



AbstractAVR

**LUC01-S controller**

## Introduction

The Ledion LUC01-S controller is designed to control the AVR Ledion colour changing DMX lighting system.

It allows simple control of on/off, dimming, and colour selection. A basic colourfade mode is also included.

The operation of the LUC01-S controller is designed to mimic a normal wall dimmer switch to allow easy operation of LED lighting by the casual user.

## Memory

The LUC01-S will remember the lighting settings and will return to the same settings after a loss of power.

The colour and dimmer settings are stored every 20 seconds. After changing the settings, you need to wait at least 20 seconds before powering off the LUC01-S, otherwise the settings will not be stored.

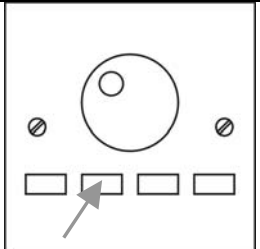
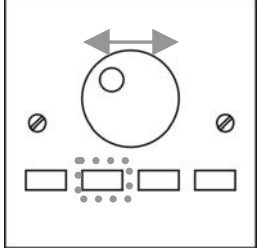
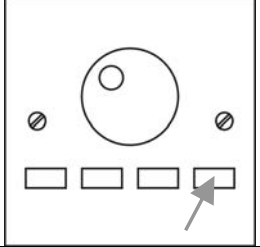
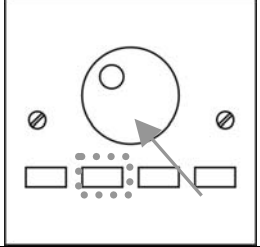
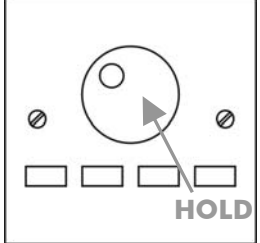
## Specification

Power supply 12-48V DC  
Output DMX512, 4 channels (Red, Green, Blue, White)  
(Channels 1-4 are repeated up to channel 64 to allow simultaneous control of more fixtures)

Terminal block wiring:  
1-Ground. (Brown on RJ45)  
2-DMX- (Orange on RJ45)  
3-DMX+ (Orange/White on RJ45)  
4- +12V-48V supply (Blue on RJ45)

RJ45 wiring on AVR driver box (other end of cable):  
1-DMX+ (Orange/White)  
2-DMX- (Orange)  
3-Ground (Green/White)  
4-48V Supply (Blue)  
5-48V Supply (Blue/White)  
6-48V Supply (Green)  
7-Ground (Brown/White)  
8-Ground (Brown)

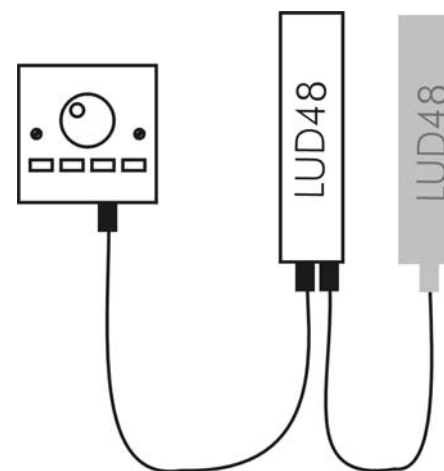
(48V Supply and ground are connected to all of the 3 pins in the driver)

<p><b>Colourfade mode</b> Press the second button. The lighting will fade through a sequence of colours.</p>		
<p><b>Colourfade speed</b> Turn the knob (while in colourfade mode). Turn clockwise to increase the speed, turn anticlockwise to decrease the speed.</p>		
<p><b>Sound trigger mode</b> Press the fourth button to enable or disable sound trigger mode. Sound trigger mode only takes effect when Colourfade is selected.</p>		
<p><b>Set pastel colourfade</b> Press the knob to set pastel colours. Press again to go back to normal colours.</p>		
<p><b>White light mode</b> Hold down the knob to set white lighting. Hold again or press any button to go back to normal. You can dim the white by turning the knob.</p>		

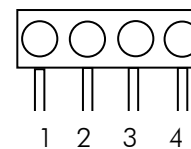
## Installation of the LUC01-S

The LUC01-S controller is used with one or more LUD48 or LMD04/08/16 LED power supplies.

The LUC01-S is connected to the LED driver using 4 core cable. This may be a standard RJ45 (computer network) type cable for LUD48, or an RJ11 4 pin cable for LMD drivers. If more than one LED driver is used, the others are daisy-chained from the first. This is done using RJ45 cables on the LUD48 or 3-pin XLR cables for the LMD drivers.



Terminal block wiring



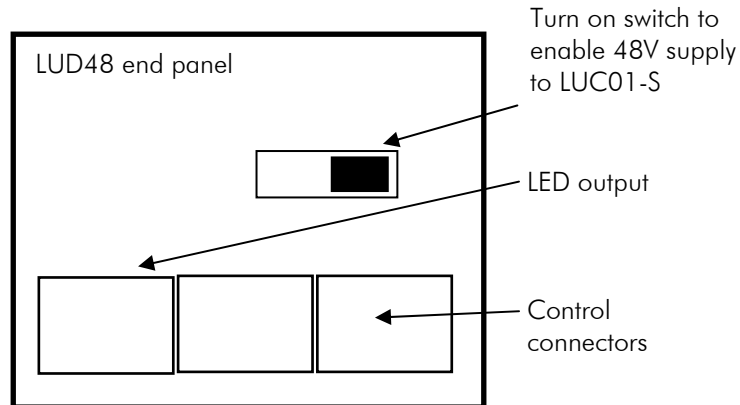
- 1=Ground. (Brown on RJ45)
- 2=DMX- (Orange on RJ45)
- 3=DMX+ (Orange/White on RJ45)
- 4= +12V-48V supply (Blue on RJ45)

The LUC01-S is powered by the LED driver. If using an LUD48, the power output from the LUD48 must be enabled by switching on the 48V power switch above the DMX connectors.

If you are using more than one LUD48 unit, the 48V switch must be turned ON on one unit only.

Other LED driver units may also be connected, if they have a 4 channel RGBW mode. The first unit must be an LUD48 or LMD unit to provide power to the LUC01-S.

Location of 48V switch on end panel of LUD48 unit:



## Operation

<p><b>Set fixed colour</b> Press the left button and rotate the knob to set a fixed colour.</p>		
<p><b>Pastel colours</b> Press the knob (when in fixed colour mode). A pastel colour mode will be selected. Press again to go back to full colours.</p>		
<p><b>Dimming</b> Press the 3rd button and rotate the knob. The lighting will get brighter or dimmer.</p>		
<p><b>Switching on and off</b> Press the knob (when in dimmer mode). The lighting will switch on and off at its current colour and brightness setting.</p>		