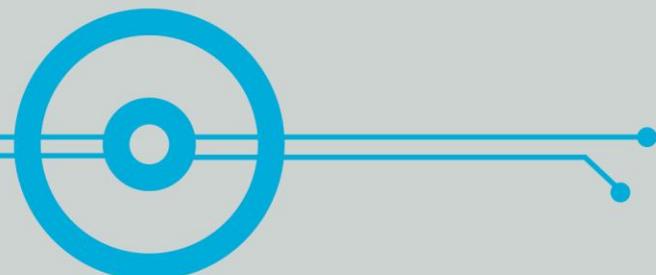


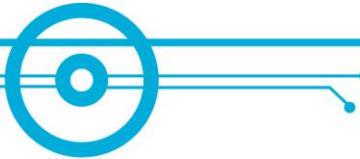
emp designs

LVT-1 User Guide



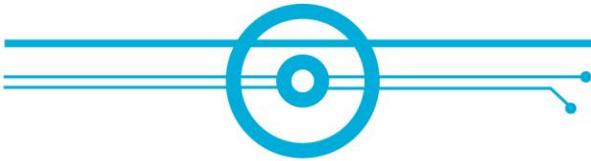
DATE
29/1/2025

PREPARED BY
Kate Stanton



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IMPORTANT SAFETY NOTICE

Read this user guide in full before you attempt to use the LVT-1.

On receipt of the LVT-1, check no damage has occurred whilst in transit. If you suspect any damage, do not use the controller until you have discussed the issue with EMP Designs Ltd.

If you do not fully understand anything contained in the user guide, contact the manufacturer by email before use (info@empdesigns.co.uk).

Ensure that all electrical connections and interconnections between external loads are properly made in accordance with the manufacturers' instructions and no short circuits between channels are made.

All external wiring remains the responsibility of the user.

Whilst EMP Designs Ltd. has made every effort to ensure the LVT-1 is safe to use and meets the client's specification, the client, prior to each application, should always complete on-site testing.

All external connections should only be made while the power is turned off.

Do not attempt to disassemble the controller in any way. Please return the controller to EMP Designs Ltd. if any servicing is required.

Damage may occur if the controller outputs are continually overloaded or short circuited.

Damage may occur if the power in polarity is incorrect.

Ensure a fuse is fitted to the input supply of the controller.

Avoid places subject to extremely high temperatures or humidity.

EMP Designs Ltd
LVT-1 User Guide 29/1/2025



Power Specification

Power Specification	
Current per channel max	6A
Voltage Input	12 - 24 Vdc
Voltage Output	12 - 24 Vdc



