

LEDJ

EasiLED 4 DMX Controller User Manual



Order code: LEDJ323

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, it is necessary for the user to 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.



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 same type and rating.
- Repairs, servicing and power connection 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 in accordance with 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!

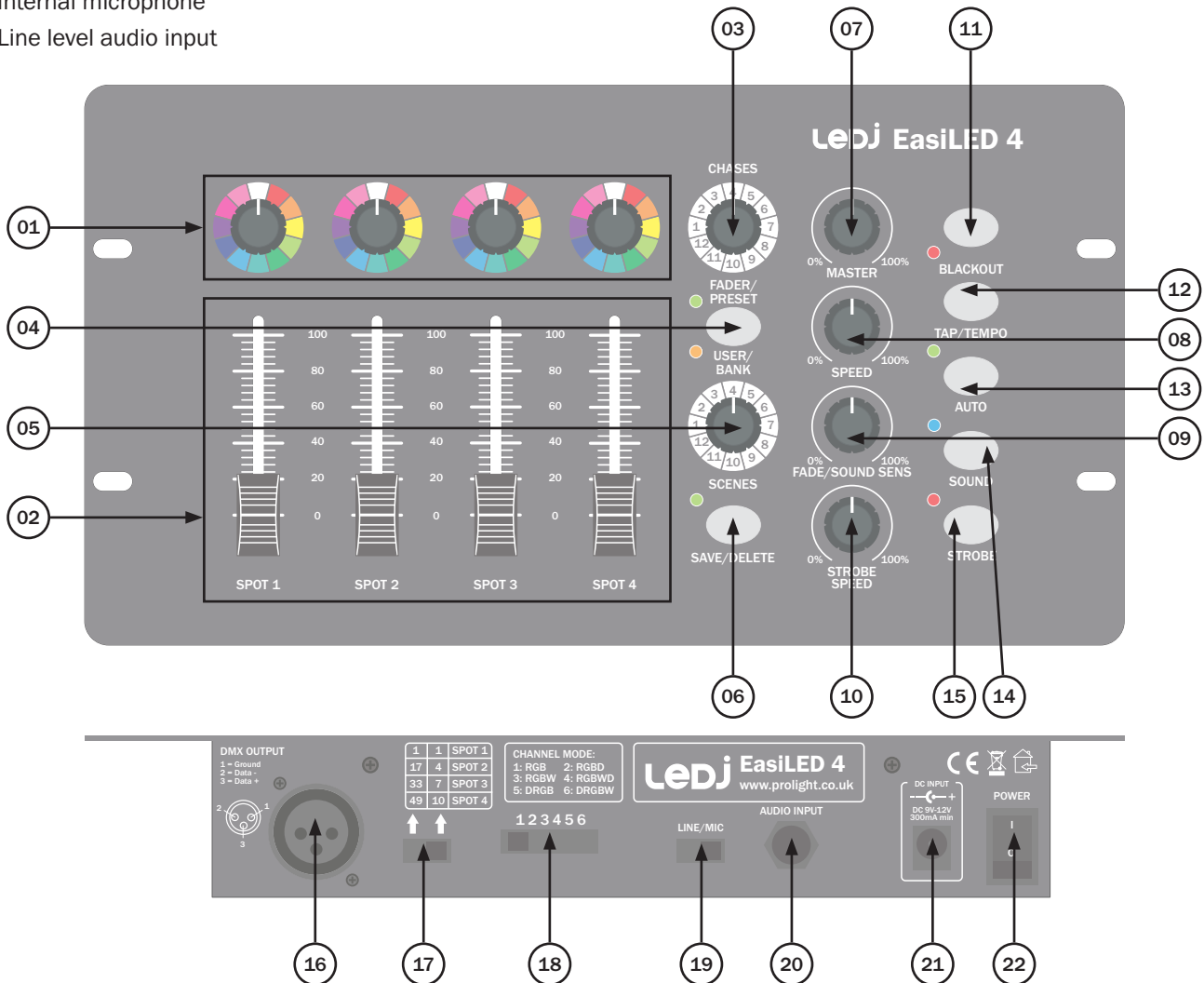
Incorrect installation or use can cause serious damage to people and/or property.

EasiLED 4 DMX Controller

The EasiLED 4 from LEDJ is a universal DMX controller designed for controlling multi-colour LED fixtures. Suitable for use with RGB or RGBW products, with or without dimmer channels the controller may be used for LED par cans, panels or even LED strip lights. Designed to operate four fixture groups, the controller has an intuitive layout with a rotary colour selector and dimmer fader for each of the four fixture groups.

