



The AD-LC6 MKII is a high power 6 channel LED driver. This versatile LED driver can be used for our RGB, single colour and tunable white LED modules as well as our LED spot range . The driver is controllable through DMX-512 but also offers stand-alone functions and is configurable with its internally selectable user modes. The refresh rate of this driver is adjustable up to 1800Hz which makes this driver suitable for studio applications.

This LED driver is also available as a 12 channel version.

### **Features**

High power 480 Watt Multi channel 6 channels

Stand alone

Adjustable refresh rate Up to 1800Hz

User configurable options U

## **Technical specifications**

Power

Input voltage: Output voltage: Output power: Channels: Current per channel: 12~24VDC 12~24VDC 240~480W\* 6 3,3A

Control

Control in/out: Refresh rate:

Lifespan:

DMX-512 / 1990 galvanically isolated 100~1800Hz user adjustable

Print connector / 8 pin Rj45 (optional)

Miscellaneous

Housing: Input connector: Screw terminal power inputs:

Screw terminal power inputs: Screw terminal power outputs: Mounting:

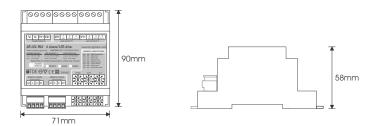
: Max. 2,5mm² ts: Max. 2,5mm² DIN-rail 50.000 hours

\*Dependent on input power

DIN-rail (4 module width)



## **Dimensions**



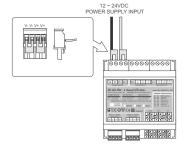
### Order Code

ADLC.6.24 - AD-LC6 MKII LED driver; 6 channel; 480W; DMX512

## Power input

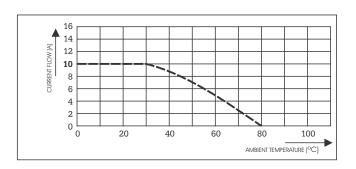
The AD-LC6 MKII LED driver has two power inputs. When using a single connection please use the supplied jumpers. This is to prevent the connector from overheating.

Place the jumper between V- and V- and between V+ and V+ of the power input. See the illustration on the right.



## Output power

The output of the LED driver depends on the current flow and the ambient temperature. As seen in the graphic below the maximum amount of current that can flow through the LED driver decreases in higher temperatures.





### Screw terminals

The screw terminals allow a maximum cable core of 2,5mm<sup>2</sup>. When connecting the wiring of the LED product to the AD-LC6 MKII make sure to use flexible cable with ferrules to ensure a proper connection. Also note when fastening the wires please make sure not to overtighten the screws.

### DMX wiring



UTP / FTP (ANSI E1.27-2)
Orange: (DMX-) Data 1
Orange/White: (DMX+) Data 2
Brown: (-) Common
Brown/White: (-) Common



in 1: (-) Common
in 2: (DMX-) Data 1
in 3: (DMX+) Data 2



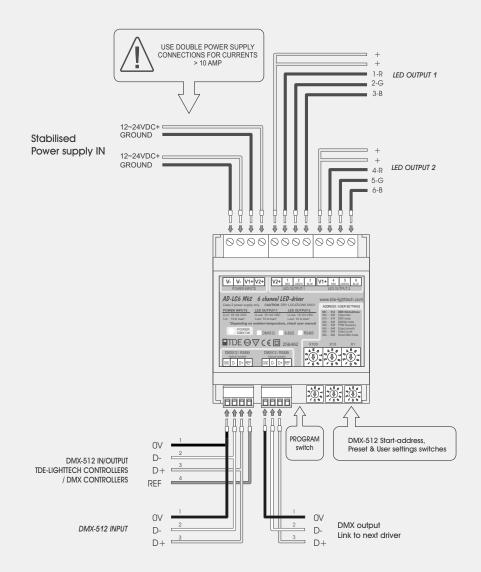
XLR-5P Pin 1: Pin 2: Pin 3:

( - ) Common (DMX-) Data 1 (DMX+) Data 2 Not used / (REF Supply Not used

### Connection overview

#### LED indication:

LED Indication:		
	D = OFF power	
	D = RED wer OK, No DMX	
	D = ORANGE blinking wer OK, DMX OK	
	D = GREEN utput channel testmode	
LED = GREEN blinking Selected usersetting		
	D = RED blinking of selected usersetting	
	D = ORANGE of a valid usersetting	

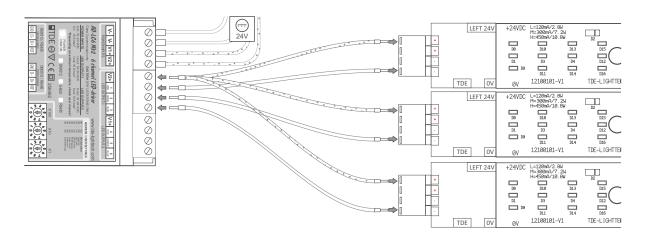




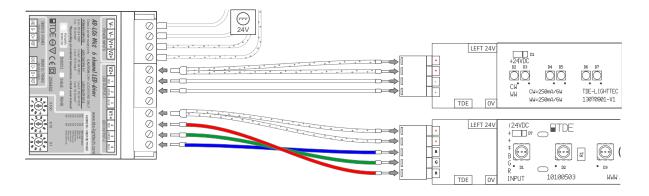
# Typical applications

All our suitable products are extensively tested with our LED-drivers please see the illustrations below for examples of possible configurations. The configurations below are only show a few configurations, there are numerous of configurations possible

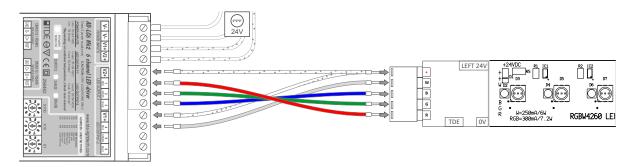
### 3 x Single colour LED module in combination with our AD-LC6 MKII LED driver



#### Tunable white LED module in combination with RGB LED line and AD-LC6 MKII LED driver

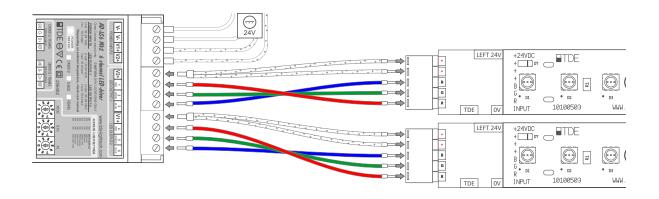


#### RGBW4260 LED module connection

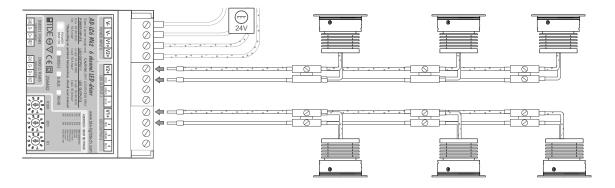




#### 2 x RGB LED module and AD-LC6 MKII LED driver



## Cursa / Canopus single colour LED spot in combination with AD-LC6 MKII LED driver

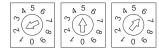




# Configure DMX

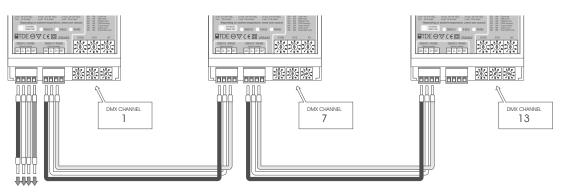
To set a DMX startadres on the AD-LC6 MKII LED driver turn the dipswitches on the LED driver to the desired adress.

Example start adres 256:



In order to control multiple AD-LC6 MKII LED drivers please make sure to set the DMX startadress on the LED-driver. When the default usermode (910) is set, every additional LED driver has to add +6 to their start address in order for individual control. See an example below:

The drivers have the default user mode 910 which is 6 channel mode every additional driver starts six channels further.



