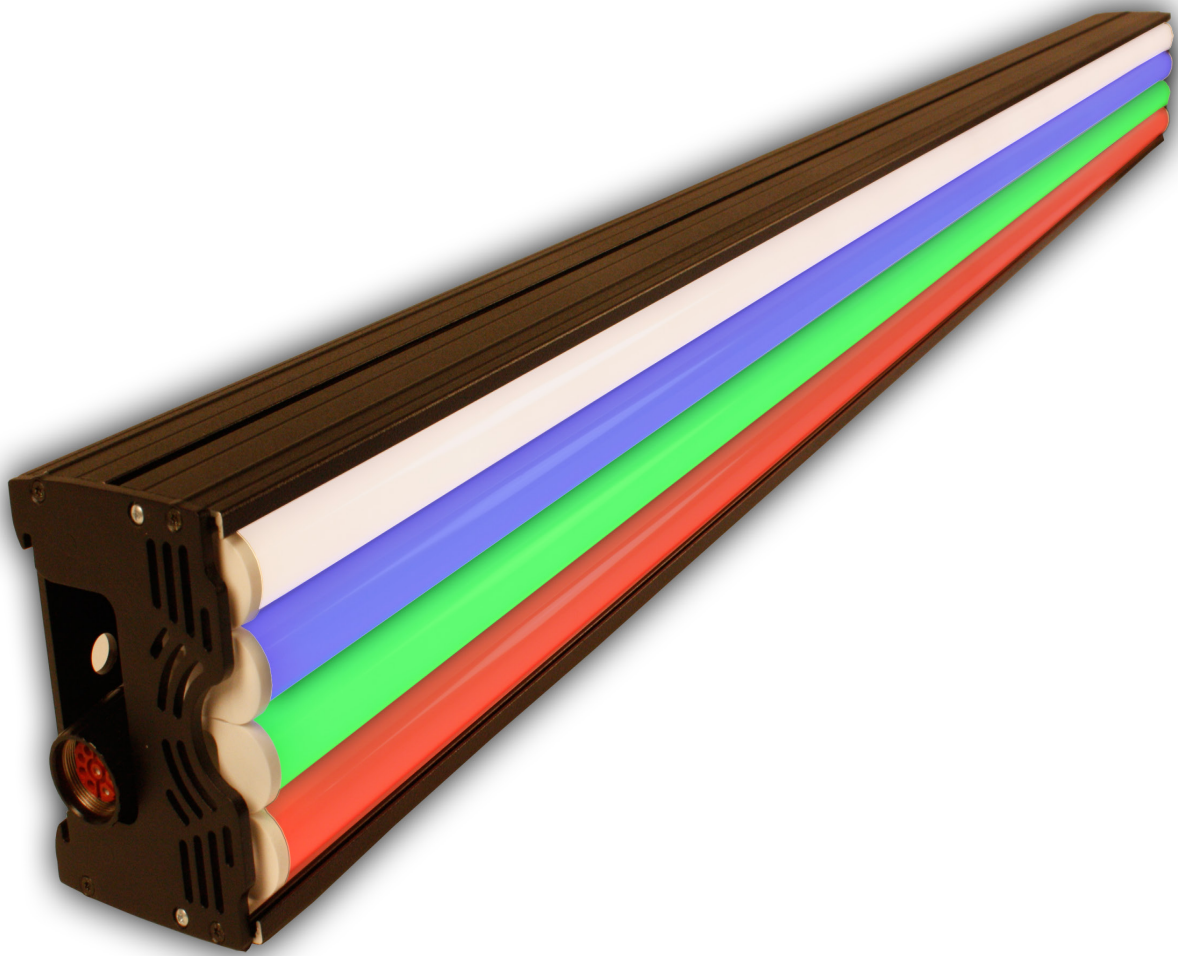


SpectraConnectT5 LED

from software version: V2.2

Released: 12-2017 - V1.1 - Rev B



Safety Guidelines



» Please read these safety guidelines carefully before you take the SpectraConnect5LED into service.

» Check the suitability of the product for the intended use.

» The SpectraConnect5LED is not suitable for outdoor use (IP20).