- Can control up to four fixtures from RGB through to RGBW+Dimmer
- Master dimmer function
- RGBW colour select on rotary control
- Strobe function with adjustable speed (1-20Hz)
- Power on to last used function
- Internal microphone
- Line level audio input

Specifications	EasiLED 4
Power supply	DC 9V-12V, 300mA min (by adaptor included)
Dimensions	60 x 260 x 140mm
Weight	1.2kg
Order code	LEDJ323



- 01 - Rotary colour selectors
- 02 - Fixture dimmer controls
- 03 - Chase selector (12 settings)
- 04 - Preset/User bank selector
- 05 - Scene selector (12 settings)
- 06 - Save/Delete button
- 07 - Master dimmer
- 08 - Speed control
- 09 - Fade time control

- 10 - Strobe speed control
- 11 - Blackout button
- 12 - TAP/Tempo button
- 13 - Auto mode button
- 14 - Sound mode button
- 15 - Strobe button
- 16 - 3-Pin DMX output
- 17 - DMX start address
- 18 - DMX channel selection

- 19 - Internal microphone/ external audio select
- 20 - Audio Input
- 21 - DC power input (centre +ve)
- 22 - Power on/off switch

In the box: **1 x controller,**
1 x power adaptor
& 1 x user manual

Initial setup:

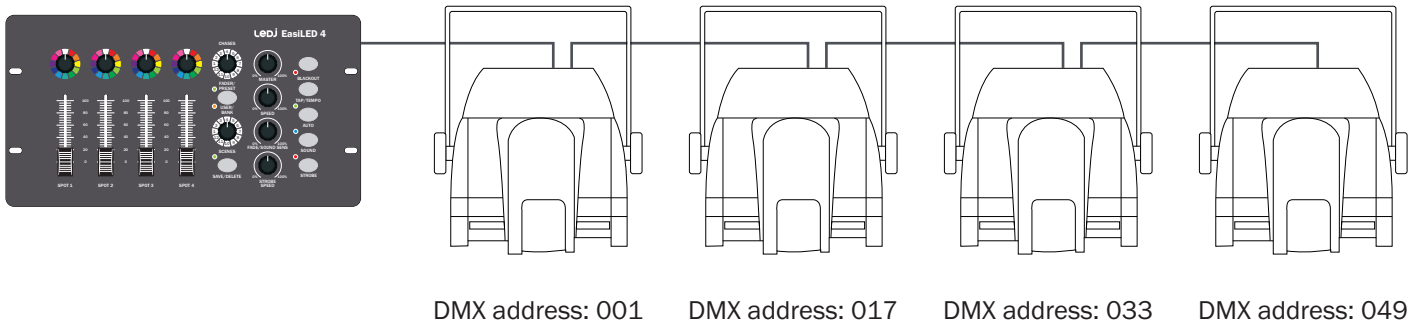
Connect the supplied mains power adaptor to the DC power input on the controller and then to a suitable mains voltage supply (100-240VAC~50/60Hz). Connect the LED fixtures using standard 3-pin DMX data cables. Follow the setup procedure for the controller first before powering on the LED fixtures. The controller can be used to control 3 or 4 colour LED products each with or without a dimmer channel.

DMX channel assignment:

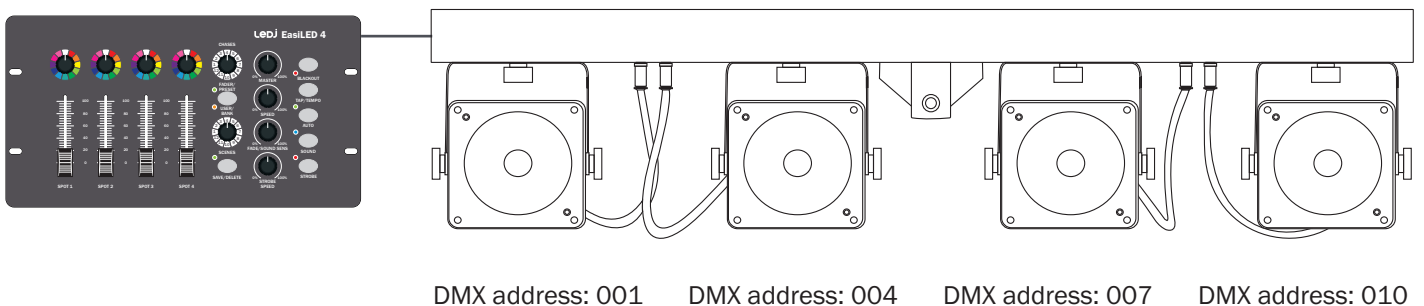
The controller has preset DMX start addresses for each of the four fixtures. Please set your fixture to the following DMX addresses. Please note: If two or more fixtures are set to the same DMX address they will receive the same DMX commands. The controller can be setup to address four individual 3 channel RGB fixtures addressed sequentially (001, 004, 007 and 010) or if the fixtures feature RGBW or RGB with a dimmer channel they can be addressed with sufficient spacing between the fixtures to account for the extra channels (001, 017, 033 and 049).

