



ASTEL
LIGHTING

ARCHITECTURAL LIGHTING
2020

ASTEL LIGHTING

The company ASTEL d.o.o. was established in 1991 and has been one of the leading European manufacturers of video surveillance equipment for over a decade. Experiences in the field of security and GSM alarm systems led to the development and production of electronic marine equipment that provides a high level of safety and dependability of operation. The ASTEL LIGHTING brand name was launched in 2009 as the result of very well accepted underwater marine lighting products fitted in luxury yachts.

The SPARK, SOLEA, SIGMA, SOMBRA, VOLCANO, CASCADA series of the new world's first modular outdoor LED lights and similar models of compact outdoor LED lights as well as UFO series are designed with built-in drivers to use the latest LED lighting technology. The main feature of modularity allows the lights to be assembled from numbers of standard assemblies to achieve unique design and appearance of the complete line of outdoor LED lights installed around buildings and gardens.

The ALOA series of a very robust bollard garden LED light is designed with Direct-Drive LED mains power supply for advanced optical propagation technology with reflective lighting.

The ARCUS, INTENSA and ASTRA series of compact LED lights with electronic driver built-in waterproof casings are designed by using high-power LEDs with built-in microprocessor which enables network connections and remote control with digital dimming. The multi-color RGBW versions allow the best illumination quality of different white lighting (CRI 97) and microprocessor-controlled changing of white and all other colors of lighting manually or automatically through the complete rainbow spectrum. Due to wide range of prestige massive face shapes made of aluminium or stainless steel the lights are suitable to fit on luxury designed interiors and exteriors.

The QUADRO series of modular interior LED light with Direct-Drive LED mains power supply and combinations of different painted steel or natural stone veneer screens is designed to achieve unique modern design and appearance of the complete line of interior lights.

The basic Direct-Drive LED Array Panel with combinations of different assemblies made of translucent natural stone veneer allows the formation of different configurations and structures to achieve unique appearance of interior floor, wall and ceiling lights of SPEIRA and LAENA series.

The compact OLED (Organic LED) modular interior light of VERSA series with electronic driver built-in anodized aluminium casing are designed with different mounting assemblies for creating unique configurations and structures. Built-in ASTEL protocol enables complete DMX512 lighting control by using optional interfaces. Advanced lighting technology allows perfect light spreading and the best illumination quality (CRI 90) with two different color temperature options.

Built-in microprocessor enables network connections and complete lighting control by using of optional interfaces.

Simply..the brightest

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Path LED Lights

Modular design with different light engines, heights and beams.

Single-color or multi-color RGB light control with dimming and changing the color of lighting manually or automatically through the complete rainbow spectrum by using optional momentary switch or optional DMX512 interface LXU01 with built-in ASTEL protocol.

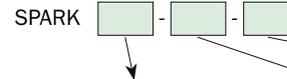


- Aluminium Based
- Sand-Blasting and Anodizing E6CO Finishing/Painting
- High Grade PMMA Glass Optical Window

SPARK

- Modular Aluminium Casing
- Sand-Blasting and Anodizing E6CO Finishing
- 1, 2 or 3 High-Power LEDs Design
- Warm White, Daylight White, Cool White, Blue, Green, Red, Multi-Color RGB or Multi-Color RGBW Lighting
- High Grade PMMA or Polycarbonate Glass Optical Window
- Vacuum Metalized Reflector or High-Efficiency Lens
- Remote Control
- Digital Dimming
- Built-in ASTEL Protocol for DMX512 Control
- Polarity Protection
- Transient Protection
- Thermal Protection
- Low Power Consumption
- Simple Installation

Ordering Code:



Engine		N	M	W	Tube	B	Beam	
ENGWW	1			-	LTH90	-	LBDB	-
ENGDW	2			W	LTH190		LBRL	W
ENGCW	3			W	LTH490	B	LBRL	B
	4				LTH790		LBRL	
	5				LTHCH		LBRL	
ENGR	1							
ENGG	2							
ENGB	3							
ENGRGB								
ENGRGBW								

Example: SPARK ENGWW3M-LTH790-LBRH

BEAM assembly

Material	Anodized aluminium and PMMA glass
Dimensions	<ul style="list-style-type: none"> ∅100 x 115 mm (LBRD) ∅100 x 115 mm (LBRH) ∅100 x 70 mm (LBRL) ∅100 x 7 mm (LBDB)
Weight	<ul style="list-style-type: none"> 0.6 kg (LBRD) 0.4 kg (LBRH) 0.5 kg (LBRL) 0.2 kg (LBDB)

