



Portable LED Stage Lighting User Manual

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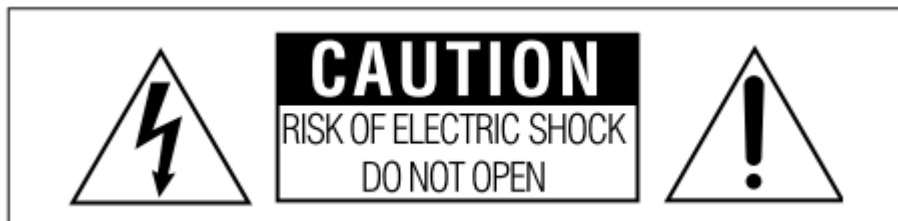
1 General Description

TheatreCom portable LED stage lighting kits offers professional quality stage lighting in a safe and easy to use format. The product is designed for temporary or permanent installations.

A TheatreCom installation consists of a mains-powered **lighting control** and up to 5 **LED flood lights**, connected by TheatreCom LED cables.

All TheatreCom products are provided with a comprehensive one year warranty. In addition, Top Hex offers a lifetime repair guarantee. In the event of a failure of the product for any reason, Top Hex commits to repair the product at a nominal cost. In the unlikely event that the product cannot be repaired, a refurbished product of similar specification will be offered at a special price.

2 Safety



To reduce the risk of electrical shock, do not remove the cover on this product. There are no user serviceable parts inside. Removing the cover invalidates the warranty.

TheatreCom portable LED stage lighting is designed for indoor use as described in this manual. Using this product for any other purpose other than that for which it was designed may cause harm and will invalidate the warranty.

If you are unsure about the safe operation of this product, contact Top Hex for advice. Contact details are provided at the end of this manual.

TheatreCom LED floodlights operate at a safe Voltage of 48V and the output from the lighting control is protected. However, it is important to inspect any cables or connectors for damage before use and to replace any faulty parts.

The LED floodlights are cooled with a fan and therefore do not pose a risk of burning. In the event of the fan failing or the lights over-heating, an over-temperature cut-out will turn the lights off.

As with all stage lighting, TheatreCom lights are bright and it is not advisable to stare directly at the LEDs. When powering up the lighting control, it is sensible to ensure the fader is at the minimum level to ensure the lights do not illuminate unexpectedly.

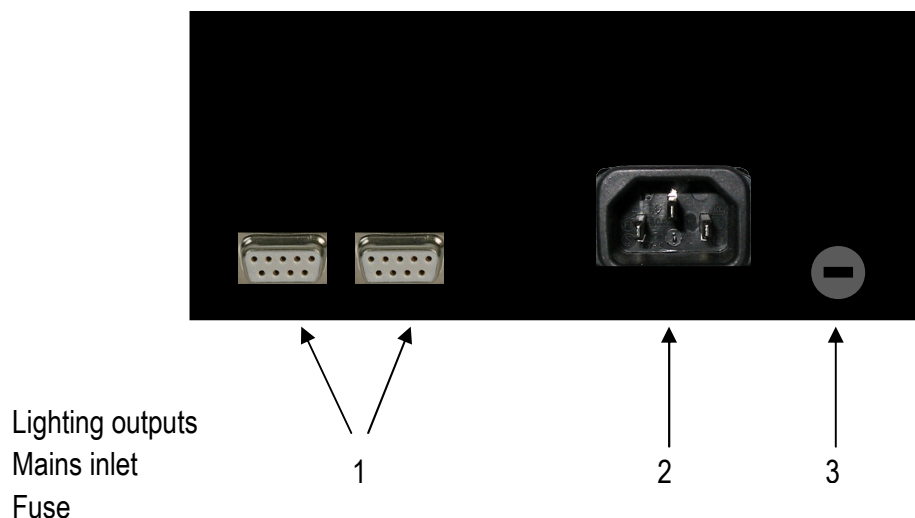
3 Unpacking

Top Hex takes great care to ensure your TheatreCom portable LED stage lighting kit reaches you in perfect condition. After unpacking, please check for any damage to the unit, retaining any packing materials should the unit need to be returned.

On receipt, please ensure that the package is complete. A list of parts supplied with each package or kit is detailed in the **Product Range** section of this manual.

4 Connections

4.1 Lighting Control



4.1.1 Lighting Outputs

Two LED lights can be connected directly to the **Lighting Control**. Further lights can be connected to these lights via the lighting outputs on the **LED Floodlight**. A maximum of 5 **LED Floodlight** can be powered from a single **Lighting Control**. The lighting outputs are identical.

