



# DIGITAL PIXEL

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The best of LED unlocked. *Digitally.*

**PROLED®**



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## LIGHTING REDEFINED: THE POWER OF DIGITAL PIXEL

“Light is no longer just illumination; it’s expression. DIGITAL PIXEL brings your ideas to life with precision, creativity, and flexibility.”

**Sven Claes, Product Director, PROLED GROUP**

Digital, flexible, and innovative – DIGITAL PIXEL’s technology represents a transformative approach to contemporary lighting. Designed for professionals and visionaries alike, DIGITAL PIXEL LEDs offer the ultimate tool for crafting dynamic, precise, and vibrant lighting experiences in any environment. Exceeding the highest industry standards, DIGITAL PIXEL empowers you to transform indoor and outdoor spaces with unmatched precision, reliability, and versatility.

From illuminating facades and smart city applications to immersive event lighting and intricate lighting sequences, DIGITAL PIXEL brings your vision to life with unparalleled brilliance and reliability. Advanced control options enable breathtaking animations, dynamic sequences, and custom lighting designs—seamlessly tailored to your concept. With DIGITAL PIXEL, each project is bold, reliable, and unforgettable.

# THE UNLEASHED POTENTIAL OF DIGITAL LIGHTING

## ○ Light control in all facets

Take full control of every lighting detail, from subtle dimming to bold effects, for a truly customisable experience.

## ○ Shared access

Collaborate effortlessly with shared system access, enabling your team to work together seamlessly.

## ○ Colour control & sequences

Create vibrant animations and intricate light sequences that bring your vision to life with precision and colour.

## ○ 24/7 remote control

Maintain complete control anytime, anywhere, with intuitive remote access available 24/7 for ultimate flexibility.

## ○ Outdoor & facade applications

Built to withstand all weather conditions, DIGITAL PIXEL maintains performance and durability in even the harshest environments.

## ○ Latest industry standards

Built to exceed the latest industry benchmarks, DIGITAL PIXEL ensures optimal performance and reliability.

## ○ Adjustable sequences

Adapt and update your lighting and sequences digitally—no replacements needed.

## ○ Seamless integration & installation

The modular design integrates easily into existing setups, providing a streamlined and efficient installation process that scales effortlessly to any project size.







RESIDENTIAL



EVENT



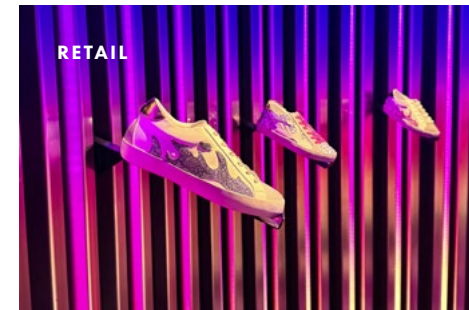
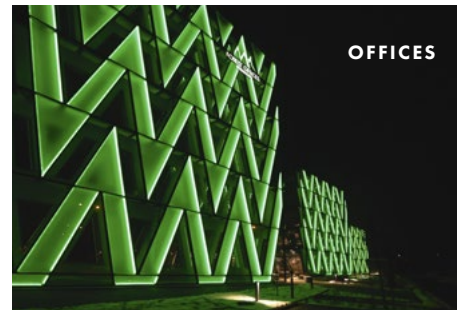
OUTDOOR



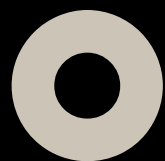
PUBLIC / SIGNAGE



DIGITAL PIXEL enhances projects across various sectors, including architecture, events, retail, and public spaces. Transform facades, create immersive experiences, highlight products, and improve urban landscapes with smart city solutions.







# COMPONENTS

Precision meets flexibility: PROLED's DIGITAL PIXEL components, including flexible LED strips, flex tubes and LED sheets, offer a new level of versatility. With individual control of each LED and segment, they are ideal for dynamic lighting designs in architecture, events and interactive installations. From vibrant effects to intricate animations, PROLED components deliver precision and inspire creativity.



## FLEX STRIP DIGITAL 60-12

SPI-R



## TECHNICAL DATA

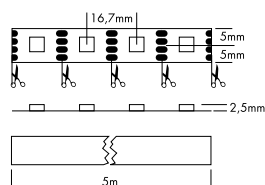
IP classification	IP20
	IP65 For outdoor use
Power source	12 VDC
Electrical connection	2x cable with 4-Pin to open wires
Maximum quantity per power input	5 m
Average lifetime*	50,000 h at L80/B10
Operating temperature range	-10 °C to +45 °C
Dimensions (W x H)	IP20 10 x 2,5 mm
	IP65 13 x 6 mm
Min. bending radius	20 mm
Cuttable	Every LED (1,67 cm)

\*With correct installation and a suitable thermal management.

## PHOTOMETRIC DATA

LED type	SMD RGB 3-in-1 LEDs
Luminous flux	IP20
	<ul style="list-style-type: none"> <li>60 lumen per m</li> <li>180 lumen per m</li> <li>55 lumen per m</li> <li>R+G+B (white) 295 lumen per m</li> </ul>
	IP65
	<ul style="list-style-type: none"> <li>55 lumen per m</li> <li>160 lumen per m</li> <li>50 lumen per m</li> <li>R+G+B (white) 265 lumen per m</li> </ul>
Wave length	620 nm
	525 nm
	470 nm
Beam angle	120°

Due to conditions of production photometric data can vary from production batch to production batch within the EU directive.



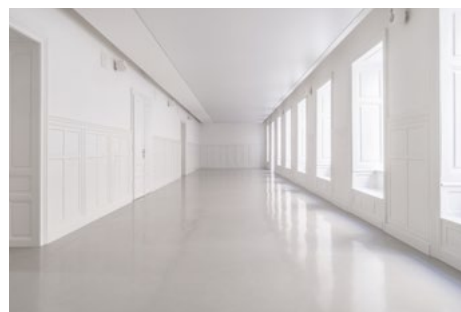
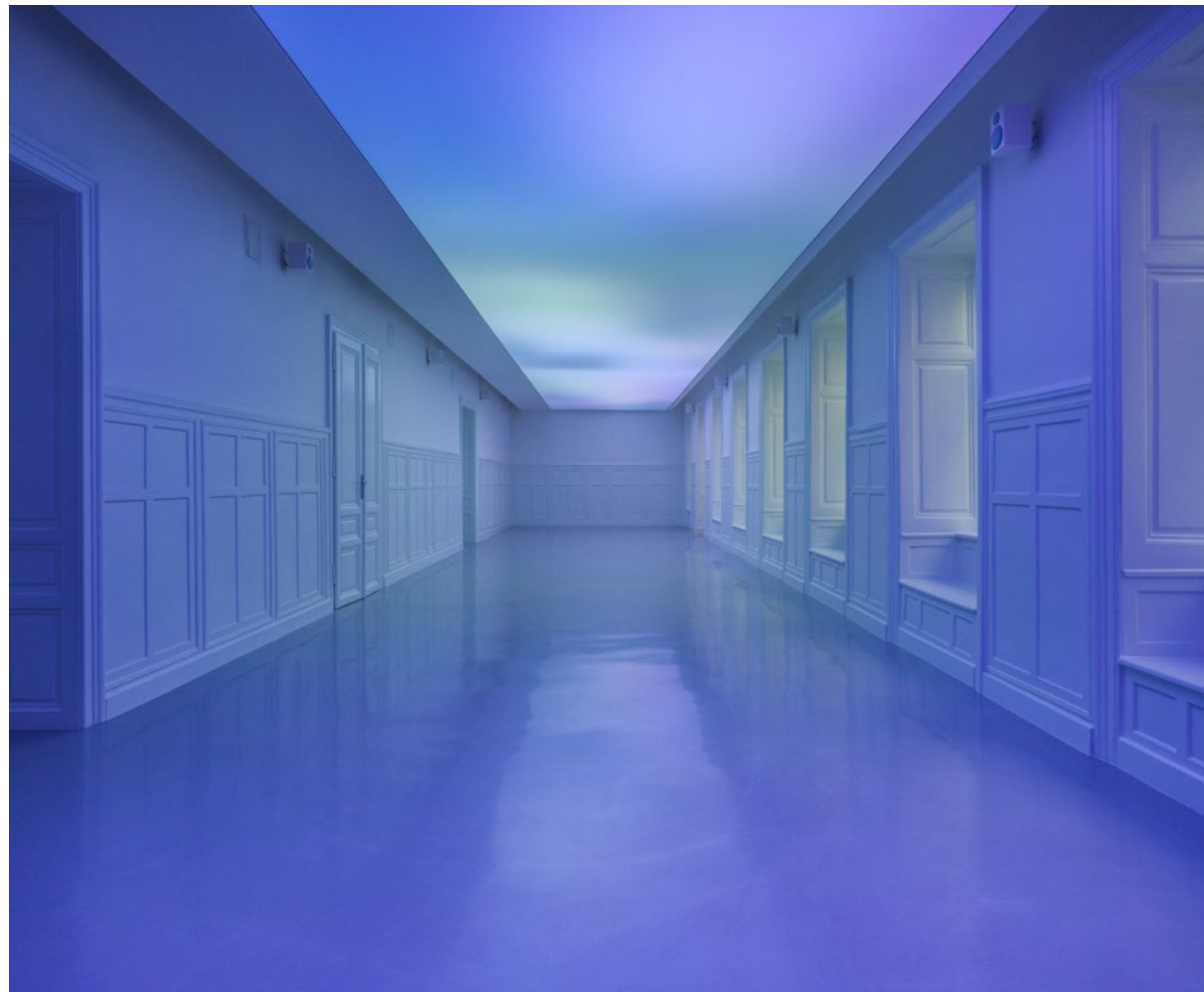
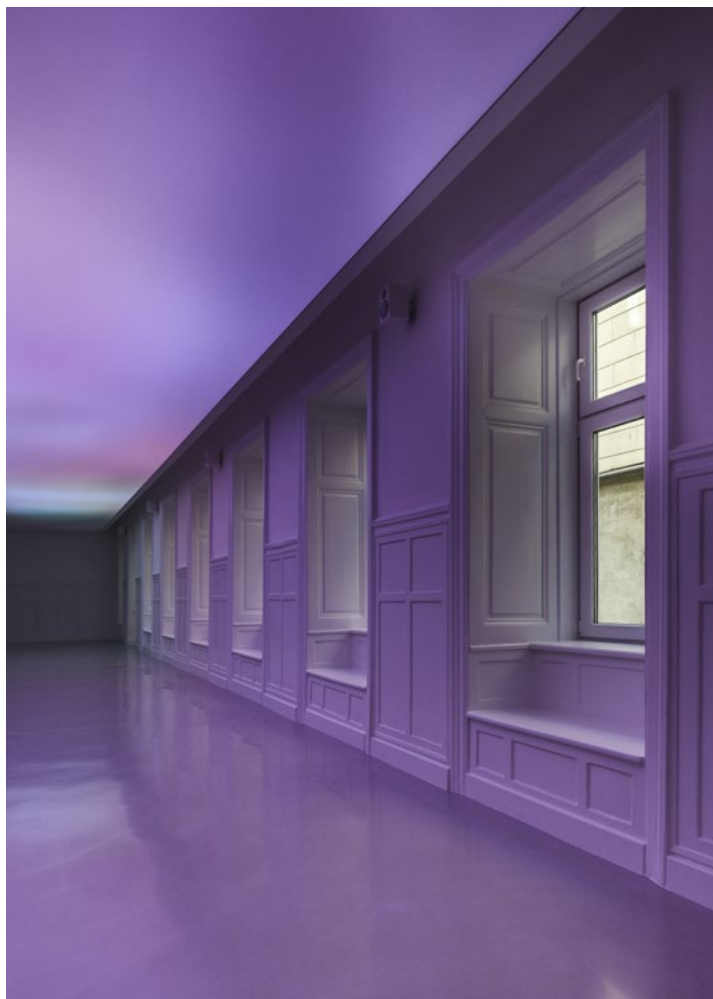
## PRODUCT TYPES