Beam	Description
LBRD	High profile down-reflective beam 105mm, neutral
LBRH	High profile side-reflective beam 105mm, neutral
LBRL	Low profile side-reflective beam 60mm, neutral
LBDB	Direct no reflective beam 5mm, neutral
LBRDW	High profile down-reflective beam 105mm, white
LBRHW	High profile side-reflective beam 105mm, white
LBRLW	Low profile side-reflective beam 60mm, white
LBDBW	Direct no reflective beam 5mm, white
LBRDB	High profile down-reflective beam 105mm, black
LBRHB	High profile side-reflective beam 105mm, black
LBRLB	Low profile side-reflective beam 60mm, black
LBDBB	Direct no reflective beam 5mm, black

Path LED Lights



Colour of lightning	Description
ENGWW	Warm White
ENGDW	Daylight White
ENG CW	Cool White
ENGR	Red
ENGG	Green
ENGB	Blue
ENGRGB	Red + Green + Blue
ENGRGBW	Red + Green + Blue + Warm White

No. of LEDs	Description
1	1 LED
2	2 LEDs
3	3 LEDs
4	3 High-Intensity LEDs
5	3 High-Intensity LEDs

Beam	Description
N	Narrow Beam
M	Medium Beam
W	Wide Beam

Colour of casing	Description
-	Neutral
W	White
B	Black

- Aluminium Casing
- Sand-Blasting and Anodizing E6C0 Finishing/Painting



LTH790



LTH490



LTH190



LTH90

- Aluminium Based
- Sand-Blasting and Anodizing E6C0 Finishing/Painting

ENGINE assembly

Power supply	12 - 24 Vdc, max. 260 mA/12 Vdc or 135 mA/24 Vdc (1 LED) 12 - 24 Vdc, max. 500 mA/12 Vdc or 260 mA/24 Vdc (2 LEDs) 12 - 24 Vdc, max. 800 mA/12 Vdc or 420 mA/24 Vdc (3 LEDs) 12 - 24 Vdc, max. 950 mA/12 Vdc or 500 mA/24 Vdc (3 High-Intensity LEDs) 15 - 24 Vdc, max. 1.200 mA/24 Vdc (3 High-Intensity LEDs) 12 - 24 Vdc, max. 600 mA/12 Vdc or 300 mA/24 Vdc (RGB) (N) 12 - 24 Vdc, max. 650 mA/12 Vdc or 350 mA/24 Vdc (RGB) (M/W) 12 - 24 Vdc, max. 800 mA/12 Vdc or 400 mA/24 Vdc (RGBW) (N) 12 - 24 Vdc, max. 650 mA/12 Vdc or 350 mA/24 Vdc (RGBW) (M/W)
Beam angle	12°(N), 30°(M), 80°(W) (1 LED) 20°(N), 36°(M), 120°(W) (2 LEDs) 12°(N), 30°(M), 80°(W) (3 LEDs) 15°(N), 40°(M), 120°(W) (RGB) 15°(N), 40°(M), 120°(W) (RGBW)
Optical window	High-grade polycarbonate glass
Luminous flux	max. 270 lm (1 LED) max. 500 lm (2 LEDs) max. 700 lm (3 LEDs) max. 1.400 lm (3 High-Intensity LEDs) max. 3.000 lm (3 High-Intensity LEDs) max. 190 lm (RGB) (N) max. 400 lm (RGB) (M/W) max. 330 lm (RGBW) (N) max. 550 lm (RGBW) (M/W)
Operating temperature	-10°C - +40°C
Casing	Anodized aluminium
Protection	IP 67
Dimensions	Ø86 x 68 mm (ordering code 2: 1, 2, 3, 4) Ø86 x 153 mm (ordering code 2: 5)
Weight	0.6 kg (ordering code 2: 1, 2, 3, 4) 1.7 kg (ordering code 2: 5)

TUBE assembly

Material	Anodized aluminium
Dimensions	Ø100 x 95 mm Ø100 x 195 mm Ø100 x 495 mm Ø100 x 795 mm Ø100 x C mm (customized)
Weight	0.6 kg (90) 0.9 kg (190) 1.7 kg (490) 2.4 kg (790)

