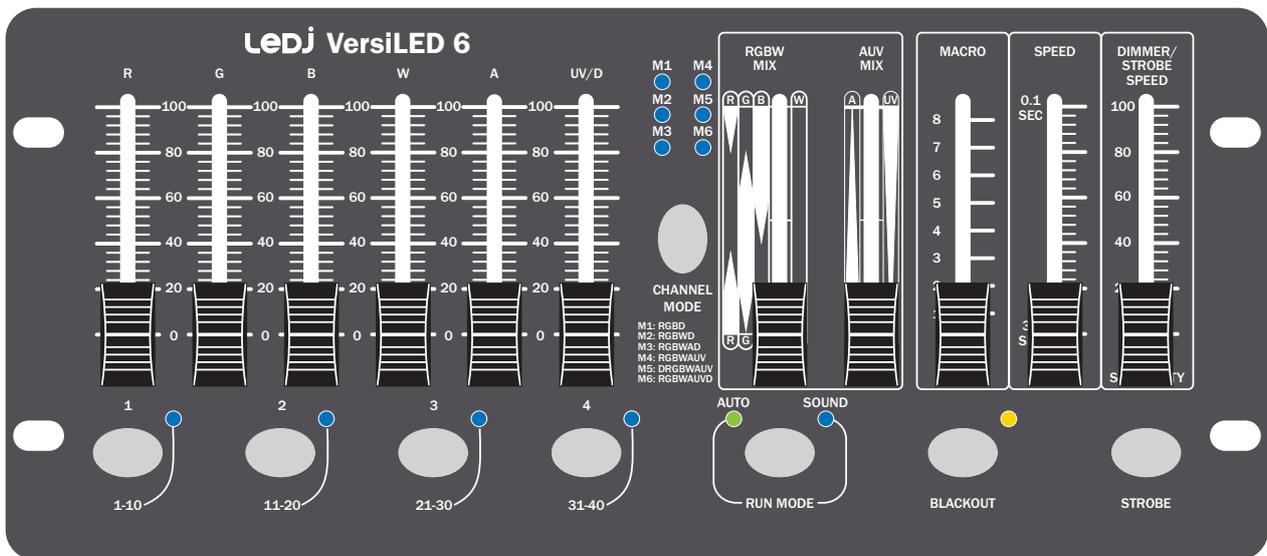


# LEDj

## VersiLED 6 DMX Controller User Manual



Order code: LEDJ322

### 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!

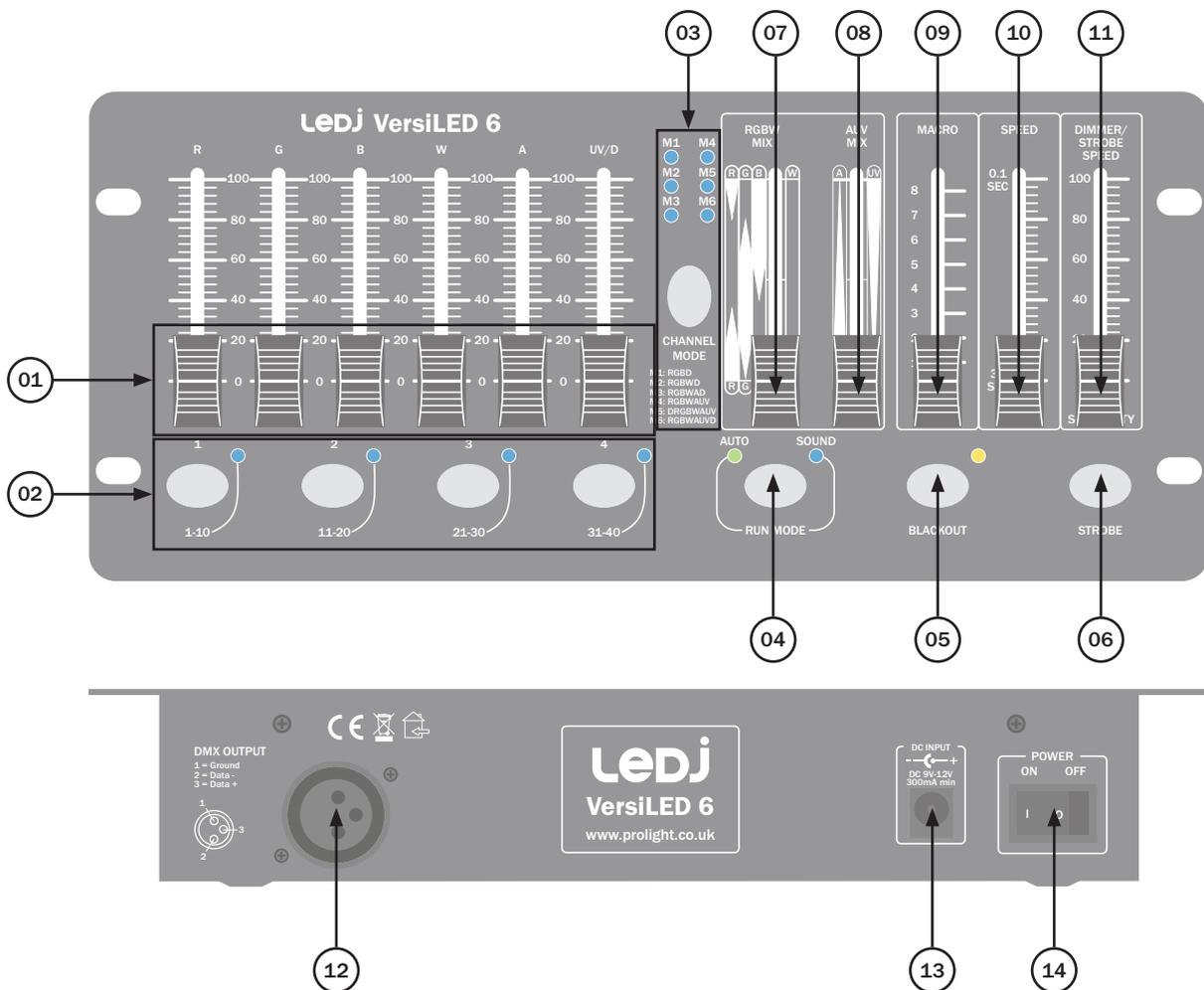
Incorrect installation or use can cause serious damage to people and/or property.