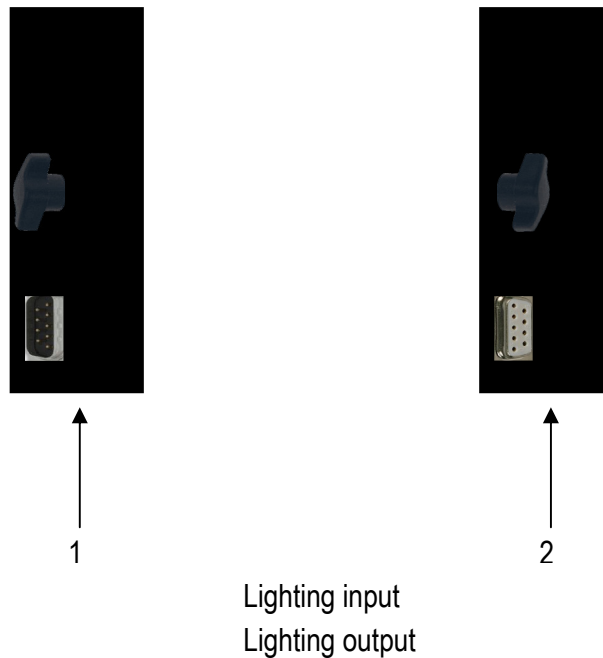
4.1.2 Mains inlet

The IEC mains inlet allows connection of the supplied mains lead fitted with a 3A fuse.

4.1.3 Fusing

The unit is also protected by a 3.15AT (slow blow) 20mm fuse which is user-replaceable.

4.2 LED Floodlight



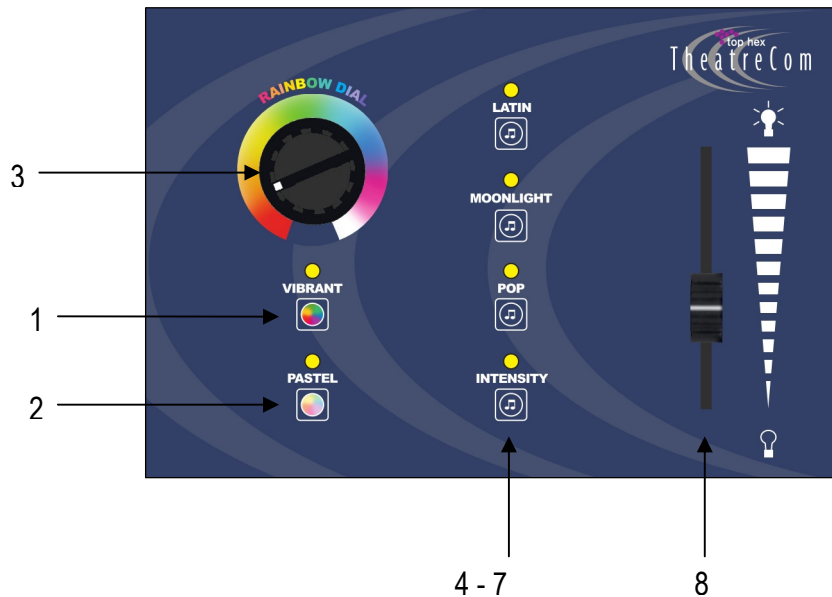
4.2.1 Lighting Input

The LED cable from the **Lighting Control** or the preceding **LED Floodlight** is connected to the lighting input.

4.2.2 Lighting Output

The lighting output is used to connect to the next **LED Floodlight** in the chain (if required). A maximum of 5 **LED Floodlights** can be connected to one **Lighting Control**.

5 Lighting Control



- Vibrant (colour mode)
- Pastel (colour mode)
- Rainbow Dial
- Latin (music mode)
- Moonlight (music mode)
- Pop (music mode)
- Intensity (sound mode)
- Fader

5.1 VIBRANT (colour mode)

Press **VIBRANT** to select the vibrant colour mode and the indicator will illuminate above the vibrant button. Use the **RAINBOW DIAL** to set the colour and the **FADER** to set the brightness. In this mode, primary colours are displayed giving vibrant reds, blues and greens.

5.2 PASTEL (colour mode)

Press PASTEL to select the pastel colour mode and the indicator will illuminate above the pastel button. Use the RAINBOW DIAL to set the colour and the FADER to set the brightness. In this mode, pastel colours are displayed which allow for more subtle lighting.