Tube	Description
LTH90	Tube height 90mm, neutral
LTH190	Tube height 190mm, neutral
LTH490	Tube height 490mm, neutral
LTH790	Tube height 790mm, neutral
LTHCH	Tube height customized, neutral
LTH90W	Tube height 90mm, white
LTH190W	Tube height 190mm, white
LTH490W	Tube height 490mm, white
LTH790W	Tube height 790mm, white
LTHCHW	Tube height customized, white
LTH90B	Tube height 90mm, black
LTH190B	Tube height 190mm, black
LTH490B	Tube height 490mm, black
LTH790B	Tube height 790mm, black
LTHCHB	Tube height customized, black

Path LED Lights

Compact design with different light engines, heights and beams.
Single-color or multi-color RGB light control with dimming and changing the color of lighting manually or automatically through the complete rainbow spectrum by using optional momentary switch or optional DMX512 interface LXU01 with built-in ASTEL protocol.



- Compact Aluminium Casing
- Sand-Blasting and Anodizing E6CO Finishing/Painting
- 1 High-Power LED Design
- Warm White, Daylight White, Cool White, Blue, Green, Red, Multi-Color RGB or Multi-Color RGBW Lighting
- High Grade PMMA or Polycarbonate Glass Optical Window
- Vacuum Metalized Reflector or High-Efficiency Lens
- Remote Control
- Digital Dimming
- Built-in ASTEL Protocol for DMX512 Control
- Polarity Protection
- Transient Protection
- Thermal Protection
- Low Power Consumption
- Simple Installation

SPARK 0110

Power supply	12 - 24 Vdc, max. 130 mA
Lens angle	12° (N), 30° (M), 80° (W)
Optical window	High Grade Polycarbonate Glass
Luminous flux	max. 130 lm
ASTEL protocol default address	1
Operating temperature	-10° C - +50° C
Casing	Anodized Aluminium
Protection	IP 66
Dimensions	max. Ø60 x 600 mm
Weight	max. 1.2 kg

Ordering Code:

SPARK [] - [] - [] - []

	Engine	Tube	Beam
0110	WW	N	LCBDB
	DW	M	LCBRL
	CW	W	LCBRH
	R		LCBRD
	G		
	B		
	RGB		
	RGBW		

Example: SPARK 0110-RGBWN-LTH67-LCBRH

Model	Description
0110	1 High-Power LED, neutral
0110W	1 High-Power LED, white
0110B	1 High-Power LED, black

Color of lighting	Description
WW	Warm White
DW	Daylight White
CW	Cool White
R	Red
G	Green
B	Blue
RGB	Red + Green + Blue
RGBW	Red + Green + Blue + Warm White

Beam	Description
N	Narrow
M	Medium
W	Wide

Tube	Description
LTH67	Tube height 65mm
LTH232	Tube height 230mm
LTH532	Tube height 530mm
LTHCCH	Tube height customized

Beam	Description
LCBDB	Direct no-reflective beam
LCBRL	Low profile side-reflective beam
LCBRH	High profile side-reflective beam
LCBRD	High profile down-reflective beam



Path LED Lights

Very robust smart bollard garden LED light designed with Direct-Drive LED mains power supply for advanced optical holographic propagation technology with reflective lighting. Uniformly designed casings with different curved leaves allow the proper choice of light distribution for various layouts around buildings and gardens.

Built-in microprocessor enables network connections and remote control with digital dimming.

Built-in ASTEL protocol enables complete DMX512 lighting control by using optional interfaces.

All models are designed for operating at extreme outdoor conditions with thermal, transient and reverse polarity protections.

ALOA

Power supply	230Vac/90mA max.
Optical window	High Grade Polycarbonate Glass / Tempered Glass
Color rendering Index (CRI)	80
Luminous flux	max. 1.800 lm (cool white)
ASTEL protocol default address	1
Operating temperature	-10° C - +50° C
Casing	Painted Steel
Protection	IP67
Dimensions	1.015 x 310 x 200mm
Weight	max. 23 kg

Model	Description
LPS1800	Single-Side Closed, 1 Mid-Power LED Array
LPD1800	Double-Side Closed, 1 Mid-Power LED Array
LBS1800	Single-Side Reflection, 1 Mid-Power LED Array
LBD1800	Double-Side Reflection, 1 Mid-Power LED Array
LAS1800	Half-Side Closed, 1 Mid-Power LED Array
LAD1800	Full-Side Closed, 1 Mid-Power LED Array
LCD1800	Double-Side Closed, 1 Mid-Power LED Array