ORDER CODE	COLOUR	LENGTH	LED PCS	LED POWER	POWER CONSUMPTION*	WEIGHT
IP20 L6806S4	RGB	500 cm	300	50 watt	50 watt	0,125 kg
IP65 L68606S4	RGB	500 cm	300	50 watt	50 watt	0,125 kg

Custom length. See website for more information on special lengths and customisation.

IP20 L6806S4Z	RGB	per meter (max. 5 m)	60 per m	10 watt per m	max. 10 watt per m	0,025 kg
IP65 L68606S4Z	RGB	per meter (max. 5 m)	60 per m	10 watt per m	max. 10 watt per m	0,025 kg

\*Actual power consumption





## FLEX STRIP DIGITAL 60 SEG RGBW

SPI



## TECHNICAL DATA

IP classification	IP20
	IP65 For outdoor use
Power source	24 VDC
Electrical connection	2x cable with 3-Pin to open wires
Maximum quantity per power input	5 m
Average lifetime*	50,000 h at L80/B10
Operating temperature range	-10 °C to +45 °C
Dimensions (W x H)	IP20 10 x 2,5 mm
	IP65 13 x 6 mm
Min. bending radius	20 mm
Cutable	Every 6 LEDs (10 cm)

\*With correct installation and a suitable thermal management.

## PHOTOMETRIC DATA

LED type	SMD RGBW 4-in-1 LEDs
Luminous flux	IP20
	<ul style="list-style-type: none"> <li>100 lumen per m</li> <li>300 lumen per m</li> <li>50 lumen per m</li> <li>450 lumen per m</li> <li>R+G+B+W 900 lumen per m</li> </ul>
	IP65
	<ul style="list-style-type: none"> <li>90 lumen per m</li> <li>245 lumen per m</li> <li>45 lumen per m</li> <li>390 lumen per m</li> <li>R+G+B+W 770 lumen per m</li> </ul>
Wave length	620 nm
	525 nm
	470 nm
Colour temperature	White 6500K
CRI	80
Beam angle	120°

Due to conditions of production photometric data can vary from production batch to production batch within the EU directive.

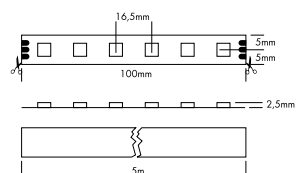
## PRODUCT TYPES

ORDER CODE	COLOUR	LENGTH	LED PCS	LED POWER	POWER CONSUMPTION*	WEIGHT	EEC
IP20 L6806S5	RGBW	500 cm	300	93 watt	93 watt	0,09 kg	G
IP65 L68606S5	RGBW	500 cm	300	93 watt	93 watt	0,09 kg	G

Custom length. See website for more information on special lengths and customisation.

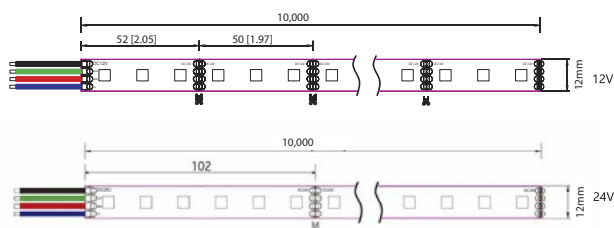
IP20 L6806S5Z	RGBW	per meter (max. 5 m)	60 per m	18,6 watt per m	max. 18,6 watt per m	0,02 kg	G
IP65 L68606S5Z	132_RGBW	per meter (max. 5 m)	60 per m	18,6 watt per m	max. 18,6 watt per m	0,02 kg	G

\*Actual power consumption



## FLEX STRIP FXT10-RGBW

SPI-R



## TECHNICAL DATA

IP classification	IP20
Power source	12VDC, 24VDC
Electrical connection	2x cable with 4-Pin to open wires
Maximum quantity per power input	12VDC – 2,5 m 24VDC – 5,0 m
Average lifetime*	50,000 h at L80/B10
Operating temperature range	-20 °C to +70 °C
Dimensions (W x H)	12 x 2,5 mm
Min. bending radius	20 mm
Cuttable	12VDC – all 3 LEDs (5 cm) 24VDC – all 6 LEDs (10 cm)

\*With correct installation and a suitable thermal management.

## PHOTOMETRIC DATA

LED type	SMD RGBW 4-in-1 LEDs
Luminous flux	<ul style="list-style-type: none"> <li>● 108 lumen per m</li> <li>● 338 lumen per m</li> <li>● 69 lumen per m</li> <li>○ 783 lumen per m</li> </ul> R+G+B+W 1,298 lumen per m
Wave length	<ul style="list-style-type: none"> <li>● 620 nm</li> <li>● 525 nm</li> <li>● 470 nm</li> </ul>
Colour temperature	White 2700K, 4000K, 6500K
CRI	80+
Beam angle	120°

Due to conditions of production photometric data can vary from production batch to production batch within the EU directive.

## PRODUCT TYPES

ORDER CODE	COLOUR	LENGTH	POWER-SOURCE	LED POWER	POWER CONSUMPTION*
t.b.a.	RGBW	500 cm	12VDC	133 watt	133 watt
t.b.a.	RGBW	500 cm	24VDC	133 watt	133 watt
Custom length. See website for more information on special lengths and customisation.					
t.b.a.	RGBW	per meter (max. 5 m)	12VDC	26,6 watt per m	max. 26,6 watt per m
t.b.a.	RGBW	per meter (max. 5 m)	24VDC	26,6 watt per m	max. 26,6 watt per m

\*Actual power consumption

## FLEX TUBE PRO DIGITAL RGBW

SPI



## TECHNICAL DATA

<b>IP classification</b>	<b>IP67</b> For outdoor use
<b>Power source</b>	24 VDC
<b>Electrical connection</b>	3-Pin
<b>Maximum quantity per power input</b>	Indoor (constant temperature): · Dynamic programming 10 m (single end), 20 m (both ends) · Static full load 5 m (single end), 10 m (both ends)  Outdoor (because of temperature fluctuations and different thermal expansion coefficients of the materials): max. 10 m
<b>Average lifetime*</b>	50,000 h at L80/B10
<b>Operating temperature range</b>	-10 °C to +45 °C
<b>Dimensions</b>	60 mm
<b>Min. bending radius</b>	40 m
<b>Cuttable</b>	All 7 LEDs (12,5 cm)

\*With correct installation and a suitable thermal management.

## PHOTOMETRIC DATA

<b>LED type</b>	SMD RGBW 4-in-1 LEDs
<b>Luminous flux</b>	<ul style="list-style-type: none"> <li>● 70 lumen per m</li> <li>● 180 lumen per m</li> <li>● 40 lumen per m</li> <li>○ 190 lumen per m</li> <li>R+G+B (white) 480 lumen per m</li> </ul>
<b>Wave length</b>	<ul style="list-style-type: none"> <li>● 620 nm</li> <li>● 525 nm</li> <li>● 470 nm</li> </ul>
<b>Colour temperature</b>	4000 K
<b>Beam angle</b>	120°

Due to conditions of production photometric data can vary from production batch to production batch within the EU directive.