5.3 RAINBOW DIAL

The **RAINBOW DIAL** affects all lights connected the **Lighting Control**. In order to allow you to select the maximum range of colours, the **RAINBOW DIAL** has some additional colours not found in the rainbow. The colours displayed are as follows:

Red, Orange, Yellow, Green, Blue, Purple, Pink, White

As you turn the dial, the lights fade gradually between colours allowing you to select an infinite range of colours. Turning the dial fully clockwise will set the lights to a warm white which will allow you to illuminate your performance area without colour.

5.4 LATIN (music mode)

When the POP button is pressed, the indicator above the button will illuminate to indicate that the latin, music mode has been selected. A microphone is built into the **Lighting Control** which picks up music allowing the lights to respond to the beat. The lights will change colour between the colour set on the RAINBOW DIAL and 3 contrasting colours (selected automatically). In latin mode, the colour changes a maximum of once per second which works well with a latin tempo. The brightness of the lights can be adjusted using the FADER.

5.5 MOONLIGHT (music mode)

Pressing MOONLIGHT will select the moonlight, music mode and the indicator above the button will illuminate. As with the **LATIN** mode, the lights respond to the music but in **MOONLIGHT** mode, this happens more gradually. The lights will change between the colour set on the **RAINBOW DIAL** and 4 matching colours (selected automatically). In this mode, the colour changes a maximum of once every two seconds which works well with a waltz or slower music number. The brightness of the lights can be adjusted using the **FADER**.

5.6 POP (music mode)

When the LATIN button is pressed, the indicator above the button will illuminate indicating the pop, music mode is active. The lights change colour rapidly in time to the beat of the music. In this mode, the colours are random and not affected by the rainbow dial. The colours change a maximum of twice per second and as with the LATIN and MOONLIGHT modes, the brightness of the lights can be adjusted by using the FADER.

5.7 INTENSITY (sound mode)

When the INTENSITY mode is selected, the indicator above the button will illuminate. In this mode, the brightness of the lights is affected by the sound received by the internal microphone – the noisier the sound, the brighter the lights. The colour of the lights can be set using the RAINBOW DIAL. This mode is commonly used for a lightning effect as the lights will respond to a thunder sound effect. It also works well responding to speech.

5.8 FADER

The fader is used to adjust the brightness of the lights.

6 TheatreCom LED Cables

The cables for your TheatreCom backstage communication system have a 9 pin D socket at one end and a 9 pin D plug at the other end. Cables can be purchased from Top Hex in standard or custom lengths.

7 Installation

Before installing your TheatreCom portable LED stage lighting, it is worth setting up one or two **LED floodlights** with a **Lighting control** to become familiar with the connections and controls.

7.1 Mounting Arrangements

The bracket fitted to your **LED Floodlights** can be used to mount the light in several ways.

The light can be fitted to a TheatreCom TL-B base and placed on the floor.

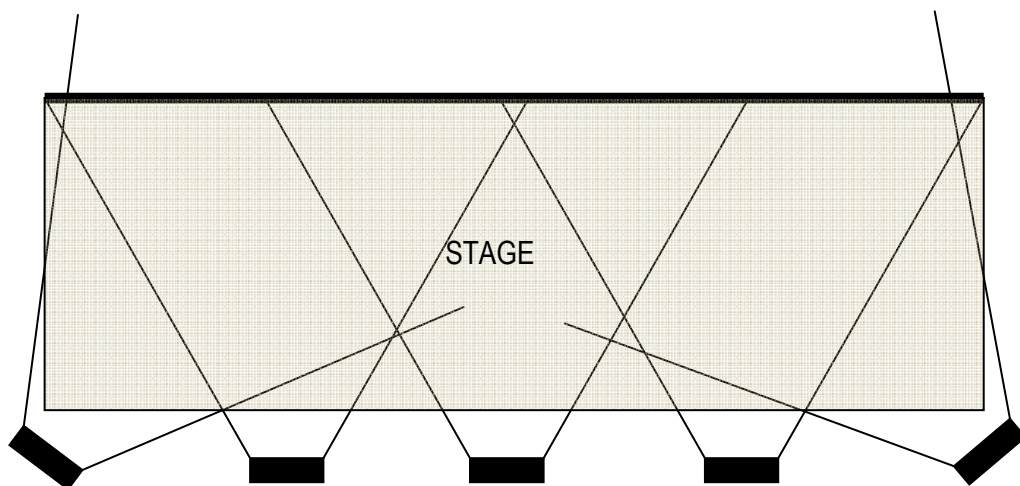
The light can be hung from a standard 50mm lighting bar. You are advised to fit a safety chain in order to ensure the light is secure.