Control	Description
T	Dimming (triac)
I	Switch dimming
E	Smart dimming

Color of lighting	Description
WW	Warm White
DW	Daylight White
CW	Cool White



LBD1800



LPS1800



LPD1800



LAS1800



LBS1800



LAD1800



LCD1800

- Painted Steel Casing
- 1 Mid-Power LED Array
- Cool, Daylight or Warm White Lighting
- High Grade Polycarbonate Glass / Tempered Glass Optical Window
- Reflector with/without Holographic Diffuser
- AC Direct-Drive LED Mains Power Supply
- Low Flicker Index
- Triac and Phase Dimming
- Built-in ASTEL Protocol for DMX512 Control - Flicker Free Dimming
- AC Power Line Surge Protection
- Low Power Consumption
- Simple Installation



Flood LED Lights

Modular design with different bezels, light engines and brackets.
Single-color or multi-color RGB light control with dimming and changing the color of lighting manually or automatically through the complete rainbow spectrum by using optional momentary switch or optional DMX512 interface LXU01 with built-in ASTEL protocol.



LB86

- Aluminium Based
- Sand-Blasting and Anodizing E6CO Finishing

SOLEA

- Modular Aluminium Casing
- Sand-Blasting and/or Anodizing E6CO Finishing
- 1, 2 or 3 High-Power LEDs Design
- Cool White, Daylight White, Warm White, Blue, Green, Red, Multi-Color RGB or Multi-Color RGBW Lighting
- High Grade Polycarbonate Glass Optical Window
- Vacuum Metalized Reflector or High-Efficiency Lens
- Remote Control
- Digital Dimming
- Built-in ASTEL Protocol for DMX512 Control
- Polarity Protection
- Transient Protection
- Thermal Protection
- Low Power Consumption
- Simple Installation

Ordering Code:

SOLEA [] - [] - []

Bezel	Engine	Bracket		
LB86	ENGWW	1	N	FLBW
	ENGDW	2	M	FLBS
	ENG CW	3	W	FLBE
		4		
		5		
	ENGR	1		
	ENGG	2		
	ENGB	3		
	ENGRGB			
	ENGRGBW			

Example: SOLEA LB86-ENG CW3W-FLBW

BEZEL assembly

Material Anodized aluminium
Dimensions Ø86 x 7 mm (LB86)
Weight 0.1 kg (LB86)

Ordering Code	Description
LB86	Bezel 86mm x 7mm

Flood LED Lights



Colour of lightning	Description
ENGWW	Warm White
ENGDW	Daylight White
ENGW	Cool White
ENGR	Red
ENGG	Green
ENGB	Blue
ENGRGB	Red + Green + Blue
ENGRGBW	Red + Green + Blue + Warm White

No. of LEDs	Description
1	1 LED
2	2 LEDs
3	3 LEDs
4	3 High-Intensity LEDs
5	3 High-Intensity LEDs

Beam	Description
N	Narrow Beam
M	Medium Beam
W	Wide Beam

- Aluminium Casing
- Sand-Blasting and Anodizing E6CO Finishing

ENGINE assembly

Power supply	12 - 24 Vdc, max. 260 mA/12 Vdc or 135 mA/24 Vdc (1 LED) 12 - 24 Vdc, max. 500 mA/12 Vdc or 260 mA/24 Vdc (2 LEDs) 12 - 24 Vdc, max. 800 mA/12 Vdc or 420 mA/24 Vdc (3 LEDs) 12 - 24 Vdc, max. 950 mA/12 Vdc or 500 mA/24 Vdc (3 High-Intensity LEDs) 15 - 24 Vdc, max. 1.200 mA/24 Vdc (3 High-Intensity LEDs) 12 - 24 Vdc, max. 600 mA/12 Vdc or 300 mA/24 Vdc (RGB) (N) 12 - 24 Vdc, max. 650 mA/12 Vdc or 350 mA/24 Vdc (RGB) (M/W) 12 - 24 Vdc, max. 800 mA/12 Vdc or 400 mA/24 Vdc (RGBW) (N) 12 - 24 Vdc, max. 650 mA/12 Vdc or 350 mA/24 Vdc (RGBW) (M/W)
Beam angle	12° (N), 30° (M), 80° (W) (1 LED) 20° (N), 36° (M), 120° (W) (2 LEDs) 12° (N), 30° (M), 80° (W) (3 LEDs) 15° (N), 40° (M), 120° (W) (RGB) 15° (N), 40° (M), 120° (W) (RGBW)
Optical window	High-grade polycarbonate glass
Luminous flux	max. 270 lm (1 LED) max. 500 lm (2 LEDs) max. 700 lm (3 LEDs) max. 1.400 lm (3 High-Intensity LEDs) max. 3.000 lm (3 High-Intensity LEDs) max. 190 lm (RGB) (N) max. 400 lm (RGB) (M/W) max. 330 lm (RGBW) (N) max. 550 lm (RGBW) (M/W)
Operating temperature	-10°C - +40°C
Casing	Anodized aluminium
Protection	IP 67
Dimensions	Ø86 x 68 mm (ordering code 2: 1, 2, 3, 4) Ø86 x 153 mm (ordering code 2: 5)
Weight	0.6 kg (ordering code 2: 1, 2, 3, 4) 1.7 kg (ordering code 2: 5)