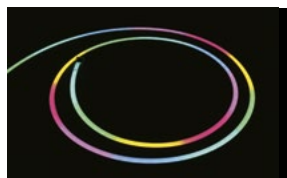
## PRODUCT TYPES

ORDER CODE	COLOUR	LENGTH	LED POWER	POWER CONSUMPTION*	WEIGHT	EEC
<b>L341D40R</b>	RGBW	40 m	15 watt per m	15 watt per m	20 kg	G
Custom length. See website for more information on special lengths and customisation.						
<b>L341D40RZ</b>	RGBW	per meter **	15 watt per m	15 watt per m	0,5 kg	G

\*Actual power consumption \*\* Maximum possible lengths

## FLEX TUBE FLAT DIGITAL RGBW

SPI



## TECHNICAL DATA

<b>IP classification</b>	<b>IP67</b> For outdoor use
<b>Power source</b>	24 VDC
<b>Electrical connection</b>	3-Pin
<b>Maximum quantity per power input</b>	Indoor (constant temperature): · Dynamic programming 10 m (single end), 20 m (both ends) · Static full load 5 m (single end), 10 m (both ends)  Outdoor (because of temperature fluctuations and different thermal expansion coefficients of the materials): max. 10 m
<b>Average lifetime*</b>	50,000 h at L80/B10
<b>Operating temperature range</b>	-10 °C to +45 °C
<b>Dimensions</b>	60 mm
<b>Min. bending radius</b>	50 m
<b>Cuttable</b>	All 7 LEDs (12,5 cm)

\*With correct installation and a suitable thermal management.

## PHOTOMETRIC DATA

<b>LED type</b>	SMD RGBW 4-in-1 LEDs
<b>Luminous flux</b>	● 60 lumen per m ● 140 lumen per m ● 30 lumen per m ○ 150 lumen per m R+G+B (white) 350 lumen per m
<b>Wave length</b>	● 620 nm ● 525 nm ● 470 nm
<b>Colour temperature</b>	Neutral white 4000 K
<b>Beam angle</b>	120°

Due to conditions of production photometric data can vary from production batch to production batch within the EU directive.

## PRODUCT TYPES

ORDER CODE	COLOUR	LENGTH	LED POWER	POWER CONSUMPTION*	WEIGHT	EEC
<b>L372D40R</b>	RGBW	50 m	15 watt per m	15 watt per m	17,5 kg	G
Custom length. See website for more information on special lengths and customisation.						
<b>L372D40RZ</b>	RGBW	per meter **	15 watt per m	15 watt per m	0,35 kg	G

\*Actual power consumption \*\* Maximum possible lengths

## FLEX STRIP OPAL SHAPE DIGITAL 2G

SPI



## TECHNICAL DATA

IP classification	<b>IP65</b> For outdoor use
Power source	24 VDC
Electrical connection	1x cable 3-Pin to open wires, 30 cm
Maximum quantity per power input	5 m
Average lifetime*	50,000 h at L80/B10
Operating temperature range	-10 °C to +45 °C
Dimensions	ø23 mm
Min. bending radius	200 mm
Cuttable	All 7,14 cm (only by PROLED)

\*With correct installation and a suitable thermal management.

## PHOTOMETRIC DATA

LED type	SMD RGB 3-in-1 LEDs
Luminous flux	<ul style="list-style-type: none"> <li>● 80 lumen per m</li> <li>● 320 lumen per m</li> <li>● 50 lumen per m</li> <li>○ 190 lumen per m</li> <li>R+G+B (white) 450 lumen per m</li> </ul>
Wave length	<ul style="list-style-type: none"> <li>● 620 nm</li> <li>● 525 nm</li> <li>● 470 nm</li> </ul>
Beam angle	360°

Due to conditions of production photometric data can vary from production batch to production batch within the EU directive.

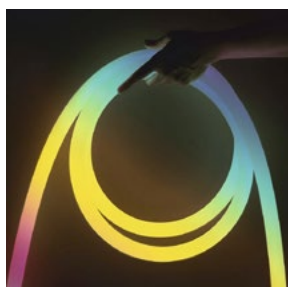
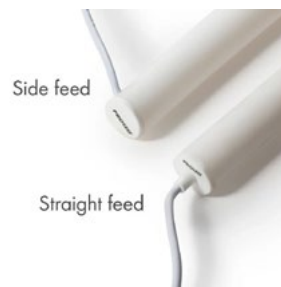
## PRODUCT TYPES

ORDER CODE	POWER INPUT	COLOUR	LENGTH	LED PCS	LED POWER	POWER CONSUMPTION*	WEIGHT
<b>L6OP70SEGS</b>	side feed	RGB	500 cm	840	80 watt	80 watt	2,5 kg
<b>L6OP70SEG</b>	straight feed	RGB	500 cm	840	80 watt	80 watt	2,5 kg

Custom length. See website for more information on special lengths and customisation.

<b>L6OP70SEGSZ</b>	side feed	RGB	per meter (max. 5 m)	168 per m	16 watt per m	max. 16 watt per m	0,5 kg
<b>L6OP70SEGZ</b>	straight feed	RGB	per meter (max. 5 m)	168 per m	16 watt per m	max. 16 watt per m	0,5 kg

\*Actual power consumption





# PIXEL SHEET FXP-RGBW

SPI



## TECHNICAL DATA

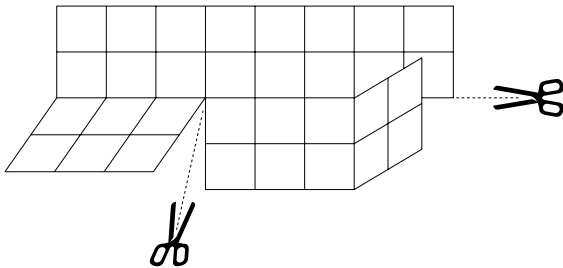
IP classification	IP20
Power source	24VDC
Electrical connection	Utilizing HRB terminals and PH terminal wiring to separate signal input from the power supply.
Maximum quantity per power input	4 pcs.
Average lifetime*	50,000h at L80/B10
Operating temperature range	-20 °C to +60 °C
Product size	480x240 mm
LED quantity	256 pcs.
Minimum cuttable size	60x60 mm

\*With correct installation and a suitable thermal management.

## PHOTOMETRIC DATA

LED type	SMD RGB 5050 + SMD 2835
Luminous flux	<ul style="list-style-type: none"> <li>● 76 lumen per m</li> <li>● 206 lumen per m</li> <li>● 48 lumen per m</li> <li>○ 262 to 282 lumen per m</li> <li>R+G+B+W 597 to 622 lumen per m</li> </ul>
Wave length	<ul style="list-style-type: none"> <li>● 620 nm</li> <li>● 525 nm</li> <li>● 470 nm</li> </ul>
Colour temperature	White 2700K, 3000K, 4000K, 6500K
CRI	90+
Beam angle	120°

Due to conditions of production photometric data can vary from production batch to production batch within the EU directive.



## PRODUCT TYPES

ORDER CODE	COLOUR	SIZE	POWER-SOURCE	LED POWER	POWER CONSUMPTION *
t.b.a.	RGBW 2700K	480x240mm	24VDC	25 watt	25 watt
t.b.a.	RGBW 3000K	480x240mm	24VDC	25 watt	25 watt
t.b.a.	RGBW 4000K	480x240mm	24VDC	25 watt	25 watt
t.b.a.	RGBW 6500K	480x240mm	24VDC	25 watt	25 watt

\*Actual power consumption

SIGNAGE MODULE SMX RGBW

SPI



TECHNICAL DATA

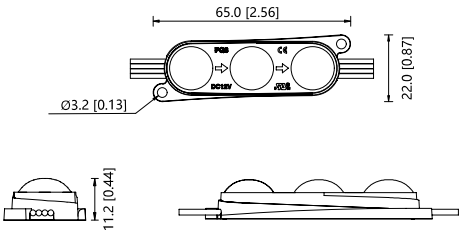
IP classification	IP68
Power source	12 VDC
Maximum quantity per power input	30 pcs.
Average lifetime*	50,000 h at L80/B10
Operating temperature range	-20 °C to +60 °C
Module size (L x W x H)	65 x 22 x 11,2 mm
Chain length	6,410 mm
Cable between modules	122 mm
LED quantity	3 pcs.
Minimum cuttable size	1 module

\*With correct installation and a suitable thermal management.

PHOTOMETRIC DATA

LED type	SMD RGBW 5050
Luminous flux	● 2 lumen per module ● 6 lumen per module ● 1 lumen per module ○ 10 lumen per module R+G+B+W 19 lumen per module
Wave length	● 620 nm ● 525 nm ● 470 nm
Colour temperature	White 6500 K
CRI	80+
Beam angle	150°

Due to conditions of production photometric data can vary from production batch to production batch within the EU directive.



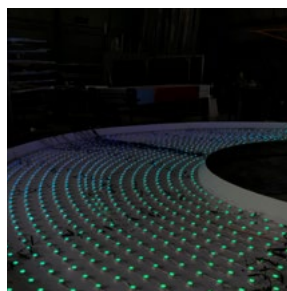
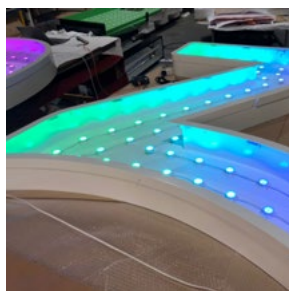
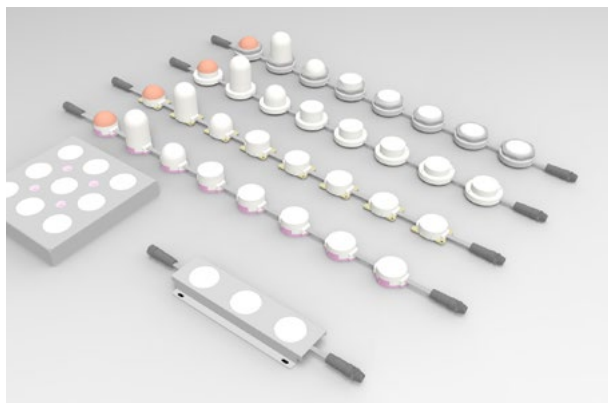
PRODUCT TYPES

ORDER CODE	COLOUR	CHAIN LENGTH	POWER-SOURCE	LED POWER	POWER CONSUMPTION*
t.b.a.	RGBW 6500K	30 modules	12 VDC	24 watt	24 watt

\*Actual power consumption

## LED CTRL PUX

SPI-R



## TECHNICAL DATA

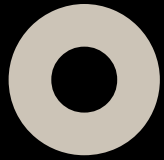
IP classification	IP67
Power source	24VDC
Colours	RGBW, RGBA, RGB, DW, White
Colour temperature	2700K, 3000K, 3500K, 4000K
Maximum quantity per power input	PUX 6: max. 50 PUX 9: max. 30
Average lifetime*	50,000 h at L70
Operating temperature range	-20 °C to +50 °C
Dimensions	ø40 x 13 mm
Pixel pitch	70 – 350 mm

\*With correct installation and a suitable thermal management.