User Controls Guide

Power Connection

Connection to tungsten bulb



DMX Address Dials

H= Hundred

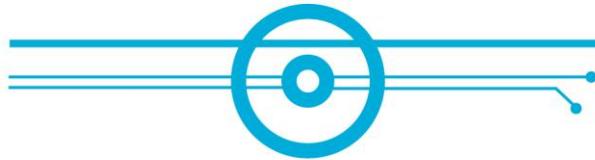
T = Tens

U = Units

Radio Sync Button

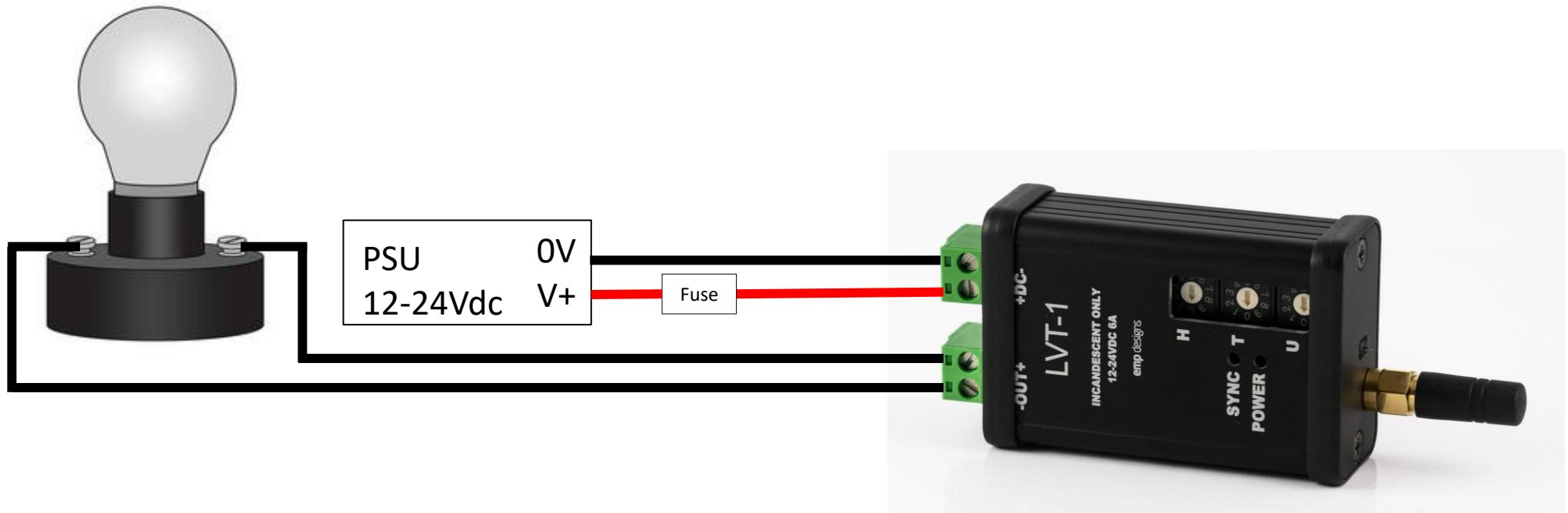
Power Indicator

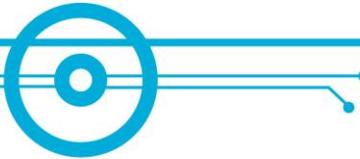
Radio Sync Indicator



Typical Application Wiring Diagram

(for reference only)

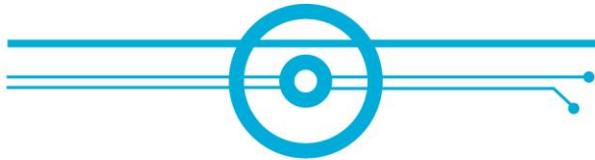




Using the LVT-1

1. Connect the LVT-1 in accordance with the wiring diagram on page 6.
2. Switch the power supply on ensuring that the voltage is set between 12 – 24Vdc.
3. Set the DMX address on the LVT-1 using the dials to match the required DMX channel on the lighting console. The DMX shown in the image on the right is 001.
4. Press the sync button on the radio transmitter, the sync LED on LVT-1 will start to flash. Once it has synchronised to the transmitter the LED will change from flashing to remaining on. It will now be possible to control the tungsten bulb via the console.





De-synchronising the LVT-1 from the Transmitter

7. To de-sync the LVT-1 from a transmitter press and hold the Radio Sync Button on the LVT-1 until the Radio Sync Indicator (yellow LED) goes out.



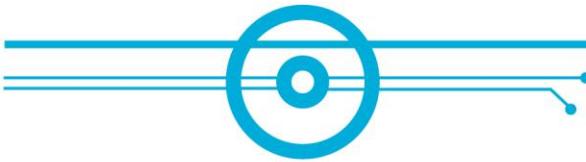
YouTube Support

We have a YouTube channel where there is a video demonstrating how to use the LVT-1.
The QR below will take you directly to the LVT-1 Instructional video.

Alternatively, visit our YouTube channel

<https://www.youtube.com/watch?v=U9-7DXZ3lIM>





Get in Touch

If you require further support, don't hesitate to get touch.

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<https://www.youtube.com/channel/UCWgFEywgZkPVL0zmKIg6NtA>