The bracket has screw holes which allow the light to be screwed directly into a wall, ceiling or beam. Once again, it may be appropriate to consider a safety chain or other restraint.

7.2 Positioning the lights

As a guide, one **LED floodlight** will illuminate approximately 1m of stage. However, more lights will improve your lighting coverage.

The **LED floodlights** have a beam angle of approximately 30 degrees from centre. Allowing the beams to cross will minimise shadows and improve the overall lighting effect. If you are using floor-mounted lights to light a stage, consider adjusting the angle of the outer lights as shown below.



8 Troubleshooting

1. One of the colours (red, green or blue) is not being illuminated on the lights.

- (i) The most likely reason is that one of the cables is not screwed in properly. Check the LED lighting cables are pushed in and the screws are finger-tight.

2. The light works for a period of time then goes off.

- (i) The lights are protected with an over-temperature circuit which will turn off the light to prevent over-heating. Check the fan in the back of the light is rotating freely and that it is not obstructed. In the event of a problem, contact Top Hex to return the unit for repair.

3. None of the lights are working.

- (i) Check there is at least one indicator illuminated on the **Lighting Control**, this confirms the unit is powered up. If not, check the power is on, then check the fuses in the mains plug and in the back of the **Lighting control**.
- (ii) Try connecting the lighting control into just one **LED floodlight** via a short cable. Add the lights one by one to identify a faulty light or cable.

4. The lighting control or LED floodlight has failed.

- (i) Contact Top Hex to arrange for the unit to be returned for repair. Top Hex offer a lifetime repair guarantee service on all TheatreCom products. Please use the original packaging.

9 Product Range

Part:	Description:	Contents:
TL-2	Basic TheatreCom LED stage lighting kit	<ul style="list-style-type: none"> • TL-C lighting control with mains lead • 2 x TL-L LED stage floodlights • 1 x TL-C10 10m TheatreCom LED cable • 1 x TL-C5 5m TheatreCom LED cable
TL-4	Enhanced TheatreCom LED stage lighting kit	<ul style="list-style-type: none"> • TL-C Lighting control with mains lead • 4 x TL-L LED stage floodlights • 1 x TL-C20 20m TheatreCom LED cable • 1 x TL-C10 10m TheatreCom LED cable • 2 x TL-C5 5m TheatreCom LED cable
TL-5	Enhanced+ TheatreCom LED stage lighting kit	<ul style="list-style-type: none"> • TL-C Lighting control with mains lead • 5 x TL-L LED stage floodlights • 1 x TL-C20 20m TheatreCom LED cable • 2 x TL-C10 10m TheatreCom LED cable • 2 x TL-C5 5m TheatreCom LED cable
TL-B	Base	Floor mounting base for LED floodlight
TL-L	LED floodlight	TheatreCom LED stage floodlight
TL-C	Lighting control	TheatreCom lighting control
TL-C5	Cable	5m TheatreCom LED cable
TL-C10	Cable	10m TheatreCom LED cable
TL-C25	Cable	20m TheatreCom LED cable

10 Technical Specifications

TL-C Lighting Control:	
Supply Voltage:	230Vac
Supply Current:	2A
	The mains plug must be fitted with a 3A fuse to protect the system
Integral Fuse	3.15AT (slow blow) 20mm fuse
Dimensions:	200mm(w) x 120mm(h) x 200mm(d)
Weight:	2.90kg
TL-L LED Floodlight:	
Power:	50W
Operating voltage:	48V
Maximum floodlights per TL-C Lighting Control	5
Maximum cable length between units:	20m
Maximum system cable length:	50m
Dimensions:	220mm(w) x 330mm(h) x 55mm(d)
Weight:	1.90kg
TL-B Floor Mounting Base:	
Dimensions:	180mm(w) x 25mm(h) x 180mm(d)
Weight:	1.05kg
LED Cable:	
Specification:	5 core 16/0.2mm unscreened cable
Connector:	9 way D-type socket / plug



11 Guarantee

This TheatreCom product is warranted by Top Hex Ltd to the original end-user purchaser against defects in workmanship and materials in its manufacture for a period of one year from the date of shipment to the end-user.

Faults arising from misuse, unauthorised modifications or accidents are not covered by this warranty. If the TheatreCom product is faulty, it should be sent in its original packaging to Top Hex Ltd at the address below, with shipping prepaid. Please include details of the fault found and a copy of the supplier's invoice.

To reduce the risk of electrical shock, do not remove the cover on this TheatreCom product. There are no user serviceable parts inside. Removing the cover invalidates the warranty.

A life-time repair service is offered on this product; please contact Top Hex for details.

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