

LEDJ327 Mini Box G3 DMX Transmitter and Transceiver



LEDJ327 Mini Box G3 DMX Transmitter and Transceiver User Manual

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LEDJ327 Mini Box G3 DMX Transmitter and Transceiver



Product Overview & Technical Specifications

Wireless W-DMX G3 compatible transceiver, allowing transmit or receive functions from a single unit. The compact metal housing features 5-Pin DMX inputs and outputs along with Seetronic PowerTwist inputs and outputs.

Specifications

- **Power consumption:** 2W
- **Power supply:** 100~240V 50/60Hz
- **Fuse:** T1.25A 250V
- **Dimensions (H x W x D):** 50 x 132 x 103mm
- **Weight:** 0.65kg
- **Order code:** LEDJ327

Operating Instructions

Transmitter Mode:

1. Turn off power and unplug DMX input cable.
2. Press and hold the function button, turn on the power until the status LED turns white, then release the function button.
3. Press the function button to switch the status LED to blue.
4. Press and hold the function button until the status LED turns white, then release the function button.
5. After initialization is complete, restart the power.

Receiver Mode:

1. Turn off power and unplug DMX input cable.
2. Press and hold the function button, turn on the power until the status LED turns white, then release the function button.
3. Press the function button to switch the status LED to green.
4. Press and hold the function button until the status LED turns white, then release the function button.
5. After initialization is complete, restart the power.

Disconnecting Receivers from a DMX Universe/Transmitter:

Press the function button of the transmitter for about 3 seconds until the status LED turns red. The status LED on the receivers should turn white, indicating disconnection. After a few moments, the status LED on the transmitter turns blue again. You can reconnect the receivers by pushing the function button on the transmitter, and the status LED on the receivers should turn green.

FAQ

- Q: What should I do if there is a power outage while using the Mini Box G3?

A: In case of a power outage, make sure to follow the proper shutdown procedure for your equipment. When power is restored, restart the Mini Box G3 following the specified operating instructions.

WARNING

FOR YOUR OWN SAFETY, PLEASE READ THIS USER MANUAL CAREFULLY BEFORE YOUR INITIAL START-UP!

- Before your initial start-up, please make sure that there is no damage caused during transportation.
- Should there be any damage, consult your dealer and do not use the equipment.
- To maintain the equipment in good working condition and to ensure safe operation, the user must follow the safety instructions and warning notes written in this manual.
- Please note that damages caused by user modifications to this equipment are not subject to warranty.

CAUTION!

KEEP THIS EQUIPMENT AWAY FROM RAIN, MOISTURE AND LIQUIDS

CAUTION!

TAKE CARE USING THIS EQUIPMENT!
HIGH VOLTAGE RISK OF ELECTRIC SHOCK!!

IMPORTANT:

The manufacturer will not accept liability for any resulting damages caused by the non-observance of this manual or any unauthorised modification to the equipment

- Never let the power cable come into contact with other cables. Handle the power cable and all mains voltage connections with particular caution!
- Never remove warning or informative labels from the unit.
- Do not open the equipment and do not modify the unit.
- Do not connect this equipment to a dimmer pack.
- Do not switch the equipment on and off in short intervals, as this will reduce the system's life.
- Only use the equipment indoors.

- Do not expose to flammable sources, liquids or gases.
- Always disconnect the power from the mains when equipment is not in use or before cleaning! Only handle the power-cable by the plug. Never pull out the plug by pulling the power-cable.
- Make sure that the available mains supply voltage is between 100~240V AC, 50/60Hz.
- Make sure that the power cable is never crimped or damaged. Check the equipment and the power cable periodically.
- If the equipment is dropped or damaged, disconnect the mains power supply immediately and have a qualified engineer inspect the equipment before operating again.
- If the equipment has been exposed to drastic temperature fluctuation (e.g. after transportation), do not connect power or switch it on immediately. The arising condensation might damage the equipment. Leave the equipment switched off until it has reached room temperature.
- If your product fails to function correctly, stop use immediately. Pack the unit securely (preferably in the original packing material), and return it to your Prolight dealer for service.
- Only use fuses of the same type and rating.
- Repairs, servicing and power connections must only be carried out by a qualified technician. **THIS UNIT CONTAINS NO USER-SERVICEABLE PARTS.**
- This fixture is for professional use only – it is not designed for or suitable for household use. The product must be installed by a qualified technician by local territory regulations. The safety of the installation is the responsibility of the installer. The fixture presents risks of severe injury or death due to fire hazards, electric shock and falls.
- **WARRANTY:** One year from date of purchase

