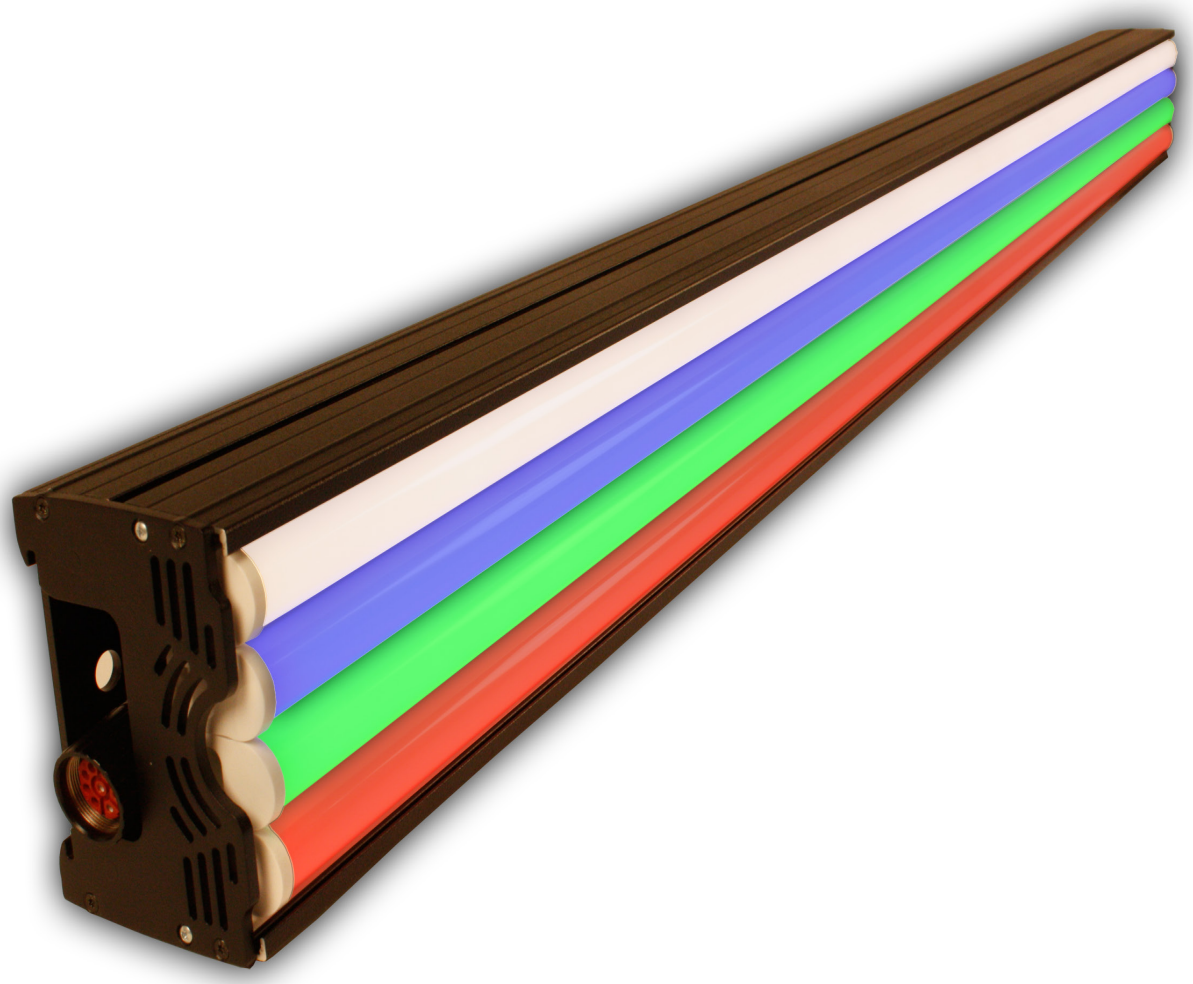
SpectraConnecT5 LED

from software version: V2.1
Released: 04-2017 - V1.0 - Rev A



LDDE LIGHTING IDEAS

Lighting
Design
Development
Electronics

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Overview DMX Modes

You can choose between 5 DMX modes each designed for different applications and preferences:

CH1 - ONE CHANNEL MODE (1 CHANNEL):

All colors in common (eg 4x 6000°K) - No intensity and strobe channel available.