## PRODUCT TYPES

ORDER CODE	TYPE	COLOUR	SIZE	POWER PER PUX
t.b.a.	9 LED	W/RGB	ø40 mm	2,25 W
t.b.a.	9 LED	RGBW	ø40 mm	2,5 W
t.b.a.	6 LED	W/RGB	ø40 mm	1,5 W
t.b.a.	6 LED	RGBW	ø40 mm	1,8 W





# LIGHTING SOLUTIONS

Ready to install: For projects requiring complete lighting installations, our DIGITAL PIXEL luminaires offer ready-to-install solutions. Easily integrated into architectural facades, signage and more, they provide a reliable base for creative lighting designs.

With customisable modules and easy adaptability, they are ideal for bespoke applications. From large scale installations to high impact projects, DIGITAL PIXEL delivers reliable and dynamic lighting results.



## LED CTRL BXS10



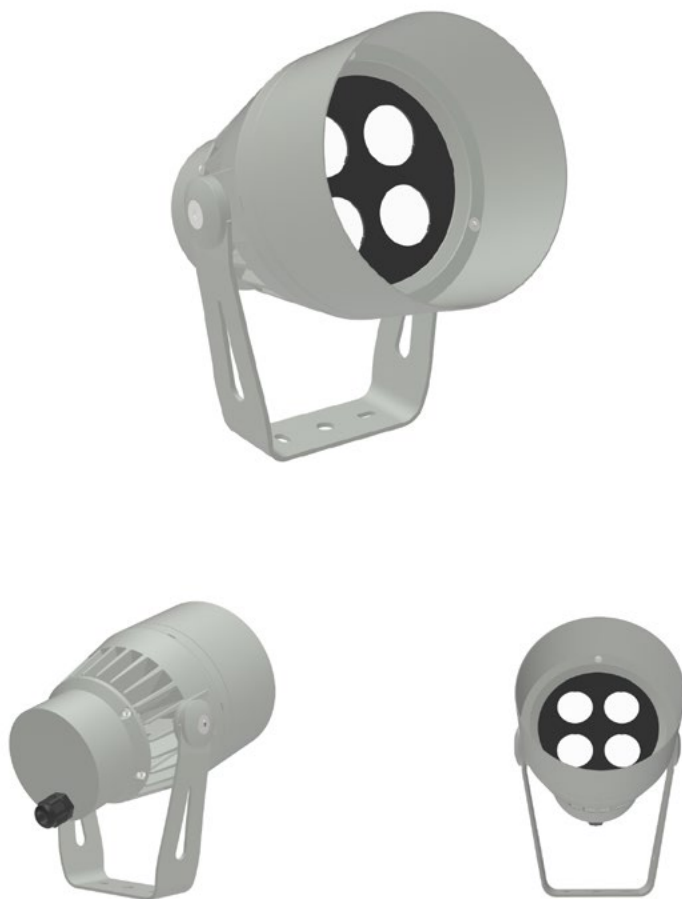
## TECHNICAL DATA

Voltage	24 VDC (Remote power supply)
Colours	White, DW, RGB, RGBW, RGBA
Colour temperature	2400K, 2700K, 3000K, 3500K, 4000K, 5000K, 6000K
LED type	High Power LED – 1 pc
Wattage	10 watt
CRI	82/92
Optics	Symmetric: 10°, 25°, 40° Asymmetric: 20x40°, 10x35°, 10x60°, 30x60°
Control	SPI, DMX with RDM addressing, DALI or PWM dimming via remote control
Connection	5-Pin DMX/3-Pin SPI/2-Pin single colour
Construction	Anodised aluminium, with tempered glass
IP classification	IP66
IK rating	IK07
Storage temperature	-20 °C to +70 °C
Operating temperature range	-20 °C to +50 °C
Weight	0.85 kg (non-hood option)
Dimensions	ø85 mm x 93 mm body without accessories
Certifications	CE, SAA, C-TICK (RCM), LM79, TM-21, IP66
Average lifetime*	50,000 hours with 70% lumen maintenance at 25 °C ambient temperature.

## PRODUCT TYPES

ORDER CODE	DESCRIPTION
t.b.a.	LED CTRL BXS10

## LED CTRL BXS30



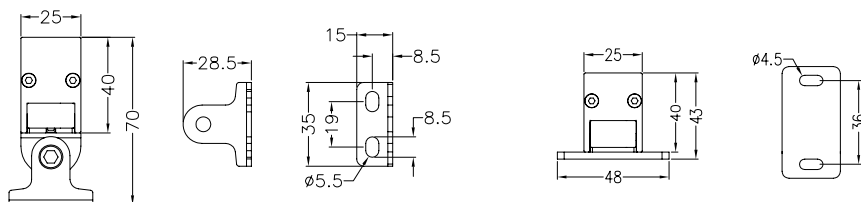
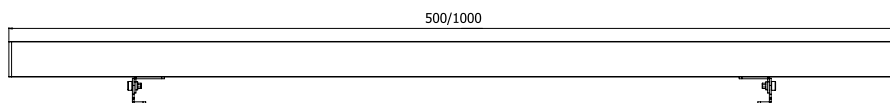
## TECHNICAL DATA

Voltage	100-240 VAC input – Integral PSU & RDM DMX
Colours	RGBWA, RGBW, RGBA, RGB, DW, White
Colour temperature	2400K, 2700K, 3000K, 3500K, 4000K, 5000K, 6000K
LED type	High Power LEDs – Quad chip
Wattage	30w
CRI	Standard >82 Pro >92
LED Qty	4 pcs
Optics	Symmetric: 10°, 25°, 40° Asymmetric: 20x40°, 10x35°, 10x60°
Control	DMX via RDM or SPI
Connection	6-Pin AC/DC IP connector
Construction	Die-cast aluminium
IP classification	IP66
IK rating	IK07
Storage temperature	-40 °C to +80 °C
Operating temperature range	-20 °C to +60 °C
Weight	3 kg
Dimensions	ø165 mm x 223 mm with bracket
Certifications	CE, SAA, C-TICH (RCM). LM79, TM-21

## PRODUCT TYPES

ORDER CODE	DESCRIPTION
t.b.a.	LED CTRL BXS30

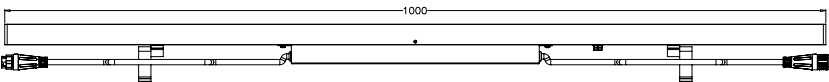
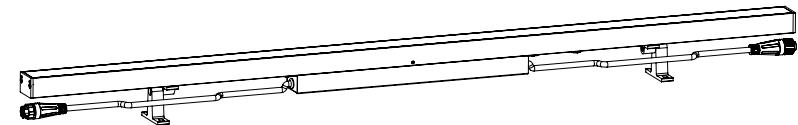
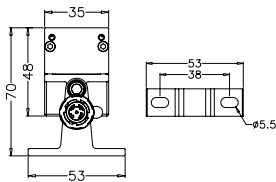




Voltage	24VDC (Remote power supply)
Colours	White, DW , RGB
Colour temperature	2400K, 2700K, 3000K, 3500K, 4000K, 5000K, 6000K
LED type	Low Power LEDs
Wattage	24 w/m
Beam angle	25°, 40°, 20 x 40° – White, 40° Trichip RGB & White
Control	DMX (RDM), SPI, PWM
Connection	5-Pin DMX, 3-Pin SPI, 2-Pin single colour
Construction	Anodised aluminium, with tempered glass
IP classification	IP66
IK rating	IK07
Storage temperature	-10 °C to +80 °C
Operating temperature range	-20 °C to +60 °C
Weight	1.6 kg/m
Dimensions (LxW x H)	500 or 1,000 x 25 x 70mm
Certifications	CE, SAA, C-TICK (RCM), LM79, TM-21, IP66
Average lifetime*	50,000 hours with 70% lumen maintenance at 25 °C ambient temperature.