OPERATING DETERMINATIONS

- If this equipment is operated in any other way, than those described in this manual, the product may suffer damage and the warranty becomes void. Incorrect operation may lead to danger e.g: short-circuit, burns and electric shocks etc.
- Do not endanger your own safety and the safety of others!
- Incorrect installation or use can cause serious damage to people and/or property

Product overview & technical specifications

Wireless W-DMX G3 compatible transceiver, allowing transmit or receive functions from a single unit. The compact metal housing features 5-Pin DMX inputs and outputs along with Seetronic PowerTwist inputs and outputs.

- Single universe DMX transmitter/receiver
- Compatible with W-DMX G3™ Protocol
- Full DMX 512 support
- Range up to 250m (line of sight)
- 2.4GHz ISM band – License-free worldwide
- M10 rigging point for clamp
- Seetronic PowerTwist input/output
- 5-Pin XLR input/output

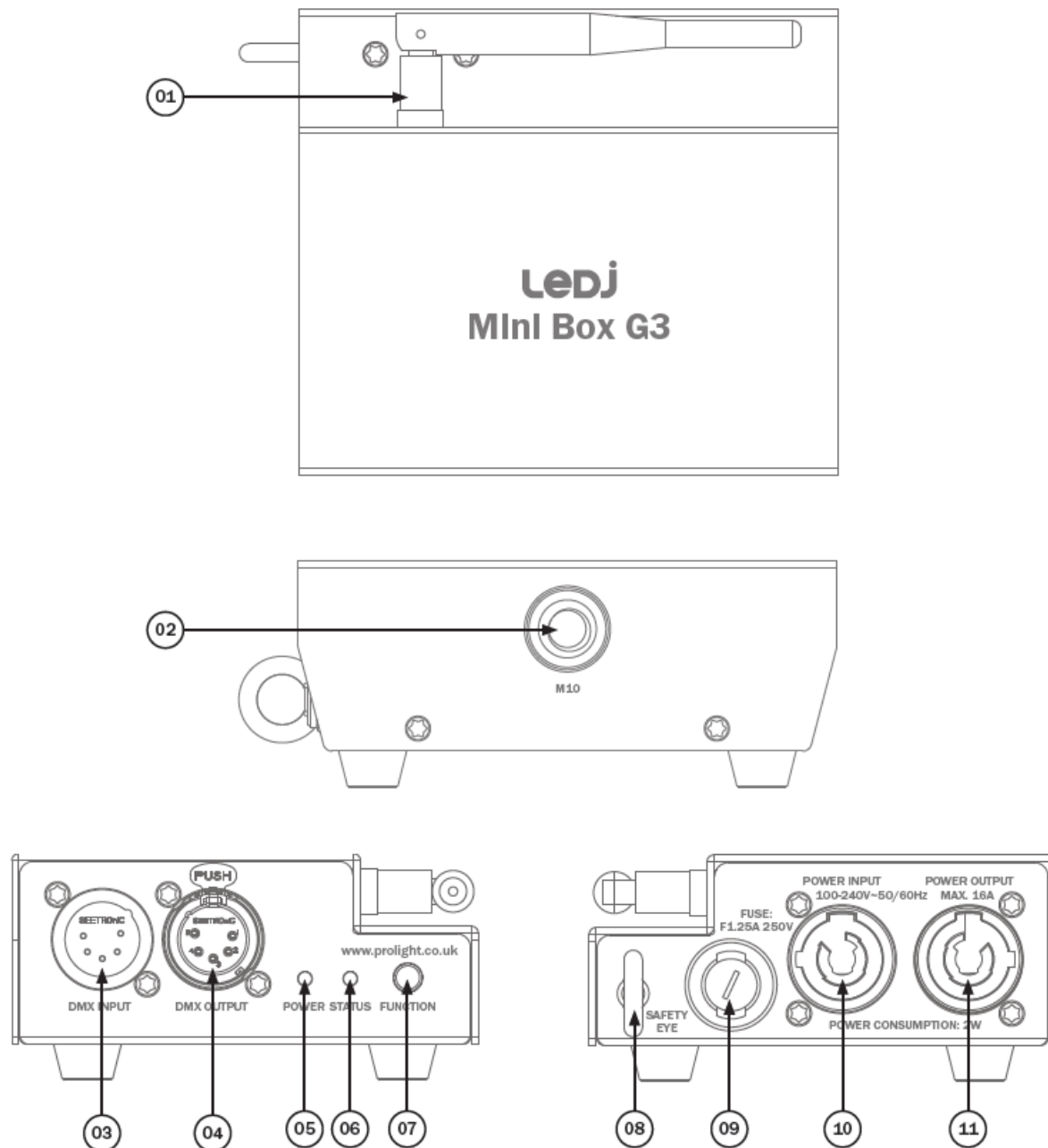
Specifications/Mini Box G3

- Power consumption 2W
- Power supply 100~240V 50/60Hz
- Fuse T1.25A 250V
- Dimensions (H x W x D) 50 x 132 x 103mm
- Weight 0.65kg
- Order code LEDJ327

DIMENSION



DESCRIPTION



1. Wireless Antenna
2. M10 rigging point
3. 5-Pin DMX input
4. 5-Pin DMX output
5. Power status indicator
6. W-DMX status indicator
7. Function button
8. Safety eye
9. Fuse
10. Seetronic PowerTwist input
11. Seetronic PowerTwist output

In the box

- 1 x controller, 1 x antenna and 1 x power cable

Operating instructions

Initialization setup:

When used for the first time, the G3 will need to be set to the required function, transmitter or receiver operation. The 'Status' LED will help you with this process. It has the following indications:

- White – The unit is in setup mode or disconnected from any transmitter.
- Blue – The unit is in transmitter mode and connected to one or more receivers.
