



# DMX-WIT

## 2.4GHz Wireless DMX512 Transmitter

Compact Inline Wireless DMX Transmitter for Cable-Free Lighting Control

### USER MANUAL

## 1. Technical Specifications

<b>DMX Connector</b>	3-pin male XLR
<b>Frequency Band</b>	2.4GHz ISM Band
<b>RF Channels</b>	126 (automatic frequency-hopping)
<b>Communication Distance</b>	Up to 700m (line of sight)
<b>Receiver Sensitivity</b>	-106 dBm
<b>LED Indicator</b>	Single tri-colour status LED
<b>Operating Temperature</b>	-20°C to +45°C
<b>Humidity</b>	10% – 90% RH (non-condensing)

## 2. Product Overview

The DMX-WIT is a compact plug-in 2.4GHz wireless DMX512 transmitter. It connects directly to the DMX output of your lighting controller via its 3-pin XLR connector and immediately begins broadcasting the DMX512 signal wirelessly — requiring no configuration. One or more paired DMX-WIR receivers can lock onto the signal and output standard wired DMX512 to connected fixtures, eliminating the need for signal cables between your controller and your rig.

## 2.2 Controls & Indicators

Component	Description
<b>DMX Input (XLR)</b>	3-pin male XLR connector. Plug directly into the DMX output of your controller.
<b>2.4GHz Antenna</b>	Fixed external antenna. Broadcasts the DMX512 signal wirelessly across up to 700m.
<b>Status LED</b>	Single LED indicator. Flashes red when actively transmitting DMX data.
<b>Tri-Colour LED</b>	Displays the current ID group on power-up, and indicates operating status during use. See Sections 3.2 and 3.3 for reference.

### 3. Operating Instructions

#### 3.1 Setting the ID Group

The DMX-WIR and its paired DMX-WIT transmitter must be set to the same ID group before they can communicate. There are 7 available groups, allowing up to 7 independent wireless networks to operate simultaneously in the same location without interference.

1. Plug the DMX-WIT into the DMX output of your controller and power on.
2. Press the KEY button once to enter ID-setting mode.
3. Press the KEY button again to increment the ID value by 1. Repeat until the desired ID is selected.
4. Set the same ID on all paired DMX-WIR receivers (refer to the DMX-WIR user manual).

**Note:** If running multiple independent wireless networks in the same venue, assign each DMX-WIT/DMX-WIR pair a unique ID group to prevent cross-talk.

#### 3.2 ID Group & LED Colour Reference

ID Group	LED Colour	LED Colour Mix
1	Red	Red
2	Green	Green
3	Yellow	Red + Green
4	Blue	Blue
5	Purple	Red + Blue
6	Cyan	Green + Blue
7	White	Red + Green + Blue

### 3.3 LED Status Indicators

LED Behaviour	Status
Constant (solid) — any colour	Unit powered on. No DMX input signal detected or no wireless signal present.
Red flashing	Transmitting — DMX signal is being received and broadcast wirelessly (applicable when used as a transmitter).
Green flashing	Receiving — a wireless DMX signal is being received and output to the connected fixture.

### 3.3 Establishing Communication

1. Plug the DMX-WIT into the DMX output port of your lighting controller.
2. Set the desired ID group on the DMX-WIT using the KEY button (see Section 3.1).
3. Set the same ID group on each paired DMX-WIR receiver.
4. Power on your controller. The DMX-WIT will begin broadcasting as soon as a DMX512 signal is detected — the status LED will flash red.
5. Each DMX-WIR will scan for and lock onto the DMX-WIT's signal. Once locked, the receiver's green LED will flash and it will output standard wired DMX512 to the connected fixture.
6. Communication is now established. There is no restriction on the number of DMX-WIR receivers that can be paired to a single DMX-WIT within range.

**Note:** The DMX-WIT automatically frequency-hops across 126 channels within the 2.4GHz ISM band, selecting the clearest available channel at all times to minimise interference.

## 4. Safety & Operational Notes

### 4.1 Important Notices

- There are no user-serviceable parts inside this unit. Do not attempt repairs yourself
- If the unit requires service, contact your nearest authorised dealer.
- This unit is intended for indoor use only.
- After unpacking, inspect the unit for any damage incurred during shipping. If in doubt, do not use it — contact your authorised dealer.
- Keep all packaging materials (plastic bags, foam, etc.) out of reach of children.
- If serious operational issues arise, stop use immediately and contact your dealer.
- Do not disassemble or modify this unit in any way.
- The unit must not be covered or obstructed. Keep it free of dust by cleaning periodically.

### 4.2 Safety Tips

- To reduce the risk of electric shock or fire, do not expose this unit to rain or moisture.
- Retain the original packaging in case the unit needs to be returned for service.
- Do not spill liquids on or into the unit.
- This unit is not intended for home use.
- This unit should be operated by adults only. Keep out of reach of children.
- Do not operate under the following conditions:
  - Environments with excessive humidity
  - Environments subject to excessive vibration or physical shock
  - Temperatures above 45°C (113°F) or below -20°C (-4°F)