### VersiLED 6 DMX Controller

The VersiLED 6 from LEDJ is a universal DMX controller designed for controlling multi colour LED fixtures. Suitable for use with RGB, RGBW, RGBWA or RGBWAUV products, with or without dimmer channels the controller may be used for LED par cans, panels or even LED strip lights.

- Can control up to four fixtures/groups from RGB+dimmer through to RGBWA+UV, each fixture may be set individually
- Master dimmer function, even for RGBWA+UV products
- Separate RGBW and Amber/UV colour mix on fader control
- LTP control system for intuitive operation
- Strobe function with adjustable speed (1-20Hz)

Specifications	VersiLED 6
Power supply	DC 9V-12V, 300mA min (by adaptor included)
Dimensions	60 x 250 x 110mm
Weight	1kg
Order code	LEDJ322



- 01 - RGBWAUV/D channel faders
- 02 - Fixture/group buttons & LED indicators
- 03 - Channel mode selection & LED indicators
- 04 - Run mode select (auto or sound)
- 05 - Blackout button
- 06 - Strobe button
- 07 - RGBW colour mix
- 08 - Amber/UV colour mix
- 09 - Colour macro fader
- 10 - Speed control
- 11 - Strobe speed/sound sensitivity/master dimmer
- 12 - 3-Pin DMX output
- 13 - DC power input (centre +ve)
- 14 - 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).

The controller can be used to control 3, 4, 5 or 6 colour LED products each with or without a dimmer channel.

The controller is based around LTP (Last Takes Precedence) across its control surface, this means the last command executed on the controller will override the previous command. Because of this, the controller is easy to use for those who carry little knowledge of DMX controllers.

### **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.

Fixture Number Group	DMX Start Address
1	001
2	011
3	021
4	0 31

### **Master dimmer:**

The controller also has an additional Master Dimmer function. While holding down the Blackout button, use the strobe/dimmer fader to adjust the overall master intensity. This function will operate for all fixtures regardless of fixture selection. The master dimmer function will override all outputs including sound and auto modes. If you have used the master dimmer to dim your fixture(s) to zero you will have to dim them back up in order to use manual dimming/colour mixing again.

### **01) RGBWAUV/D channel faders:**

The RGBWAUV/D faders are used to create a manual colour mix. First select the fixture groups as required from the four fixture groups and then use the faders to adjust the colour and intensity as required.

### **02) Fixture/group buttons and LED indicators:**

The fixture/group buttons are used to select or deselect fixtures. Next to each button is an LED indicator, this will illuminate when the fixtures are selected.

### 03) Channel mode selection and LED indicators:

The controller can be used to control up to four fixtures/groups from RGB through to RGBWA+UV, each fixture may be set individually to suit the DMX channels of your LED fixtures from RGB+Dimmer up to and including RGBWAUV+Dimmer. Select the desired fixture/group using the fixture/group buttons, then select the channel mode. Unselect the fixture/group and then repeat the process for each of the four fixture/groups until set. Please note: When using Mode 5 and Mode 6, the dimmer channel output value will be 255, this enables you to colour mix and then use the master dimmer detailed above.

### Fader allocation VS Mode chart:

	Mode	Fader 1	Fader 2	Fader 3	Fader 4	Fader 5	Fader 6	DMX Allocation
M1	RGBD	Red	Green	Blue	Dimmer	-	-	RGB + CH4 Master Dimmer
M2	RGBWD	Red	Green	Blue	White	Dimmer	-	RGBW + CH5 Master Dimmer
M3	RGBWAD	Red	Green	Blue	White	Amber	Dimmer	RGBWA + CH6 Master Dimmer
M4	RGBWAUV	Red	Green	Blue	White	Amber	UV	RGBWAUV
M5	DRGBWAUV	Red	Green	Blue	White	Amber	UV	RGBWAUV + CH1 (fixed at 255)
M6	RGBWAUVD	Red	Green	Blue	White	Amber	UV	RGBWAUV + CH7 (fixed at 255)

### 04) Run mode select (auto or sound):

The built-in colour macro's may be triggered by either sound control or auto with speed control. Press the Run Mode button to change between sound or auto control. The LED indicator will illuminate to show the Run Mode. Use the speed and sound sensitivity faders to adjust the auto speed or sound sensitivity.