Fixture Number Group	DMX Start Address - LED Par Cans/Panels	DMX Start Address - Multi LED Bars (3CH RGB only)
1	001	001
2	017	004
3	033	007
4	049	010

Example of 4 RGBW par cans:



Example of 4 RGB pars on a bar:



Operation:

The EasiLED 4 has three main modes of operation: Manual, Auto or Sound control. Use the Auto, Music or Fader/Presets & User/Bank buttons to switch between each user mode. The LED indicators will illuminate next to each of the buttons to confirm the user mode selected. The Manual mode is indicated by the fader/preset green LED.

After power on, the controller will restart in the last used mode assuming the last used mode was active for 10 seconds or more.

Please note: In all modes, the blackout button may be pressed to turn off the light output. The red LED next to blackout button will flash to indicate blackout is active. Blackout will operate regardless of the fixture/group selection.

Manual mode:

Manual Mode can be used for selection of colours either for ad hoc scenes or for creating scenes before recording into saved scenes or chases. Switch the controller to Manual Mode (indicated by Green LED by the Fader/Presets button) and follow the steps listed below:

- Set the colours of the fixtures/groups using the rotary selectors
- Adjust the intensity (brightness) of the fixtures/groups using Faders 1-4 ensuring the master dimmer is also active.
- Turn the fade time control anti-clockwise to "0" for instant colour changes or rotate clockwise to increase the fade time between colours.

Saving scenes:

After setting the scene as per the Manual Mode instructions you can save the scene and at the same time save the scene as a single step in the selected chase (1 to 12). Select the Chase and Scene then press the "Save/Delete" button, the green LED will flash quickly three times to confirm.

Deleting scenes:

After setting the scene as per the Manual Mode. Select the Chase and Scene then press and hold the "Save/Delete" button, all of the LEDs on the controller will flash to confirm.

Scene playback:

Press the Fader/Presets button to illuminate the orange LED confirming the controller is now in User/Bank mode. Select the chase and then scene required. Scene playback may be manually advanced by selecting scenes individually using the rotary Scene selector, or they may be advanced by either Sound or Auto modes.

01) Rotary colour selectors:

Twelve, preset colours selectable using simple rotary controls when the controller is used in Manual Mode.

02) Fixture dimmer controls:

Four dimmer faders, each for controlling the intensity for a fixture/group.

03) Chase selector (12 settings):

The controller can store up to 12 chases, each chase may be built using up to 12 scenes per chase. Use the rotary selector to choose the required chase.

04) Preset/User bank selector:

Use this button to switch between Manual/Fader mode and User/Bank modes.

05) Scene selector (12 settings):

The controller can store up to 12 chases, each chase may be built using up to 12 scenes per chase. Use the rotary selector to choose the required scene after selecting the chase.

06) Save/Delete button:

When the controller is in Manual mode, a quick press will save a selected scene, confirmed by three green flashes of the LED. Press and hold to delete a selected scene, all LEDs on the controller will flash to confirm scene deletion.

07) Master dimmer:

Active in all modes, the master dimmer control can be used to adjust the intensity of all fixtures connected to the controller.

08) Speed control:

The speed control can be used to adjust the chase speed when the controller is in Auto mode. Turn clockwise to increase the chase speed.

09) Fade time control:

Active in all modes, the Fade Time control can be used to adjust fade time between all functions on the controller including manual colour selections. For instant changes the fade time must be turned fully to the left (anti-clockwise).

10) Strobe speed control:

The Strobe Speed Control can be preselected ahead of Strobe Mode activation. Turn clockwise to increase the strobe frequency.

11) Blackout button:

Press the Blackout button to activate blackout for all fixtures controlled by the EasiLED 4 controller. While activated, Blackout mode will be confirmed by a red LED flashing next to the button.

12) TAP/Tempo button:

The TAP/Tempo control allows the user to select the playback speed for chases in time. While in Auto mode, press the TAP/Tempo button a minimum of three times to set the desired playback speed.

13) Auto mode button:

Select User/Bank mode then press the Auto button to activate Auto mode for scene/chase playback. Playback speed in Auto may be controlled by either the Tap/Temp or the Speed control.

14) Sound mode button:

Select User/Bank mode then press the Sound button to activate Sound mode for scene/chase playback. To adjust the internal microphone sensitivity, press and hold the Sound button and use the fade control.

