



AD-LC6 mk2

Compact 6 channel DMX-512 LED Driver

500 Watt HIGH-POWER
6 CH LED driver

Smooth brightness
control (SmartWave™)

DMX-512/1990 input
(optical isolated)

Several stand-alone
sequence modes

Solid-state fully protected
high-current outputs

Several RGB-modes
and DMX-fail settings

Adjustable refresh-rate
(TV/Studio applications)

Very compact 4M
DIN-rail enclosure

Very compact design:
70 x 90 x 60 mm



SPECIFICATIONS:

- 6 channel high-power LED-driver
500 Watts of total outputpower and max. 100
Watts Channel outputpower @ 24VDC (Max. 20
Amp)
- High current fully protected output stages with
shortcircuit, overtemperature, overvoltage and
overcurrent protection
- Optical isolated DMX-512/1990 input and output
- Smooth 12bit brightness control (SmartWave™)
- High adjustable refreshrate (TV/Studio app.)
(from 100 .. 2000 Hz)
- User interface for DMX-address settings,
DMX-mode, DMX-fail, standalone functions and
input interface options
- RJ45 input/output connectors or screw-terminals
for DMX-512 input/output connections
- 10...24VDC (stabilized) powersupply input
Maximum powerinput of 20 Amps
- Max. Total output power 500 Watts / 24VDC
- Max. Channel output power 100 Watts / 24VDC
- DIN-rail enclosure 4M - DIN 43880
Colour: Grey RAL7035
- Dimensions: 70 x 90 x 60 mm

This very reliable 6 channel (RGB)LED driver is a cost effective design for highly integrated complex (RGB)LED driving.

The AD-LC6 mk2 has two RGB-output stages to drive two individual RGB-LED lines. It also connects up to 6 individual single colour LED-lines.

It's compact design, high current fully protected output stages and smooth 12bit colour and brightness control (SmartWave™) finds his applications in LED architectural and entertainment lighting.

The AD-LC6 mk2 LED-driver has many user options and can be used in different standalone modes.

Through it's DIN-rail mounting and very simple address and usersettings this AD-LC6 mk2 LED-driver is very easy to install.

Check our website for detailed information.



Check our website: www.tde-lighttech.nl

www.tde-lighttech.com

TDE light-tech

Verrijn Stuartweg 11-A
1112 AW Diemen
The Netherlands
tel: +31(0)20 - 6973849
fax: +31(0)20 - 6971775



Preset & user settings

Before installing the AD-LC6 mk2 LED-driver you first have to set the required DMX & RGB modes and finally the required DMX512 startaddress.

This can easily be done with the three integrated DMX ADDRESS & USER SETTING switches. With these switches it is able to set the DMX-startaddress and several Preset and User settings. When you want to select the User-setting 923, set switch [X100] to 9, [X10] to 2 and [X1] to 3.

001 - 512	DMX-512 startaddress	Set the required DMX-512 startaddress
600 - 699	Preset colour selection	Select one of the 100 preset colours
700 - 799	Preset colourfade selection	Select one of the 10 preset colourfades
800 - 899	Preset colourprogram selection	Special USER-defined program selection
900 - 999	User settings	Set the required DMX & RGB modes

Read carefully the instructions here below to set the required user-settings:

User-settings and DMX-startaddress SETUP:

- Switch the power ON
- Open the cover carefully with a small screwdriver
At the bottom of the circuit-board you can locate the internal program switch next to the LED
- Select the desired USER-option with the DMX-setting switches (See next page)
For instance set [911] to select the dual RGB-mode >> Both RGB-outputs parallel
- To program the selected option press and hold the internal program-switch until the LED turns to Green. If LED is already green means that the selected option is already selected before.
- Repeat this until all user-settings are made.
- Close cover carefully
- Set the required DMX-startaddress between DMX-channel 1...512

It is also possible to use the AD-LC6 mk2 LED-driver as a standalone unit. For this application the AD-LC6 mk2 driver has several Preset colour-settings available. When a Preset colour-settings is selected, the DMX-512 input is disabled.

The following Preset colour-settings are available:

600 - 699	Select with the [X10] & [X1] switches one of the 100 steady preset colours
700 - 799	Select with the [X10] switch one of the 10 preset colourfades and with the [X1] one of the 10 preset fadetimes
800 - 899	Select with the [X10] switch one of the 10 user-programs and with the [X1] one of the 10 user-fadetimes. (This option is optional)

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User-settings

The AD-LC6 mk2 has several User-settings. These settings has to be made before using the AD-LC6 and befor esetting the DMX-512 start-address.

The following User-settings can be made:

900 - 909	Output test
910 - 915	DMX-mode
920 - 929	DMXfail-mode
930 - 939	PWM-output frequency

[90#] Output test

With this user setting you can test all LED-drive outputs individually or select a RGB testloop. This is very useful during testing an installation when the DMX-512 signal is not yet available. It is easily to check short-circuits between LED-drive outputs or between connected LED-strips.

[91#] DMX-mode

With this user setting it is able to patch output channels to DMX-512 input channels.

- 910 Default DMX-mode, each DMX-channel drives a corresponding LED-drive output (6 channels)
- 911 This mode is used to drive both RGB-outputs equally with using 3 DMX-channels. This is useful when you need more output power
- 912 This mode uses one DMX-channel to drive all LED-drive outputs simultaneous. This is useful using high power single colour LED-lines.
- 913 Similar to mode 912, but using 2 DMX-channels for 2 x 3 LED-drive outputs
- 914 Similar to mode 911 but with a different output channel patch
- 915 Two different output patches in one single mode
This is useful is applications when using one RGB-line and up to 3 single colour lines.