CH2 - TWO CHANNEL MODE (2 CHANNELS):

Same as Ch1 - One Channel Mode, but with 8-bit Strobe.

CH4 - COLOR MODE (4 CHANNELS):

All colors can be separately controlled. No intensity and strobe channel available.

CH5 - COLOR INTENS MODE (5 CHANNELS)

Same as Ch4 - Color Mode, but with intensity channel.

CH6 - NORMAL MODE (6 CHANNELS)

Most common mode with all basic functions.

CH8 - HIGH RESOLUTION COLOR MODE (8 CHANNELS)

Same as Ch4 - Color Mode, but with 16-bit dimming.

CH9 - HIGH RESOLUTION MODE (9 CHANNELS)

Same as Ch8 - High Resolution Color Mode, but with 8-bit Strobe.

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Betriebsmodus

The table below shows the different available modes and the DMX channels required for the corresponding mode.

Channel	8-bit interpolated	Ch1 (901)	Ch2 (902)	Ch4 (904)	Ch5 (905)	Ch6 (906)
1	Intensity	xxx	xxx	xxx	1	1
2	R (red)	1	1	1	2	2
3	G (green)	1	1	2	3	3
4	B (blue)	1	1	3	4	4
5	W (white)	1	1	4	5	5
6	Strobe	xxx	2	xxx	xxx	6
Channel	**16-bit**	**Ch8 (908)**	**Ch9 (909)**			
1	red	1	1			
2	red fine	2	2			
3	green	3	3			
4	green fine	4	4			
5	blue	5	5			
6	blue fine	6	6			
7	white	7	7			
8	white fine	8	8			
9	Strobe	xxx	9			

In brackets, the BCD & Remote command is used to set the desired mode.
For example. To switch to the Ch10 -High Resolution Color Mode, use 910 on the BCD switch.

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Changing Operating Mode

Changes with BCD switch possible **only before** commissioning!
Changes with LDDE RemoteControl possible **only during operation**!

The respective mode can be changed by means of BCD switch or LDDE RemoteControl.

Changes to the setting or DMX addresses affect **all LDDE devices** which are addressed via the same DMX cable!

Settings with BCD switch

The settings of the SpectraConnecT5 LED can be made using the BCD switch on the back of the device, therefore the SpectraConnecT5 LED must be disconnected from the power supply.

To make changes, please proceed as follows.

1. Disconnect SpectraConnecT5 LED from the power supply!
2. Set the desired mode to the BCD switch.
3. Connect SpectraConnecT5 LED back to power supply.
4. The 4 channel lights up briefly and indicates that a change has occured.
5. Now set the desired DMX start address again.

Settings with LDDE RemoteControl

To change the settings of the SpectraConnecT5 LED, you need a LDDE RemoteControl.
This allows various changes to the basic settings and the DMX mode during operation.

To change the settings on the SpectraConnecT5 LED with the LDDE RemoteControl, please follow the steps below.

1. Disconnect the DMX connection to the SpectraConnecT5 LED.
2. Please note that no devices that could perform DMX value changes, such as a light console, are connected to this DMX line.
3. Connect the Power/DMX cable between SpectraConnecT5 LED and the LDDE RemoteControl.
4. Send the desired setting or DMX address to the SpectraConnecT5 LED.
5. The 4 channel lights up briefly and indicates that a change has occured.
6. Now set the desired DMX start address again.

Command	Function
601 - disabled	T5 Compatibility mode disabled
602 - enabled	T5 Compatibility mode enabled
700 to 799 - Intensity 0-100% (all channels)	Set desired Intensity 0-100% for all channels
801 - disabled	Fade to Zero off
802 - enabled	Fade to Zero on
844 - enabled	Invert DMX channels on
845 - disabled	Invert DMX channels off
858 - PWM 5,8kHz	PWM frequency set to 5,8kHz
880 - PWM 8kHz	PWM frequency set to 8kHz
911 - Linear	No characteristic is used
912 - Normal	Normal dimming curve is used
913 - Smooth	Smooth dimming curve is used
666 - Reset	Reset to factory default

The commands 700 to 799 can only be changed using BCD switch!