- Blue flashing fast – The unit transmitter is connecting to receivers.
- Blue flashing slow – No DMX signal present on the transmitter.
- Green – The unit is in receiver mode and connected to a transmitter.
- Green flashing slow – The unit receives no DMX signal from the transmitter.
- Green flashing fast – The unit transmitter is connecting to receivers.
- Red flashing fast – Transmitter missing.
- A receiver can only pair with a transmitter while it is disconnected from DMX: Status LED should be White.

Transmitter mode:

1. Turn off power, and unplug the DMX input cable.
2. Press and hold the function button, turn on the power until the status LED turns white, then release the function button.
3. Press function the button, to switch the status LED to be blue.
4. Press and hold the function button, until the status LED turns white, then release the function button.
5. After initialization is complete, restart the power.

Receiver mode:

1. Turn off power, and unplug DMX input cable.
2. Press and hold the function button, turn on the power until the status LED turns white, then release the function button.
3. Press the function button, to switch status LED to be green.
4. Press and hold the function button, until the status LED turns white, then release the function button.
5. After initialization is complete, restart the power

To connect receivers to a specific transmitter:

- Make sure that the receivers to be connected are not linked to another transmitter:
- The function button LED indicator should be white.
- Press function button of transmitter, so the status LED is blue on the transmitter and green on the receivers start flashing. Wait until the flashing stops; The receivers are now linked to the transmitter.
- To check if the connection was made properly, press function button on the transmitter again, the status LED of all linked receivers will start flashing, any receivers linked to another transmitter will not flash.