[92#] DMXfail-mode

With this mode it is able to select the output behaviour when the DMX-512 inputs fails or is not connected. This can be useful in certain safety applications

[93#] PWM-output frequency

With this mode it is able to select an certain PWM-ouput frequency. Default setting 932 is useful for almost all applications. When having trouble with certain security cameras or in TV/Studio applications you can change the PWM-ouput frequency. With mode 939 the PWM-ouput frequency can be adjusted with DMX channel-7

[90#] Output test:

Select this option to test the output channels

- 900 All channels off
- 901 Ch1 = 100%
- 902 Ch2 = 100%
- 903 Ch3 = 100%
- 904 Ch4 = 100%
- 905 Ch5 = 100%
- 906 Ch6 = 100%
- 907 RGB-loop Ch1..3
- 908 RGB-loop Ch4..6
- 909 RGB-loop Ch1..6

[91#] DMX-mode:

Set the required DMX-mode to one of the different output patch settings

- 910 DMX [1..6] = Ch [1..6] _____ (Default)
- 911 DMX [1..3] = Ch [1..3+4..6]
- 912 DMX [1] = Ch [1+2+3+4+5+6]
- 913 DMX [1],[2] = Ch [1+2+3],[4+5+6]
- 914 DMX [1],[2],[3] = Ch [1+2],[3+4],[5+6]
- 915 DMX [1..3],[4] = Ch [1..3],[4+5+6]

[92#] DMXfail-mode:

Set the required DMXfail-mode to set the output behaviour when DMX-signal fails

- 920 All outputs unchanged _____ (Default)
- 921 All outputs OFF (0%)
- 922 RGB-loop Ch1..3
- 923 RGB-loop Ch1..6
- 924 Ch1 = 100%
- 925 Ch2 = 100%
- 926 Ch3 = 100%
- 927 Ch4 = 100%
- 928 Ch5 = 100%
- 929 Ch6 = 100%

[93#] PWM-output frequency:

Select this option to adjust the PWM-frequency

- 930 137Hz
- 931 220Hz
- 932 320Hz _____ (Default)
- 933 457Hz
- 934 582Hz
- 935 712Hz
- 936 916Hz
- 937 1282Hz
- 938 1603Hz
- 939 50...2000Hz, selectable with DMX channel-7

www.tde-lighttech.com

Check our website for other LED-products:

LED-strips / spots / drivers / controller / powersupplies

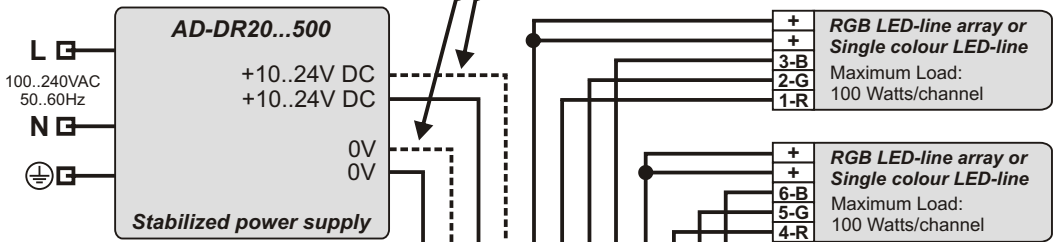
TDE lighttech

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Connections

USE DOUBLE
POWER SUPPLY CONNECTIONS
FOR CURRENTS > 10 AMP

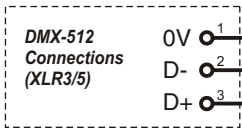
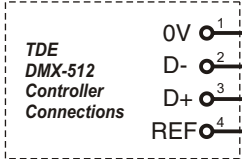
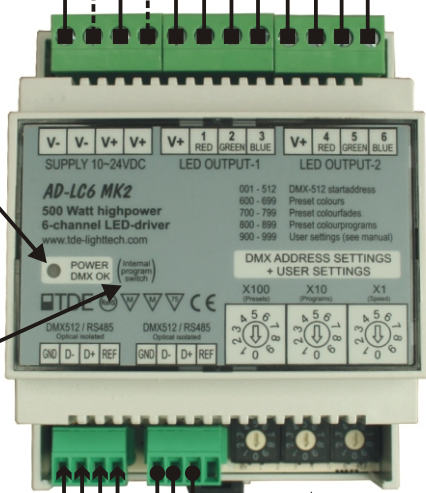


LED indication:

LED = OFF
No power
LED = RED
Power OK, No DMX
LED = ORANGE blinking
Power OK, DMX OK
LED = GREEN
Output channel testmode
LED = GREEN blinking
Selected usersetting
LED = RED blinking
Not selected usersetting
LED = ORANGE
Not a valid usersetting

Internal PROGRAM switch

The AD-LC6 has several DMX-modes. To enlarge the output power you may connect LED-drive outputs together, depending the DMX-mode user-setting. LED-drive outputs channels which are patched to the same DMX-channel can be connected together. When using DMX-mode 911 you may connect LED-drive outputs 1 + 4, 2 + 5, 3 + 6 together to create one RGB-output of 500Watts at 24VDC powersupply



The AD-LC6 mk2 can also be delivered with RJ45 input/output connectors:

RJ45 FTP/UTP connections:

XLR3/5 pin-1	-	0V	-	Orange + Orange/White
XLR3/5 pin-2	-	D-	-	Brown
XLR3/5 pin-3	-	D+	-	Brown/White