15) Strobe button:

The Strobe function can be made active in all modes across the controller. Press the Strobe control button to activate Strobe mode, the red LED will illuminate to confirm Strobe mode is active. The control for strobe is latching and will remain active until the button is pressed a second time.

16) 3-Pin DMX output:

3-Pin XLR socket output. Pin 1 = Ground, Pin 2 = data -ve, Pin 3 = data +ve

17) DMX start address:

The controller has preset DMX start addresses for each of the four fixtures. Please set your fixture to the following DMX addresses. Please note: If two or more fixtures are set to the same DMX address they will receive the same DMX commands. The controller can be setup to address four individual 3 channel RGB fixtures addressed sequentially (001, 004, 007 and 010) or if the fixtures feature RGBW or RGB with a Dimmer channel they can be addressed with sufficient spacing between the fixtures to account for the extra channels (001, 017, 033 and 049).

18) DMX channel selection:

The controller can be used to control up to four fixtures from RGB through to RGBW+Dimmer. Slide the switch to the position suit the fixtures being used. Please note: To operate correctly, all fixtures should share the same DMX channel allocation.

19) Internal microphone/external audio select:

The controller can be triggered either via the internal microphone or from an external line level audio source.

20) Audio input:

Unbalanced 6.35mm (1/4") jack socket for line level audio input.

21) DC power input (centre +ve):

Centre positive type connection. 9-12VDC, 300mA minimum regulated type.

22) Power on/off switch:

Use this switch to power the controller on/off.

Setting the DMX address:

The DMX mode enables the use of a universal DMX controller. Each fixture requires a “start address” from 1- 511. 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 manufactures 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 and your DMX controller require a standard 3-pin XLR connector for data input/output, see image below.



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

Please quote:

CABL10 – 2m

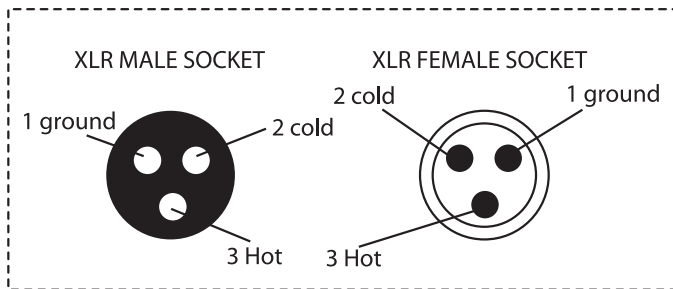
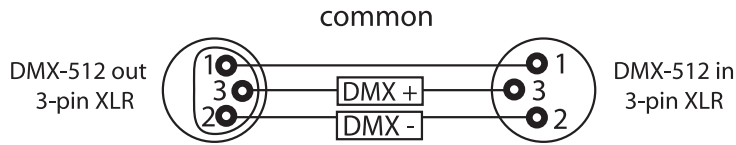
CABL11 – 5m

CABL12 – 10m

Note: DMX cable must be daisy chained and cannot be split.

Notice:

Be sure to follow the diagrams below when making your own cables. Do not connect the cables shield conductor to the ground lug or allow the shield conductor to come in contact with the XLRs outer casing. Grounding the shield could cause a short circuit and erratic behaviour.



XLR Pin Configuration
Pin 1 = Ground
Pin 2 = Negative
Pin 3 = Postive

Special note:

Line termination:

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

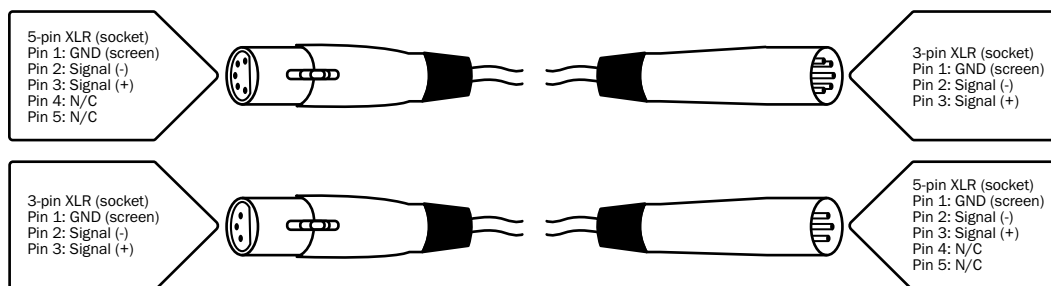
Using a cable terminator will decrease the possibilities of erratic behaviour.

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

Termination reduces signal transmission problems and interference. It is always advisable to connect a DMX terminal, (resistance 120 Ohm 1/4 W) between pin 2 (DMX-) and pin 3 (DMX+) of the last fixture.

5-pin XLR DMX connectors:

Some manufactures 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 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.



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