### 05) Blackout button:

The blackout control can be used for instant blackout (off) commands of the fixtures controlled by the VersiLED 6 controller. The blackout button is a global command and will control the fixtures regardless of any fixture/group selection.

Press and hold the blackout button to enable the Master Dimmer function and at the same time use the strobe speed/dimmer fader to control overall intensity of the dimmer channels. This will also function as a global command and will control the fixtures regardless of any fixture/group selection.

### 06) Strobe button:

Press and hold the Strobe button to activate a white strobe across the fixtures selected on the fixture/group. While holding the button, the strobe speed can be adjusted using the strobe speed/sound sensitivity/dimmer fader. The strobe speed is adjustable 1Hz-20Hz. Please note: If the master dimmer function has been set to zero then the strobe will not operate. Please set the master dimmer back up for the strobe to function again.

### 07) RGBW colour mix:

The RGBW colour mix fader can be used for rapid selection of static colours. Push the fader to fade from Red, through Green and Blue up to full on at the upper limit of the fader.

### **08) Amber/UV colour mix:**

The Amber/Ultra Violet colour mix fader can be used for rapid selection of static colours. Push the fader to fade from Amber through to Ultra Violet up to full on at the upper limit of the fader. The fader may be used in conjunction with the RGBW colour mix to add Amber or Ultra Violet into the RGBW mixed colours.

### **09) Colour macro fader:**

The VersiLED 6 controller has built in RGBWAUV colour macro's that can be triggered by sound with adjustable sensitivity or auto with speed control. Select the desired fixture/groups and then use the macro fader to select from one of the eight internal colour macros. The auto speed can be set using the speed fader, while the sound sensitivity can be set using the strobe speed/sound sensitivity/master dimmer fader.

Macro	Channel Value	Description
N/A	000-007	Blackout
1	008-038	RGB Fade
2	039-069	RGB Change
3	070-100	RGBW Fade
4	101-131	RGBW Change
5	132-162	Red/Green Change
6	163-193	Red/Blue Change
7	194-224	Green/Blue Change
8	225-255	RGBWAUV Change

### **10) Speed control:**

The speed control fader is used to adjust the speed of the built in colour macros.

### **11) Strobe speed/sound sensitivity/master dimmer:**

The strobe speed/sound sensitivity/master dimmer fader provides control for multiple functions on the controller.

### **12) 3-Pin DMX output:**

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

### **13) DC power input (centre +ve):**

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

### **14) 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**

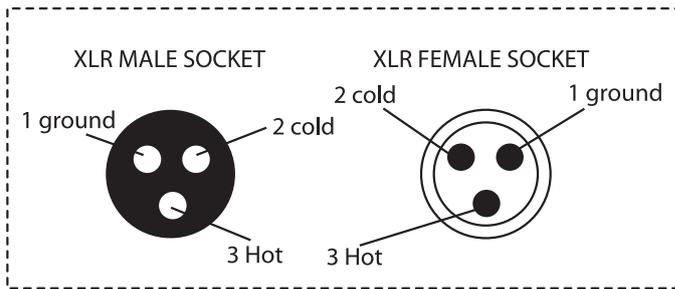
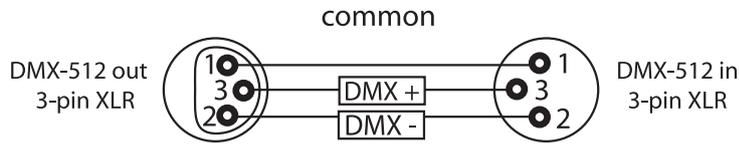
**CABL11 – 5m**

**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.

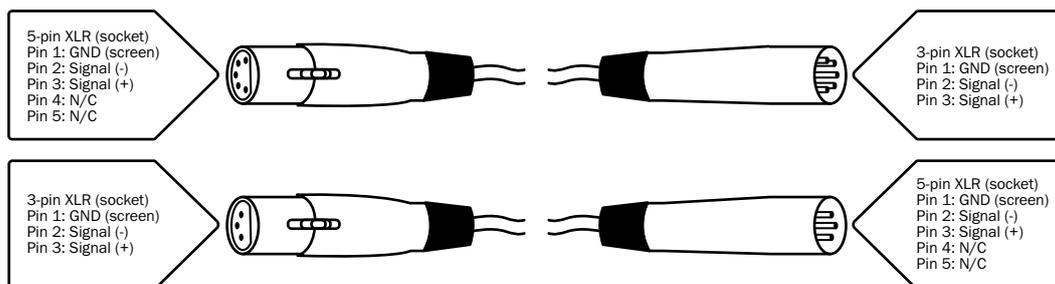
**Using a cable terminator will decrease the possibilities of erratic behaviour.**

**(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.







**LEDj**