ORDER CODE	DESCRIPTION
t.b.a.	LED CTRL BXG24

# LED CTRL BXG40



## TECHNICAL DATA

Voltage	100-240VAC
Colours	RGBW, RGB, White
Colour temperature	2400K, 2700K, 3000K, 3500K, 4000K, 5000K, 6000K
LED type	High Power LED
Wattage	1 m: 40w, 0.5 m: 20w
Optics	Symmetric: 15°/25°/40°/60° Asymmetric: 10x35°/10x60°/30x60°
Control	DMX with RDM addressing or self-addressing with data-redundant SPI.
Construction	Anodised aluminium, with tempered glass
IP classification	IP66
Storage temperature	-20 °C to +70 °C
Operating temperature range	-20 °C to +50 °C
Weight	1 m: 3.8 kg, 0.5 m: 1.9 kg
Dimensions (LxWxH)	1 m/0.5 m x 35 x 70 mm

## PRODUCT TYPES

ORDER CODE	DESCRIPTION
t.b.a.	LED CTRL BXG40



## LED CTRL BXG80



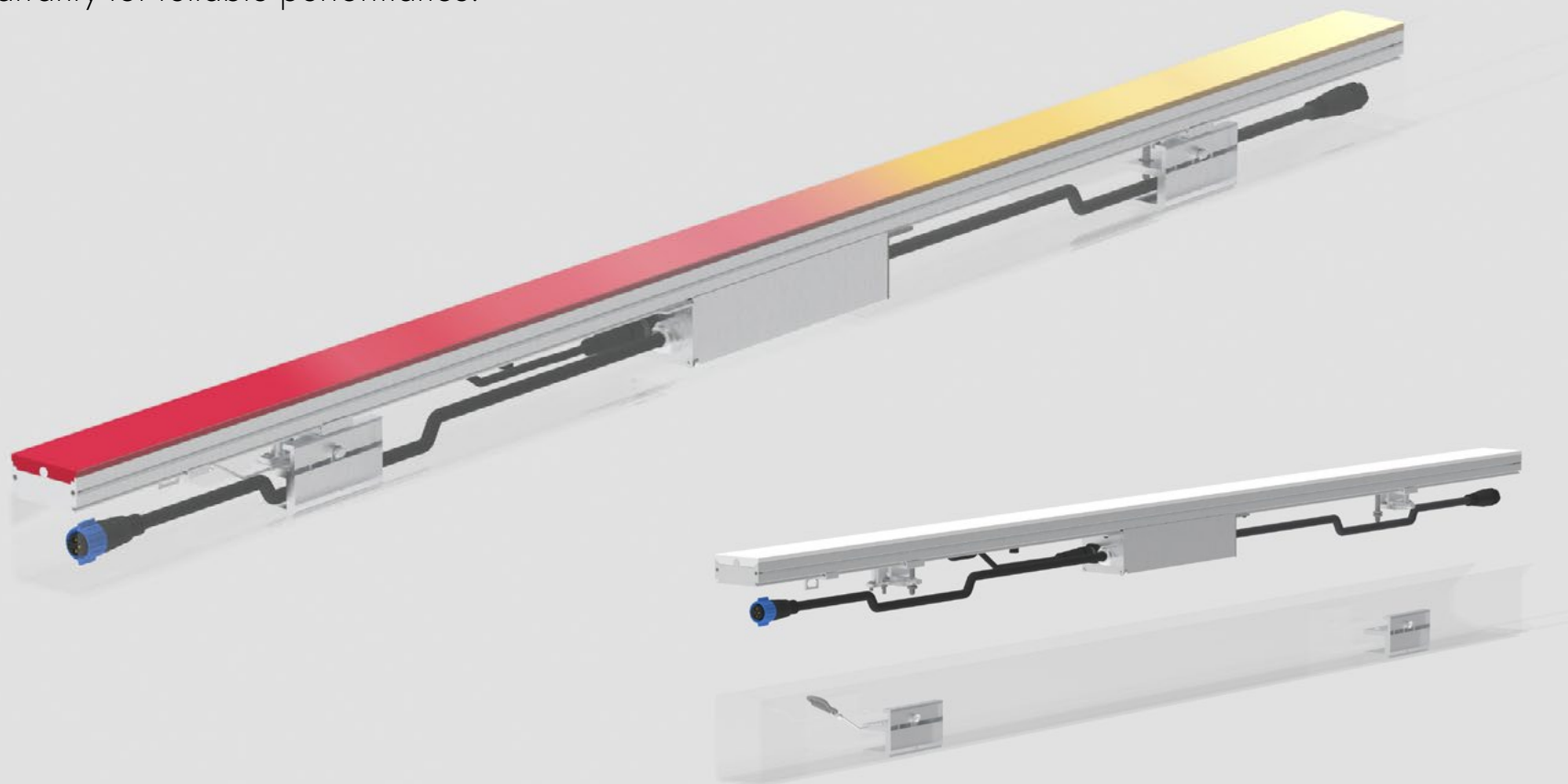
## TECHNICAL DATA

<b>Colour</b>	White: 2400K, 2700K, 3000K, 3500K, 4000K, 5000K, 6000K RGB, RGBW, RGBA Dynamic White: 2200K–5000K	<b>Lumen maintenance</b>	L80 @ 100,000 hrs
<b>Beam angle</b>	10°x 10°, 10°x 60°, 30°x 60°, 60°x 60°, Asymmetric wall wash (20° angle) – customisation available	<b>Finish</b>	Anodised brushed aluminium, corrosion resistant
<b>Optional glare control</b>	Louvre and shield	<b>Housing material</b>	Aluminium with 8mm tempered glass lens
<b>Maximum fixtures in series</b>	15 m (50') @ 120V, 30 m (100') @ 240/277VAC	<b>Operating temperature</b>	-40 °C to +50 °C (-40 °F to 122 °F)
<b>Total lumens</b>	693 lm (305 mm), 1386 lm (610 mm), 2,079 lm (915 mm), 2,772 lm (1220 mm)	<b>IP classification</b>	<b>IP66</b> Suitable for high-pressure cleaning
<b>Centre beam candela</b>	1,979 (RGBW, 10°x 60°, Full on)	<b>IK rating</b>	IK08
<b>Control</b>	SPI: Self-addressing SPI-R: Self-addressing with data redundancy DMX: Requires manual DMX addressing	<b>Fixture connectors</b>	Multipin IP68 connectors, end-to-end jumpers pre-attached to each fixture
<b>Mounting</b>	30° Swivel mount included 90° Swivel mount optional	<b>Warranty</b>	5 years
<b>Power consumption</b>	20 w (305 mm), 40 w (610 mm), 60 w (915 mm), 80 w (1220 mm)	<b>Weight</b>	1.35 kg (305 mm), 2.7 kg (610 mm), 4.05 kg (915 mm), 5.4 kg (1220 mm)
<b>Operating voltage</b>	100-277 VAC, 50/60 Hz	<b>Dimensions (LxWxH)</b>	305 mm, 610 mm, 915 mm, 1,220 mm
<b>Inrush current</b>	60 A, 317 µs	<b>Certifications</b>	IK08, IP66, EMC, SAA, 3G

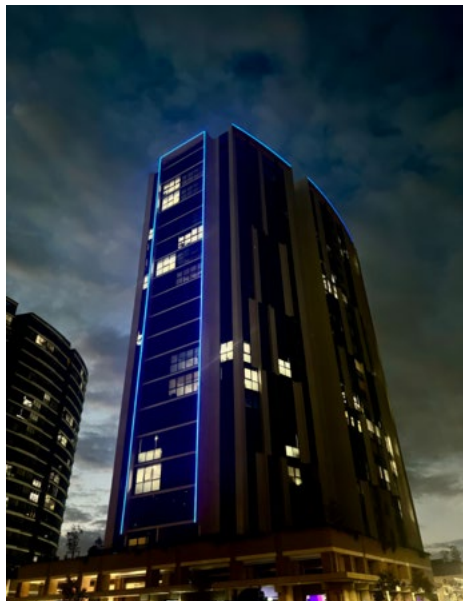
## PRODUCT TYPES

ORDER CODE	DESCRIPTION
t.b.a.	LED CTRL BXG80

The LXB LED linear bar range provides an efficient direct-view luminaire, designed for extended runs and harsh environments. Available in RGB, RGBW, and Dynamic White options, it supports lengths up to 96 meters per product with a resolution of 8 pixels per meter. Backed by a 5-year warranty for reliable performance.



## LED CTRL LXB



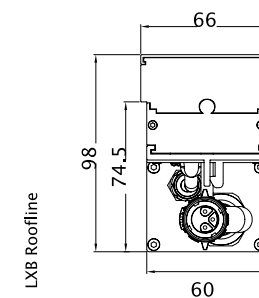
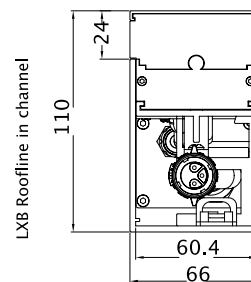
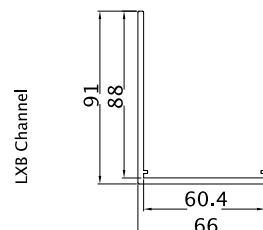
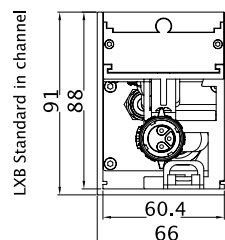
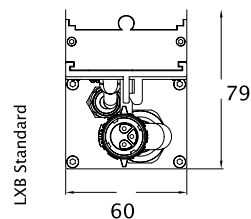
## TECHNICAL DATA

<b>Colour</b>	White: 2400K, 2700K, 3000K, 3500K, 4000K, 5000K, 6000K RGB, RGBW, RGBA Dynamic White: 2200K–5,000K
<b>Beam angle</b>	120° – Direct view
<b>LED type</b>	SMD LED – TRI-chip or Quad-chip (where applicable)
<b>Pixel density</b>	8 Pixels/m (customizable upon specification/request)
<b>Wattage</b>	14 w/m
<b>IP classification</b>	IP66
<b>Control</b>	SPI-R – self-addressing with data redundancy
<b>Mounting</b>	Straight, corner, or recessed, using mounting channel accessories.
<b>Power consumption</b>	20 w (305 mm), 40 w (610 mm), 60 w (915 mm), 80 w (1220 mm)
<b>Operating voltage</b>	100-277 VAC, 50/60 Hz Integral PSU
<b>Lumen maintenance</b>	L70 @ - 25 °C - 50,000 hrs

<b>Finish</b>	Anodised brushed aluminium, silver, black, white, and custom colours available.
<b>Housing material</b>	Aluminium & PMMA
<b>Operating temperature range</b>	-20 °C to +50 °C
<b>Fixture connectors</b>	Multipin IP68 connectors with end-to-end jumpers pre-attached to each fixture.
<b>Warranty</b>	5 years
<b>Certifications</b>	IP66, EMC, SAA
<b>Dimensions (L x W x H)</b>	1,500 x 45 x 93 mm