The SpectraConnecT5 LED is delivered with factory settings in 6Ch - Normal mode, which can be changed via the BCD switch on the back of the device or with a LDDE RemoteControl.

Factory Default	
Channelmode	Ch6 - Normal Mode
Dimming parameter	Normal
Channel inversion	disabled
T5 Compatibility mode	disabled
Fade to Zero	enabled

T5 Compatibility

601 - disabled	Normal mode with all settings available.
602 - enabled	Only available in 6Ch - Normal Mode A special dimming is used, this is adapted to the properties of the SpectraConnecT5 fluorescent.

Intensity (eg. for fixed installations where no DMX is available)

700 to 799 - Intensity 0-100%	The intensity can be set between 0 and 100%. This is suitable for testing the devices or for fixed installations where no changes have to be made via DMX.

Fade to Zero

801 - disabled	For a new DMX value (below DMX value 15) --> Snap to 0.
802 - enabled	For a new DMX value (below DMX value 15) is dimmed to 0.

Channel inversion

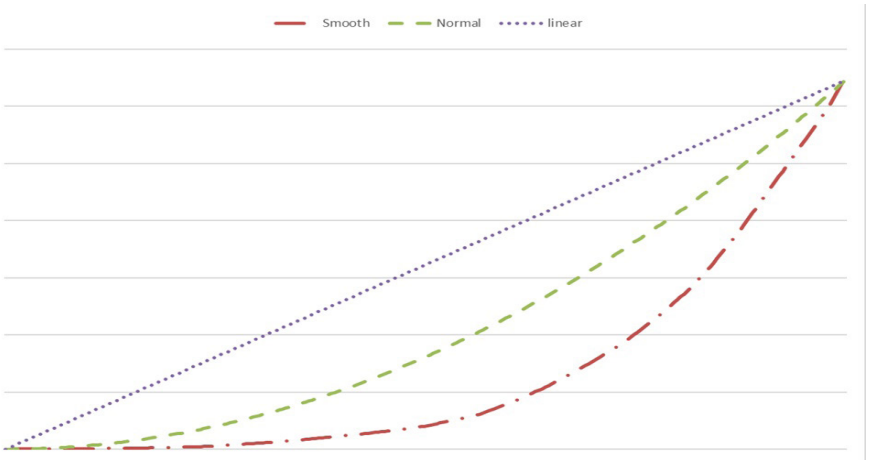
844 - enabled	The control of the DMX channels is inverted.
845 - disabled	Standard control of the DMX channels.

PWM frequency

880 - PWM 8kHz	The PWM frequency is set to 5,8kHz.
858 - PWM 5,8kHz	The PWM frequency is set to 8kHz.

Dimming parameter

911 - Linear	„Linear“ no characteristic is used.
912 - Normal	„Normal“ characteristic is used.
913 - Smooth	„Smooth“ characteristic is used.



Factory default

666 - Reset	The device is reset to factory settings.

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Technical Specifications

Dimensions / Weight

Lenght ..... 1488 mm / 58,58 Inches
Width .....116 mm / 4,56 Inches
Height ..... 81 mm / 3,18 Inches
Weight (without accessories)..... 8,60 kg / 18,96 lb

Control

Protocol DMX512/1990

Dimming

Dimming ..... Continous dimmer 0 - 100%
DMX-Channels ..... 1 / 2 / 4 / 5 / 6 / 8 / 9 DMX-Channels
Address settings ..... BCD switch or LDDE RemoteControl

Light Source

LED Engine ..... four replacable LED tubes with up to 4000 Lumen
Average life span ..... approx. 30.000 hours

Connections

Input / Output .....Power/Data Multicore cable

Electrical specifications

Input voltage range..... 100-240VAC | 50/60Hz
Max. Power consumption 160W

Construction

Housing ..... Aluminium continous casting profile
Color ..... black (other RAL colors on request)
Minimum clearance of the LED ..... 100mm / 3,93 Inches
Minimum clearance for sufficient cooling .....300mm / 11,81 Inches
Cooling ..... convection cooling
Protection class IP20

Safety standards

Certifications .....CE, EN 55015, EN 60669, EN 60929, EN 61000-3-2, EN 61000-3-3

Temperatures

Maximum ambient temperature..... ta: +40° / +104°F

Dimensions