» Do not attempt to repair or dismantle the SpectraConnect5LED fixture: Opening and removing the internal covers can result in electrocution or other serious injuries.

» In case of product failure, please contact LDDE or an authorised LDDE-dealership.



» Do not touch the fixture while it is in use.



» Disconnect the fixture from the power supply before re-positioning and cleaning.

» Ensure that when the luminaire systems are installed in decorations, a sufficient clearance of around 30cm is required for adequate cooling and ventilation.

» Protect the fixture from shocks and impacts.

» Protect the fixture from moisture and water and avoid contact with moist or wet appliances.



» Ensure that the fixture is not covered and adequate ventilation is in place.



» Do not insert objects into openings of the housing that are connected to live parts as this can lead to short circuiting. Danger of electric shock and risk of fire.

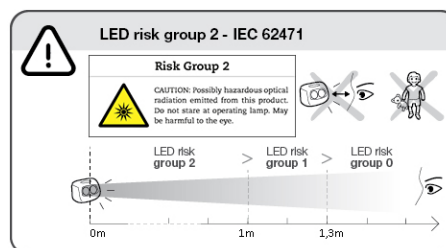
» The fixture is to be removed from service if:

- there is visible damage
- parts have become loose
- there is visible damage to cable connections

» LDDE products are manufactured and delivered in concordance with EU directive 2002/96/EU of the European Parliament and the Council on Waste Electrical and Electronic Equipment (WEEE). Help protect the environment and dispose of used products at your local recycling station.



Your dealership can offer further advice on correct disposal.



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.

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.

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 occurred.
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 occurred.
6. Now set the desired DMX start address again.

Overview Settings

Command	Function
555 - Display current SW-version	Current Software version is indicated
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

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

Display current software version

555 - Display current Software The current SW version is indicated by the flashing of the LED tubes. The tubes flash 2 times at a slow speed for the front of the software (shown in red) and at a fast speed for the rear areas (shown in blue), for example. **V2.2**.

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

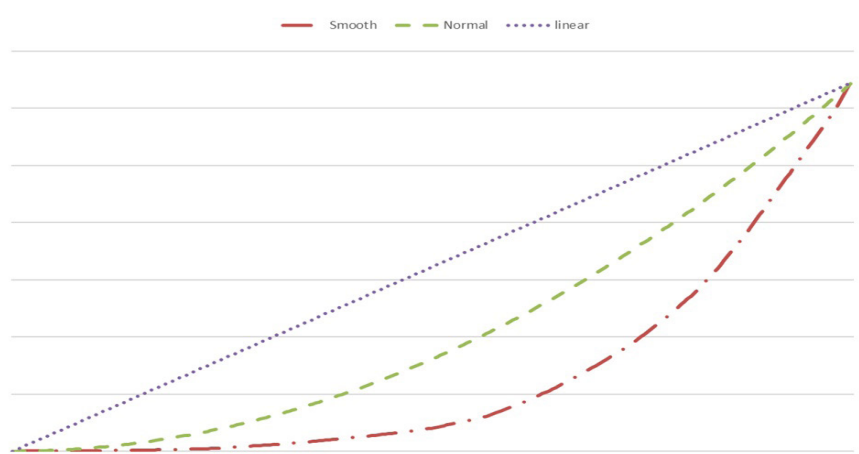
„Linear“ no characteristic is used.

912 - Normal

„Normal“ characteristic is used.

913 - Smooth

„Smooth“ characteristic is used.



Factory default

666 - Reset

The device is reset to factory settings.