Disconnecting receivers from a DMX universe/transmitter:

- Press function button of transmitter for about 3 seconds until the status LED turns red, the status LED on the receivers should turn white which means they are disconnected. After a few moments the status
- LED on the transmitter turns blue again.
- You can also reconnect the receivers simply by pushing on the function button on the transmitter.
- The status LED on the receivers should turn green.

To disconnect an individual receiver from a transmitter:

- Press function button on the receiver for about 3 seconds until the status LED turns white.
- This receiver is now disconnected from the transmitter.

Setting the DMX address:

The DMX mode enables the use of a universal DMX controller. Each fixture requires a “start address” from 1- 512. A fixture requiring one or more channels for control begins to read the data on the channel indicated by the start address. For example, a fixture that occupies or uses 7 channels of DMX and was addressed to start on DMX channel 100, would read data from channels: 100, 101, 102, 103, 104, 105 and 106. Choose a start address so that the channels used do not overlap. E.g. the next unit in the chain starts at 107.

DMX 512:

DMX (Digital Multiplex) is a universal protocol used as a form of communication between intelligent fixtures and controllers. A DMX controller sends DMX data instructions from the controller to the fixture. DMX data is sent as serial data that travels from fixture to fixture via the DATA “IN” and DATA “OUT” XLR terminals located on all DMX fixtures (most controllers only have a data “out” terminal).

DMX linking:

- DMX is a language allowing all makes and models of different manufacturers to be linked together and operate from a single controller, as long as all fixtures and the controller are DMX compliant.
- To ensure proper DMX data transmission, when using several DMX fixtures try to use the shortest cable path possible. The order in which fixtures are connected in a DMX line does not influence the DMX addressing. For example; a fixture assigned to a DMX address of 1 may be placed anywhere in a DMX line, at the beginning, at the end, or anywhere in the middle. When a fixture is assigned a DMX address of 1, the DMX controller knows to send DATA assigned to address 1 to that unit, no matter where it is located in the DMX chain.

DATA cable (DMX cable) requirements (for DMX operation):

- This fixture can be controlled via DMX-512 protocol. The DMX address is set on the back of the unit.
- Your unit requires either a standard 3-pin or 5-pin XLR connector for data input/output, please check the fixtures specifications as to which your unit accepts



Further DMX cables can be purchased from all good sound and lighting suppliers or Prolight Concepts dealers.

Please quote:

- 3-Pin: CABL10 – 2m CABL11 – 5m CABL12 – 10m
- 5-Pin: CABL185 – 2m CABL187 – 5m CABL188 – 10m

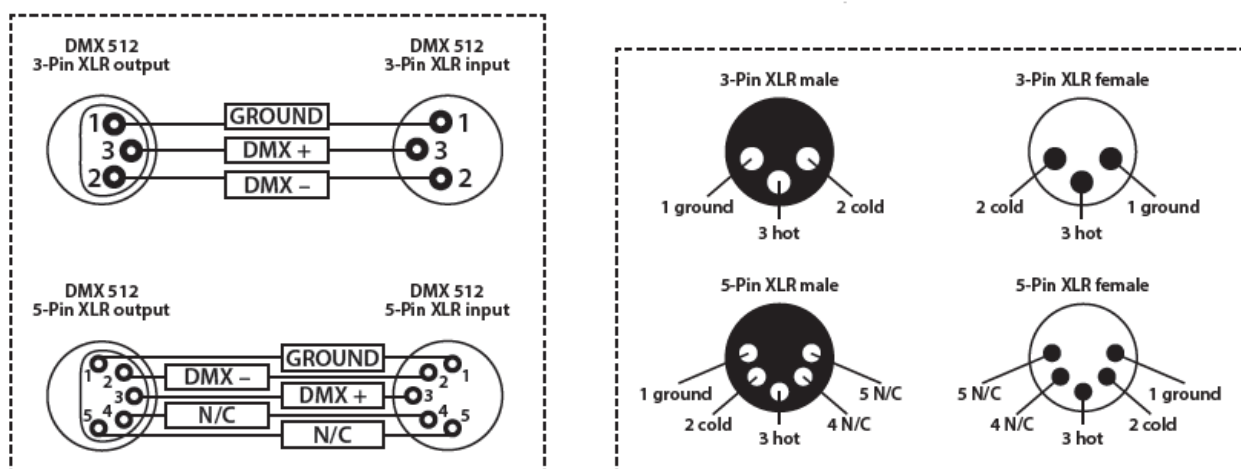
Also, remember that the DMX cable must be daisy-chained and cannot be split.