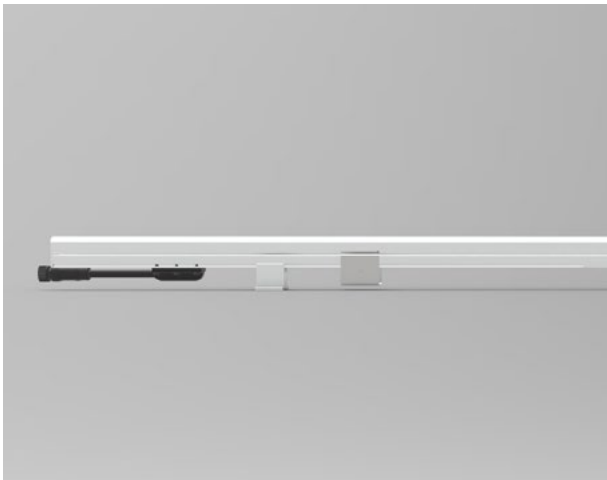
## PRODUCT TYPES

ORDER CODE	DESCRIPTION
t.b.a.	LED CTRL LXBA



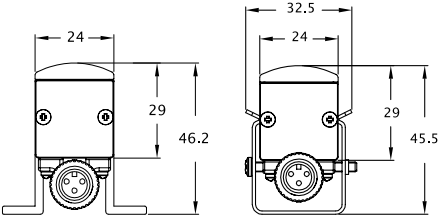
LED CTRL LXD8

SPI-R



TECHNICAL DATA

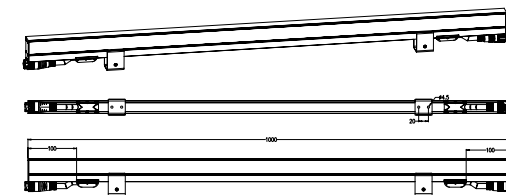
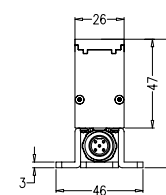
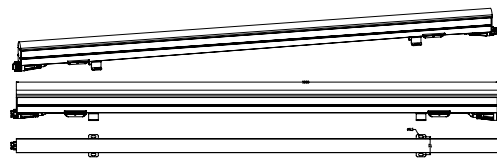
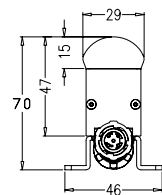
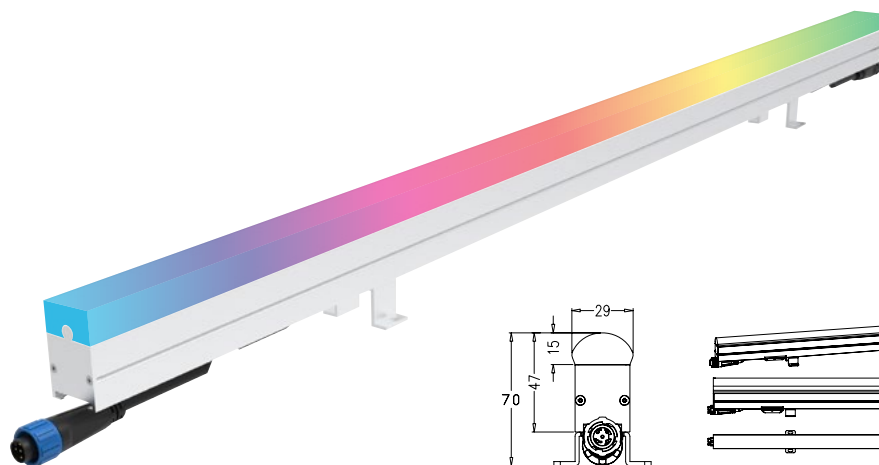
Power source	24 VDC remote PSU
Colours	RGBWA, RGBW, RGBA, RGB, Dynamic White (DW), White
Colour Temperature	2400 K, 2700 K, 3000 K, 3500 K, 4000 K, 5000 K, 6000 K
LED type	SMD LEDs
Wattage	14 w/m
Control	8 pixels/m SPI
Electrical connection	3-pin push-lock DC IP connector
IP classification	IP66
Housing construction	Aluminium extrusion with opal diffuser
Housing colour	Aluminum, custom RAL colours available
Storage temperature	-20 °C to +70 °C
Operating temperature range	-20 °C to +50 °C
Accessories	Base mount, clip mount
Weight	1.2 kg/m
Dimensions (L x W x H)	250, 500, 750, 1,000 x 24 x 45 mm



PRODUCT TYPES

ORDER CODE	DESCRIPTION
t.b.a.	LED CTRL LXD8

## LED CTRL LXM50



## TECHNICAL DATA

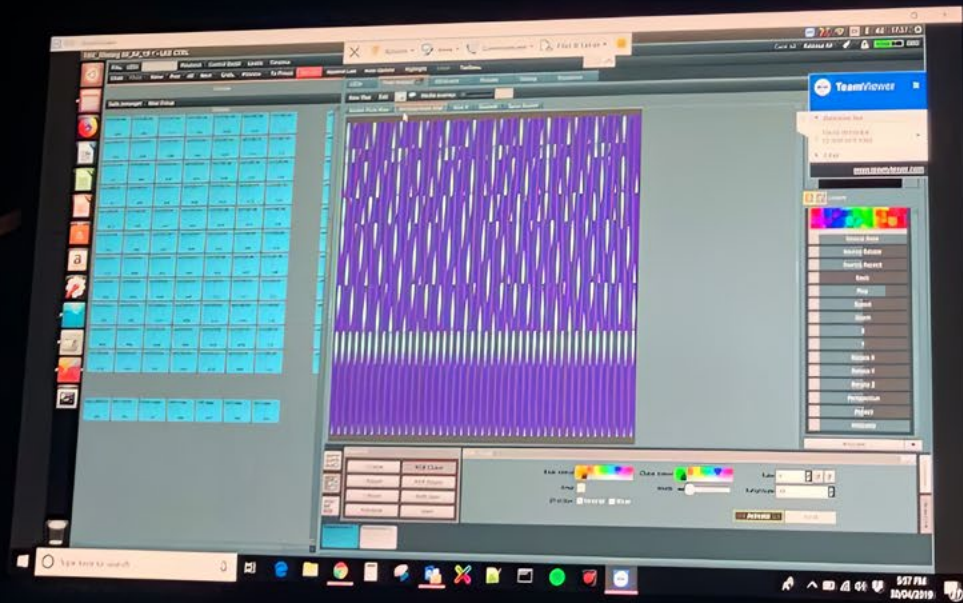
<b>Colours</b>	White: 4000K, 2700K, 3000K, 3500K, 4000K, 5000K, 6000K RGB, RGBW, RGBA Dynamic White: 2200K–5000K
<b>Beam angle</b>	Direct view
<b>Control</b>	DMX via RDM SPI – self-addressing
<b>Maximum quantity per power input</b>	20 m
<b>Total lumens</b>	250 mm, 500 mm, 750 mm, 1,000 mm 117 lm, 390 lm, 292 lm, 390 lm
<b>Diffuser</b>	Flat or dome
<b>Power consumption</b>	300, 500, 600, 900, 1000, 1200 mm 4.2 w, 7 w, 8.4 w, 12.6 w, 14 w, 16.8 w
<b>Mounting</b>	Channel mounting feet
<b>Operating voltage</b>	24 VDC, 48 VDC
<b>Lumen maintenance</b>	L70 - 50,000 hrs @ 25 °C
<b>Finish</b>	Anodised aluminium extrusion up to 50 px/m

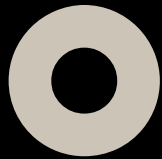
<b>Pixel density</b>	Up to 50 px/m
<b>Operating temperature range</b>	-20 °C to +50 °C (-40 °F to +122 °F)
<b>IP classification</b>	<b>IP66</b> Suitable for high pressure cleaning
<b>Certifications</b>	IP66, EMC
<b>Fixture connectors</b>	Multipin IP68 connectors with end-to-end jumpers pre-attached to each fixture.
<b>Warranty</b>	5 years
<b>Weight</b>	250 mm, 500 mm, 750 mm, 1,000 mm 0.5 kg, 1 kg, 1.5 kg, 2 kg
<b>Dimensions (LxWxH)</b>	L: 250 mm, 500 mm, 750 mm, 1,000 mm Dome W: 29 mm H: 70 mm Flat W: 26 mm H: 68 mm

## PRODUCT TYPES

ORDER CODE	DESCRIPTION
t.b.a.	LED CTRL LXM50







## CONTROL SYSTEMS & SOFTWARE

In collaboration with LED CTRL and DiGiDot, PROLED delivers advanced control systems and intuitive software designed to manage DIGITAL PIXEL installations with precision and ease. Compatible with industry-standard protocols such as DMX and ArtNet, the software supports a wide range of lighting scenarios, from simple to complex, offering ultimate flexibility to control your designs via PC, tablet, or smartphone.

The user-friendly software enables the creation of intricate animations and light shows while providing comprehensive control features tailored for architectural solutions, including time/date scheduling and BMS integration capability.

LED CTRL PX24



The PX24 pixel controller drives up to six universes of data on each of its four outputs, delivering a total of 24 universes of LED pixel control. It features easily accessible and removable screw terminal blocks for convenient setup and maintenance. Each pixel output is designed to handle substantial current loads and is equipped with Smart Electronic Fusing, eliminating the need to replace fuses and ensuring reliable operation.

TECHNICAL DATA

Power range	5-24 VDC
Pixel outputs	4 normal mode/expanded mode
Control input	Max 24 universes Art-Net/sACN
Output signal	SPI, SPI-R and DMX512
Output	4x 4-pole IP40 screw terminals, 4 outputs x 7A (total 28A) with optional clock data output
Aux output	1x RS485 input/output or DMX512
Operating temperature range	-20 °C to +70 °C
Dimensions (L x W x H)	126,5 x 119 x 42 mm
Weight	0,322 kg

PRODUCT TYPES

ORDER CODE	DESCRIPTION
L5138124	LED CTRL PX24





LED CTRL MX96 PRO



The MX96 is a high-performance pixel LED controller capable of transmitting up to 96 universes of data to 8 SX2/SX4 devices over distances of up to 300 meters. Ideal for professional installations, it excels in scenarios where LEDs need to be spaced apart over significant distances, providing reliable and precise control for complex lighting setups.