Technical Specifications

Dimensions / Weight

Length	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
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Dimming

Dimming	Continuous 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
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Electrical specifications

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

Construction

Housing	Aluminium continuous 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

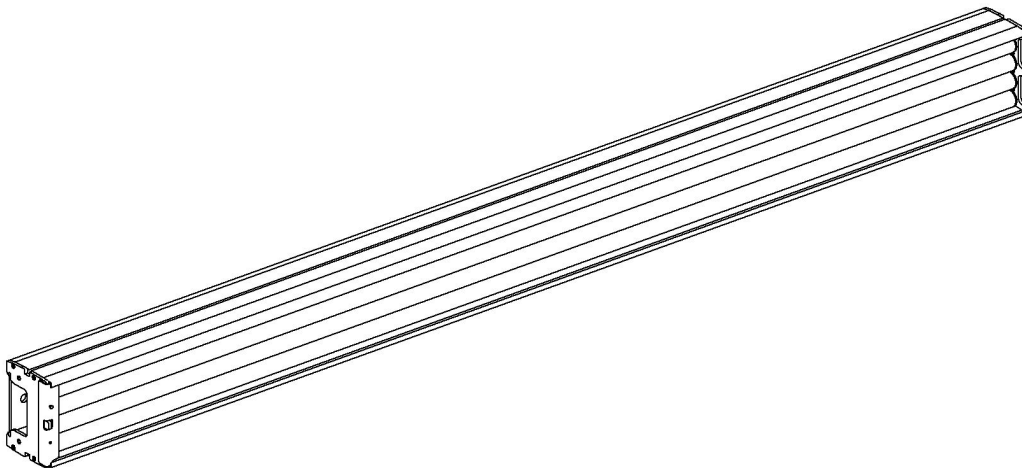
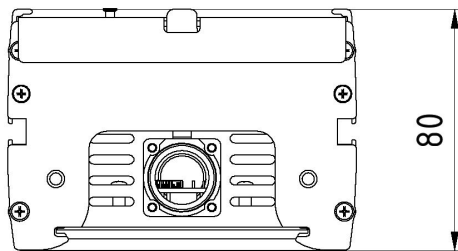
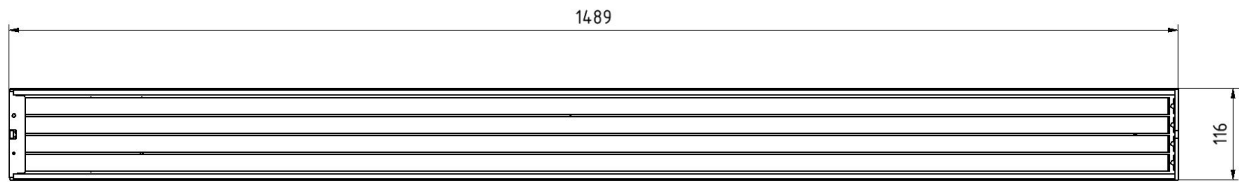
Safety standards

Certifications	EN 55015, EN 60598-1, EN 61000-3-2, EN 61000-3-3, EN 61547
Photobiological safety according to IEC 62471:2008 / EN 62471:2008	

Temperatures

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



EG-Konformitätserklärung EC Declaration of Conformity



Der Hersteller:
The manufacturer:

LDDE Vertriebsgesellschaft m.b.H
Simmeringer Hauptstraße 357
AT-1110 Wien
Austria

erklären hiermit, dass das nachfolgend angeführte Produkt den einschlägigen grundlegenden Schutzanforderungen, die in den Richtlinien des Rates zur Angleichung der Rechtsvorschriften der Mitgliedsstaaten über die EMV,- und Niederspannungsrichtlinie festgelegt sind, entspricht.

declare that the product listed below complies with the relevant basic protection requirements set out in the Council Directives on the approximation of the laws of the Member States relating to the EMC, EMC and Low Voltage Directives.

EMV-Richtlinie 2004/108/EG
EMC-Directive 2004/108/EC

Produkttyp / Baureihe:
Product type / Model series:

SpectraConnect5 LED

EG Richtlinien, angewandte harmonisierte Normen:
EC Directives, applied harmonized standards:

EN 55015, EN 60598-1 EN 61000-3-2, EN 61000-3-3, EN 61547, EN 62471

Diese Erklärung wird verantwortlich für den Hersteller bzw. Inverkehrbringer.
This declaration becomes responsible for the manufacturer or distributor.

LDDE Vertriebsgesellschaft m.b.H, Simmeringer Hauptstraße 357, A-1110 WIEN, Austria

abgegeben durch

Kurt Reiter

Geschäftsführer / CEO

Wien am 27.11.2017

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