Pin Configuration	
3-Pin	5-Pin
Pin 1 – Ground	
Pin 2 – Negative	
Pin 3 – Positive	
–	Pin 4 – N/C
–	Pin 5 – N/C

Notice:

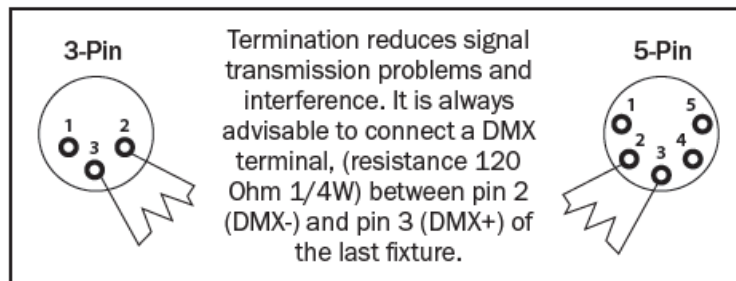
Be sure to follow the diagrams below when making your cables.

Do not connect the cable shield conductor to the ground lug or allow the shield conductor to come in contact with the XLR outer casing. Grounding the shield could cause a short circuit and erratic behaviour.



Line termination:

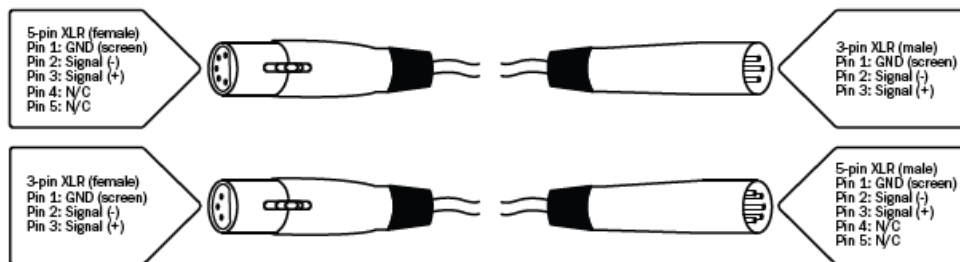
When longer runs of cable are used, you may need to use a terminator on the last unit to avoid erratic behaviour. Using a cable terminator will decrease the possibility of erratic behaviour.



- (3-pin – Order ref: CABL90, 5-pin – Order ref: CABL89)

5-pin XLR DMX connectors:

Some manufacturers use 5-pin XLR connectors for data transmission in place of 3-pin. 5-pin XLR fixtures may be implemented in a 3-pin XLR DMX line. When inserting standard 5-pin XLR connectors in to a 3-pin line a cable adaptor must be used. The diagram below details the correct cable conversion.



Correct Disposal of this Product

(Waste Electrical & Electronic Equipment)

(Applicable in the European Union and other European countries with separate collection systems)

- This marking shown on the product or its literature indicates that it should not be disposed of with other household wastes at the end of its working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate this from other types of wastes and recycle it responsibly to promote the sustainable reuse of material resources.
- Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take this item for environmentally safe recycling.
- Business users should contact their supplier and check the terms and conditions of the purchase contract. This product should not be mixed with other commercial wastes for disposal.

www.prolight.co.uk

Documents / Resources



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LEDJ327, LEDJ327 Mini Box G3 DMX Transmitter and Transceiver, Mini Box G3 DMX Transmitt
er and Transceiver, DMX Transmitter and Transceiver, Transmitter and Transceiver, Transceiver

References

- [User Manual](#)

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