512 protocol.
- The units do not have built-in batteries and require a power adapter for operation.
- For optimal performance, ensure a clear line of sight between the transmitter and receivers.

10. WARRANTY AND SUPPORT

For detailed warranty information, product registration, and technical support, please refer to the official Donner website or the documentation included with your purchase. You may also contact Donner customer service directly for assistance.