FLOOD LIGHT BRACKET assembly

Material	Anodized aluminium
Dimensions	Ø86 x 65 mm (FLBW) 63 x 62 x 86 mm (FLBS) 63 x 30 x 63 mm (FLBE)
Weight	0.5 kg (FLBW) 0.1 kg (FLBS) 0.1 kg (FLBE)

Ordering Code	Description
FLBW	High-end wall bracket
FLBS	Economy sprinkler bracket
FLBE	Economy wall bracket



- Aluminium Based
- Sand-Blasting and Anodizing E6CO Finishing

Flood LED Lights

Compact design with different bezels, light engines and brackets.
Single-color or multi-color RGB light control with dimming and changing the color of lighting manually or automatically through the complete rainbow spectrum by using optional momentary switch or optional DMX512 interface LXU01 with built-in ASTEL protocol.



- Compact Stainless Steel or Aluminium Casing
- Sand-Blasting and/or Anodizing E6C0 Finishing
- 1, 2, 3 or 6 High-Power LEDs Design
- Cool White, Daylight White, Warm White, Blue, Green, Red, Multi-Color RGB or Multi-Color RGBW Lighting
- High Grade Polycarbonate Glass Optical Window
- Vacuum Metalized Reflector or High-Efficiency Lens
- Remote Control
- Digital Dimming
- Built-in ASTEL Protocol for DMX512 Control
- Polarity Protection
- Transient Protection
- Thermal Protection
- Low Power Consumption
- Simple Installation

Model	Description
0115SS	1 High-Power LED, Stainless Steel
0230SS	2 High-Power LEDs, Stainless Steel
0345SS	3 High-Power LEDs, Stainless Steel
0390SS	3 High-Intensity LEDs, Stainless Steel
03200SS	3 High-Intensity LEDs, Stainless Steel
0110SS	1 High-Power LED, Stainless Steel
0110	1 High-Power LED, Anodized Aluminium
0630SS	6 High-Power LEDs, Stainless Steel

Color of lighting	Description
WW	Warm White
DW	Daylight White
CW	Cool White
R	Red
G	Green
B	Blue
RGB	Red + Green + Blue
RGBW	Red + Green + Blue + Warm White

SOLEA 01XX • 02XX • 03XX • 06XX

Power supply	12(15) - 24 Vdc, max. 2.5 A (0115 to 0630 series) 12 - 24 Vdc, max. 130 mA (0110 series)
Lens angle	12°-20°(N), 30°-40°(M), 80°-120° (W) (0115 to 0630 series) 12°(N), 32°(M), 80°(W) (0110 series)
Optical window	High Grade Polycarbonate Glass
Luminous flux	max. 3.000 lm (0115 to 0630 series) max. 130 lm (0110 series)
ASTEL protocol default address	1
Operating temperature	-10 °C - +50 °C
Casing	Stainless Steel or Anodized Aluminium
Protection	IP 66 (aluminium) IP 68 (stainless steel)
Dimensions	max. Ø84 x 88 mm (0115 to 0630 series) max. Ø50 x 82 mm (0110 series)
Weight	max. 0,3 kg (aluminium 0110 series) max. 0,6 kg (stainless steel 0110 series) max. 1.4 kg (stainless steel 0115 to 0630 series)

Ordering Code:

SOLEA [] - [] - []

	Engine		Bracket
0115SS	WW	N	FMLBS
0230SS	DW	M	FMLBE
0345SS	CW	W	
0390SS			
03200SS			
0115SS	R		
0230SS	G		
0345SS	B		
0630SS	RGB		
	RGBW		
0110SS	WW	N	FCLBS
0110	DW	M	FCLBE
	CW	W	
	R		
	G		
	B		
	RGB		
	RGBW		