TECHNICAL DATA

Power range	110-240VAC
Control input	Ethernet RJ45 (E1.31/sACN)/Art-Net
Output signal	8x X-Data
Output	8x Ethernet (RJ45)
Aux output	DMX via 3-pin screw terminal, Micro SD card slot
Operating temperature range	-10 °C to +60 °C
Dimensions (L x W x H)	220 x 160 x 43 mm
Weight	1,1 kg

PRODUCT TYPES

ORDER CODE	DESCRIPTION
L5138112	LED CTRL MX96 PRO



# LED CTRL SX



When paired with an MX96PRO controller, the SX-Series receives differential (long-distance) data and converts it into a pixel-ready signal. This setup is perfect for professional installations, particularly in scenarios where LEDs need to be spaced apart over considerable distances, ensuring reliable and precise operation.

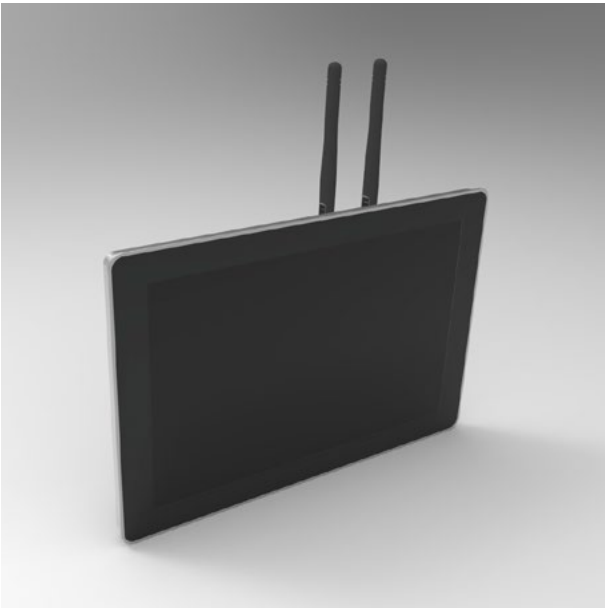
## TECHNICAL DATA

Power range	5-24 VDC
Control input	X-Data (RJ45 – Ethernet)
Output signal	SPI, SPI-R and DMX512
Output	2x 4-pole IP40 screw terminals 7.5 A x 2 outputs (total 15 A) with optional clock data output
Parameter	Max. 12 universes (6,144 channels) Max. 3,072 channels per output
Operating temperature range	-20 °C to +55 °C
Dimensions (L x W x H)	105 x 79 x 35 mm
Weight	0,14 kg

## PRODUCT TYPES

ORDER CODE	DESCRIPTION
L5138120	LED CTRL SX2
L5138122	LED CTRL SX4

LED CTRL CX STANDALONE



SPECIFICATIONS

- **Display:** 10" touchscreen
- **Video Output:** HDMI 2.0a
- **USB Ports:** 2x USB 3.0, 2x USB 2.0
- **Wireless Connectivity:** 802.11b/g/n/ac
- **Power Supply:** 5.1V/3A via USB-C
- **Mounting Options:** Table or wall mount

The CX Standalone controller is an all-in-one computing platform featuring an integrated touchscreen monitor. It is specifically designed to meet the unique demands of LED control projects, providing seamless and reliable operation for professional installations.

TECHNICAL DATA

Power range	5V/3A USB-C power supply
Control input	Art-Net (RJ45 – Ethernet)
Output signal	Art-Net
Output	RJ45
Dimensions (LxWxH)	197 x 115 x 44 mm
Weight	0,42 kg

PRODUCT TYPES

ORDER CODE	DESCRIPTION
t.b.a.	LED CTRL CX STANDALONE 10
t.b.a.	LED CTRL CX STANDALONE 24

## LED CTRL MINI



### SPECIFICATIONS

- **Processor:** 8th Gen Intel® Core™ i3-8109U
- **Graphics:** Iris® Plus Graphics 655
- **Memory:** 4GB RAM
- **Storage:** 128GB HDD
- **Connectivity:** HDMI 2.0a, 4x USB 3.1 Gen 2 ports, Bluetooth 5, Thunderbolt 3, MicroSD card reader
- **Power Input:** 110–240V AC

The CX LED Mini is an Intel NUC, specifically configured to meet the unique demands of LED control projects, providing seamless and reliable operation for professional installations.

### Operating System:

- Debian 11.0 Linux installed

### Software:

- LED CTRL software pre-installed
- HASP security installed

### Configured for:

- Reboot on power applied
- Weekly scheduled reboots
- Auto-load of last project
- Auto-load of unsaved backups
- Routine OS updates disabled

### TECHNICAL DATA

Power range	5V/3A power supply
Control input	Art-Net (RJ45 – Ethernet)
Output signal	Art-Net
Output	RJ45
Dimensions (LxWxH)	197 x 115 x 44 mm
Weight	0,42 kg

### PRODUCT TYPES

ORDER CODE	DESCRIPTION
t.b.a.	LED CTRL MINI

## LED CTRL SOFTWARE LICENCE

LED CTRL is purpose-built to address the entire project lifecycle, from pitching concepts to delivering projects and unleashing creative lighting design. Its features are designed to streamline workflows, making it a valuable tool for professionals at every stage.

During the **Pitch phase**, LED CTRL enables you to engage clients with powerful visualization capabilities. Photos or concept images can be imported, and pixels can be overlaid with complete freedom. Lighting concepts can be demonstrated in real-time or exported as pixel-accurate videos.

Time-saving tools such as auto-assignment of pixels to DMX addresses, easy copy, skew, rotate, and scale functions, and integrated Direct FX for creating effects without the need for custom media make concept development efficient and intuitive.

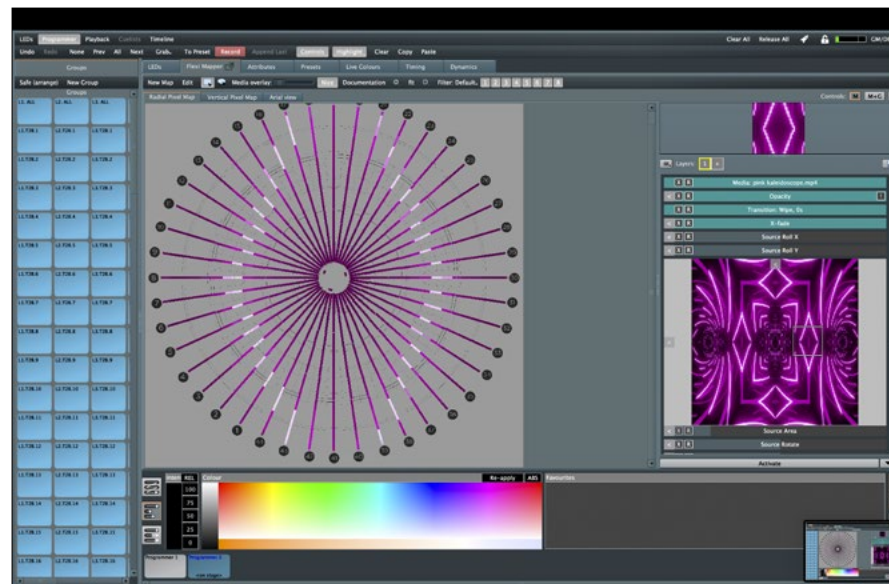
In the **Deliver phase**, LED CTRL provides a range of features designed to save technicians valuable time. These include CSV patch import/export, real-world size scaling, curved pixel maps, and automatic hardware detection and configuration. Comprehensive documentation, such as hardware configurations, cable length guidance, and annotation tools, can be generated effortlessly.

The simple playback function allows clients to take control from a PC, CX platform, or iPad, while password protection prevents accidental changes.

The **Create phase** unleashes your creative potential with intuitive, powerful programming tools. Users can develop stunning lighting effects with flexible workflows.

Traditional cues and cue lists allow precise coordination of sequences, while time and date scheduling enables full architectural lighting programming. LED CTRL bridges the gap between creative ideas and technical execution, offering a variety of programming methods and workflows to simplify even the most complex projects.





## SPECIFICATIONS

**Control Capabilities:** Up to 256 universes of direct control; up to 1024 universes of pixel mapping on a single CX compute platform

**Software Access:** Free demo version available for pitching and offline work, License key required for live output

**Outputs:** ArtNet, sACN, DMX512 (via converter), project documentation

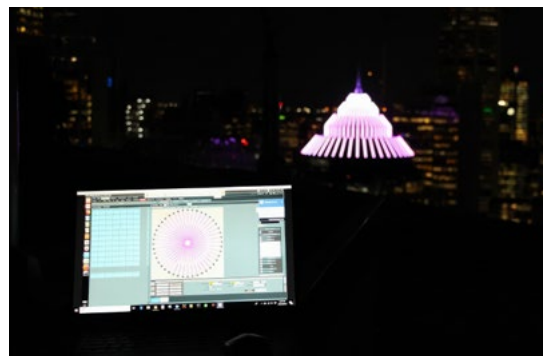
**Inputs:** Timecode, UDP triggers, OSC, NDI

**Operating Systems:** Available for Ubuntu 18.04, Windows 10, and macOS

**Recommended Hardware:**  
LED CTRL hardware for CX compute and DMX/SPI signal management for optimal software/hardware integration

**Device Compatibility:** Fully compatible with other standard ArtNet/sACN devices

**Remote Control:** Remote operability via TeamViewer or AnyDesk



- **Direct Control:** Precisely manage and control your pixels for ultimate accuracy and flexibility.
- **Direct FX:** Quickly generate a wide range of lighting effects or create custom effects using the in-built FX engine.
- **Media Generator:** Create and manipulate animated media effortlessly, without the need for external programs.
- **Pixel Mapping:** Map movies, GIFs, and images directly onto your pixel map with ease.