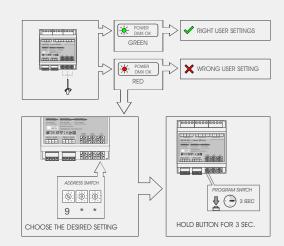
TDE lighttech controller / DMX Controller

## Programming usermodes

The AD-LC6 MKII has the unique feature to allow different configurations. The dipswitches on the driver allows the user to set a custom usermode. Please view the next page for the different usermode settings.

How to adjust the usermodes

- Set the desired usermode number with the dipswitches (see next page for usermodes).
- When set either a red or green LED will light up on the display. (when green the desired usermode has been configured previously).
- When the LED is red you can set the usermode by holding the programming button, which can be found on the left of the dipswitches.
- Hold the programming button for 3 seconds or longer.
- The LED will now turn green and the right usermode has been set





953 Constant output brightness (max. 200%)

954 Constant output brightness (max. 100%)

### User modes

927 Ch4 = 100%

928 Ch5 = 100%

929 Ch6 = 100%

[90#] Output test:	[93#] PWM-output frequency:
Select this option to test the output channels	Select this option to adjust the PWM-frequency
900 All channels on	930 137Hz
901 Ch1 = 100%	931 220Hz
902 Ch2 = 100%	932 320Hz (Default)
903 Ch3 = 100%	933 457Hz
904 Ch4 = 100%	934 582Hz
905 Ch5 = 100%	935 712Hz
906 Ch6 = 100%	936 916Hz
907 RGB-loop Ch13	937 1282Hz
908 RGB-loop Ch46	938 1603Hz
909 RGB-testloop Ch16	939 502000Hz, selectable with DMX channel-7
·	
[91#] DMX-mode:	[94#] Output smooth settings:
Set the required DMX-mode to one of the different output	In this setting the smoothing effect of the output
patch settings	brightness can be set. This can be used when using low
	DMX-framerate controllers or for super smooth
910 DMX [16] = Ch [16](Default)	architectural lightcontrols.
911 DMX $[13]$ = Ch $[13+46]$	
912 DMX [1] = $Ch[1+2+3+4+5+6]$	940 Off (No smoothing effect)
913 DMX [1],[2] = Ch [1+2+3],[4+5+6]	941 Minimum
914 DMX [1],[2],[3] = Ch [1+2],[3+4],[5+6]	942 Standard(Default)
915 DMX $[13]$ , $[4] = Ch [13]$ , $[4+5+6]$	943 Extra
916 DMX [1],[2],[3],[4]= Ch [1+2],[4+5],[3],[6]	944 Maximum
100 // DM// - 1 1 -	FOE #1 O. Lo. Lo. Consultation
[92#] DMXfail-mode:	[95#] Output-curve selection:
Set the required DMXfail-mode to set the output behaviour	Set the required Output-curve. In the constant output
when DMX-signal fails	modes (with RGB-LED's) one colour has the same
020 All outputs unobgroad (Dofguit)	brightness as two or more colours. Normal = $R+G+W = 300\%$ (= standard)
920 All outputs unchanged (Default) 921 All outputs OFF (0%)	Mode 953 = $R+G+W = 300\%$ (= significant)
922 All outputs ON (100%)	Mode $953 - R+G+W - 200\%$ Mode $954 - R+G+W = 100\%$
923 RGB-loop Ch16	MICOC 704 - KTOTW - 100/0
924 Ch1 = 100%	950 Standard curve (Default)
925 Ch2 = 100%	951 Linear curve
926 Ch3 = 100%	952 Deep curve (TV-studio applications)
720 CH0 = 10076	052 Constant output by white the case (no any 0000/)

To ensure proper functioning of the LED driver with a third party product please contact us for information.

In the view of a constant development of our products, we reserve the right for changing technical data and features without prior notice.