DIGIDOT C4 LIVE



TECHNICAL DATA

Power range	5–24 VDC
Control input	Art-Net (RJ45 – Ethernet)
Output signal	SPI or DMX
Output	Screw terminals
Operating temperature range	0 °C to +50 °C
Dimensions (L x W x H)	153 x 74 x 28 mm
Weight	0,14 kg



PRODUCT TYPES

ORDER CODE	DESCRIPTION	UNIVERSES / CHANNELS
L5136008	DiGidot C4 Live 8	8 universes (4,096 SPI channels) or 1,024 DMX channels
L5136012	DiGidot C4 Live 12	12 universes (6,000 SPI channels) or 1,024 DMX channels
L5136016	DiGidot C4 Live 16	16 universes (8,192 SPI channels) or 1,024 DMX channels

An upgrade to a higher number of universes/channels can take place later via the webshop of digidot.eu.

# DIGIDOT C4 EXTENDED



## TECHNICAL DATA

Power range	5–24 VDC
Control input	Art-Net (RJ45 – Ethernet)
Output signal	SPI or DMX
Output	Screw terminals
Operating temperature range	0 °C to +50 °C
Dimensions (L x W x H)	153 x 74 x 28 mm
Weight	0,14 kg

## PRODUCT TYPES

ORDER CODE	DESCRIPTION	UNIVERSES / CHANNELS
L5136101	DiGidot C4 Extended 1	1 universe (512 SPI channels) or 512 DMX channels
L5136102	DiGidot C4 Extended 2	2 universes (1,024 SPI channels) or 1,024 DMX channels
L5136104	DiGidot C4 Extended 4	4 universes (2,048 SPI channels) or 1,024 DMX channels
L5136108	DiGidot C4 Extended 8	8 universes (4,096 SPI channels) or 1,024 DMX channels

An upgrade to a higher number of universes/channels can take place later via the webshop of digidot.eu.

DIGIDOT PXLNET TRANSMITTER/TRANSCEIVER



DIGIDOT PXLNET TRANSMITTER

Power range	5-24 VDC
Outputs	4 (4x RJ45 – Ethernet)
Operating temperature range	0 °C to +50 °C
Dimensions (L x W x H)	65 x 65 x 20 mm
Weight	0,07kg

DIGIDOT PXLNET TRANSCEIVER MODULE

Power range	5-48 VDC (via soldering pads)
Control input	1 (RJ45 – Ethernet)
Output signal	SPI signal (via soldering pats)
Operating temperature range	0 °C to +50 °C
Dimensions (L x W x H)	45 x 15 x 13 mm
Weight	0,01 kg

PRODUCT TYPES

ORDER CODE	DESCRIPTION
L5136200	DiGidot PxLNet transceiver set 5-24 V (DiGidot PxLNet transmitter + 4x DiGidot PxLNet transceiver module)
L5136201	DiGidot PxLNet transmitter

Required accessories:



L5136202	DiGidot PxLNet transceiver module RJ45 version
L5136203	DiGidot PxLNet transceiver module screw terminal version
L5136204	DiGidot PxLNet transceiver module soldering pads version

An upgrade to a higher number of universes/channels can take place later via the webshop of digidot.eu.

# DIGIDOT PXLNET NODE



### TECHNICAL DATA

Power range	100-250 VAC
Control input	Art-Net (RJ45 – Ethernet)
Output signal	SPI or DMX
Output	16x RJ45 Transceivers need to be ordered separately.
Operating temperature range	0 °C to +50 °C
Dimensions (LxWxH)	441 x 300 x 43 mm
Weight	2,45 kg

### PRODUCT TYPES

ORDER CODE	DESCRIPTION	UNIVERSES / CHANNELS
L5136210	DiGidot PxLNet node U48	48 universes (20,576 SPI channels or 8,192 DMX channels)
L5136212	DiGidot PxLNet node U96	96 universes (49,152 SPI channels or 8,192 DMX channels)

Required accessories:



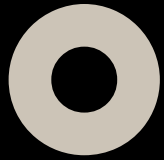
L5136202	DiGidot PxLNet transceiver module RJ45 version
L5136203	DiGidot PxLNet transceiver module screw terminal version
L5136204	DiGidot PxLNet transceiver module soldering pads version

An upgrade to a higher number of universes/channels can take place later via the webshop of digidot.eu.



BY PROLED





# ACCESSOIRES

High quality components: Our range of accessories ensures easy installation and reliable operation for projects of all sizes. Designed to simplify setup and enhance durability, our accessories integrate seamlessly with existing lighting systems, from mounting systems to cables and power supplies. These high quality components offer seamless integration, reliable performance and long life for your DIGITAL PIXEL projects.

## SUPPORTING YOU EVERY STEP OF THE WAY

**Programming:** Our programming experts ensure that your DIGITAL PIXEL systems are perfectly aligned with your vision. From initial setup to customisation, we provide precise programming for flawless effects, sequences and animations.

**Customisation:** Tailored solutions include custom LED strips, modules and control systems to meet your project's requirements, offering flexibility and seamless integration.

**After sales services:** We offer reprogramming, maintenance and technical support to keep your installations running smoothly. Training courses enable your team to maximise the potential of your DIGITAL PIXEL systems.

**Bespoke solutions:** No project is too unique for PROLED. From customised aluminium profiles and plastic covers to FLEX STRIPS with custom lengths and plug-and-play units, we deliver bespoke solutions that perfectly match your creative vision. Contact our team for a personalised quote.

**For more information about our services visit [proled.com](https://proled.com)**



“We are transforming  
the way the world sees  
light.”

**Patrick Slechten, Group CEO, PROLED GROUP**



## OUR MISSION IS GOOD LIGHT

MBN GmbH was founded in 1988 by Bernd Menrad as a company for technical and lighting event technology. Since 2005, the PROLED brand has been one of the leading German companies in the development and production of LED lighting.

As an LED pioneer, PROLED has worked tirelessly on the further development of this technology. With a wide range of lighting products from innovative LED strips and profiles to indoor and outdoor luminaires and intelligent control systems for modern and convenient lighting management, PROLED covers the retail, hospitality, wellness, public and office sectors worldwide.



## CRAFTING EXCELLENCE IN LED LIGHTING



### ● Photometry laboratory

At PROLED we believe that exceptional lighting starts with exceptional technology, which is why we invest in our state-of-the-art photometric laboratory. Here we rigorously test and evaluate each product to the highest standards, measuring parameters such as power consumption, luminous flux, spectrum, colour temperature, colour rendering, flicker-free operation and glare to ensure impeccable performance and reliability.



### ● Configurations

PROLED tailors solutions to your exact requirements. From custom lengths of FLEX STRIPS, TUBES and OPAL to precisely cut and finished aluminium profiles, we ensure that each product integrates seamlessly into your project. With plug and play options, soldered cables and IP67 sealed components, we deliver convenience, durability and professional results that bring your vision to life.



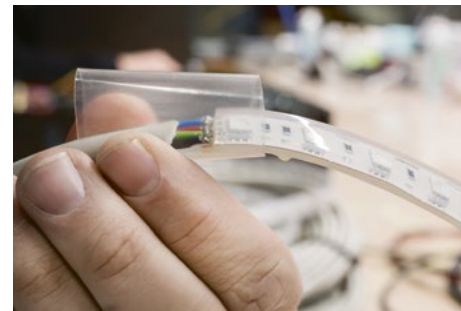
### ● IP tests and quality assurance

We ensure that all outdoor and under-water products are rigorously tested for their intended environments. Standardised leak and stress tests verify IP ratings and durability to ensure reliable performance. For in-ground installations, we assess point and distributed load capacities to ensure long-term safety and functionality.



### ● Photometric configurator

Our photometric configurator provides reliable data for your lighting calculations. Whether you're working with LED strips, profiles, reflectors, sliding bases or covers, the configurator ensures accurate planning and execution across all combinations and lengths.



### ● Everything from a single source

PROLED offers complete services under one roof, from R&D to manufacturing and support. Centrally managed from our head office, this approach ensures fast delivery, efficient communication and consistent high quality. Most products come with a 5 year warranty, giving you peace of mind and long-term reliability.



## STRONG PARTNERSHIP FOR SEAMLESS CONTROL



PROLED and LED CTRL have joined forces to combine state-of-the-art DIGITAL PIXEL LED technology with advanced control solutions. This partnership creates a seamless, intuitive product for dynamic light shows, animations and precise accent lighting.

LED CTRL's DMX and ArtNet compatible systems provide flexible control via PC, tablet or smartphone. Together, we deliver powerful, easy-to-use tools for sophisticated designs - from facades to immersive events.

With exceptional precision, versatility and reliability, our DIGITAL PIXEL solutions set new standards and open up exciting new possibilities in modern lighting.

## GET IN TOUCH WITH US

Contact us to discover how Pixel LED solutions can elevate your work. Whether you need consultation, have questions, or require support, don't hesitate to reach out to your nearest office.

### GERMANY

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MBN GmbH  
Balthasar-Schaller-Str. 3  
86316 Friedberg  
Germany

**proled.com**

### AUSTRIA

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PROLED AUSTRIA Vertriebs GmbH  
Edisonstr. 2  
4600 Wels  
Austria

**proled.at**

### BELUX

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UNI-BRIGHT nv  
Belcrownlaan 13 Q  
2100 Antwerpen  
Belgium

**unibright.be**

### FRANCE

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PROLED France  
27, Boulevard Victor Hugo  
31770 Colomiers  
France

**proled.fr**





**PROLED<sup>®</sup>**

LIGHT. EMOTION. DESIGN.