Example: SOLEA 0115SS-WWN-FMLBS
SOLEA 0110-RGBN-FCLBE

Beam	Description
N	Narrow
M	Medium
W	Wide

Bracket	Description
FMLBS	Sprinkler bracket
FMLBE	Wall bracket
FCLBS	Sprinkler bracket
FCLBE	Wall bracket



Flood-Path LED Lights

Modular design with different bezels, light engines, supports and heights. Single-color or multi-color RGB light control with dimming and changing the color of lighting manually or automatically through the complete rainbow spectrum by using optional momentary switch or optional DMX512 interface LXU01 with built-in ASTEL protocol.



SIGMA

- Modular Aluminium Casing
- Sand-Blasting and Anodizing E6CO Finishing
- 1, 2 or 3 High-Power LEDs Design
- Cool White, Daylight White, Warm White, Blue, Green, Red, Multi-Color RGB or Multi-Color RGBW Lighting
- High Grade Polycarbonate Glass Optical Window
- Vacuum Metalized Reflector or High-Efficiency Lens
- Remote Control
- Digital Dimming
- Built-in ASTEL Protocol for DMX512 Control
- Polarity Protection
- Transient Protection
- Thermal Protection
- Low Power Consumption
- Simple Installation

Ordering Code:

SIGMA [] - [] - [] - []

Bezel	Engine	Support	Tube
LB86	ENGWW 1	N	FLSD
LB100	ENDW 2	M	FLS100
	ENGW 3	W	FLS30C100
			LTH490
			LTH790
	5		LTHCH
	ENGR 1		LTH90-30
	ENGG 2		LTH190-30
	ENGB 3		LTH490-30
	ENGRGB		LTH790-30
	ENGRGBW		LTHCH-30

Example: SIGMA LB86-ENGWW3W-FLS30-LTH790-30

Flood-Path LED Lights



Colour of lightning	Description
ENGWW	Warm White
ENGDW	Daylight White
ENG CW	Cool White
ENGR	Red
ENGG	Green
ENGB	Blue
ENGRGB	Red + Green + Blue
ENGRGBW	Red + Green + Blue + Warm White

No. of LEDs	Description
1	1 LED
2	2 LEDs
3	3 LEDs
4	3 High-Intensity LEDs
5	3 High-Intensity LEDs

Beam	Description
N	Narrow Beam
M	Medium Beam
W	Wide Beam

- Aluminium Casing
- Sand-Blasting and Anodizing E6CO Finishing

ENGINE assembly

Power supply	12 - 24 Vdc, max. 260 mA/12 Vdc or 135 mA/24 Vdc (1 LED)
	12 - 24 Vdc, max. 500 mA/12 Vdc or 260 mA/24 Vdc (2 LEDs)
	12 - 24 Vdc, max. 800 mA/12 Vdc or 420 mA/24 Vdc (3 LEDs)
	12 - 24 Vdc, max. 950 mA/12 Vdc or 500 mA/24 Vdc (3 High-Intensity LEDs)
	15 - 24 Vdc, max. 1.200 mA/24 Vdc (3 High-Intensity LEDs)
Beam angle	12 - 24 Vdc, max. 600 mA/12 Vdc or 300 mA/24 Vdc (RGB) (N)
	12 - 24 Vdc, max. 650 mA/12 Vdc or 350 mA/24 Vdc (RGB) (M/W)
	12 - 24 Vdc, max. 800 mA/12 Vdc or 400 mA/24 Vdc (RGBW) (N)
	12 - 24 Vdc, max. 650 mA/12 Vdc or 350 mA/24 Vdc (RGBW) (M/W)
	12°(N), 30°(M), 80°(W) (1 LED)
Optical window	20°(N), 36°(M), 120°(W) (2 LEDs)
	12°(N), 30°(M), 80°(W) (3 LEDs)
	15°(N), 40°(M), 120°(W) (RGB)
	15°(N), 40°(M), 120°(W) (RGBW)
	High-grade polycarbonate glass
Luminous flux	max. 270 lm (1 LED)
	max. 500 lm (2 LEDs)
	max. 700 lm (3 LEDs)
	max. 1.400 lm (3 High-Intensity LEDs)
	max. 3.000 lm (3 High-Intensity LEDs)
Operating temperature	max. 190 lm (RGB) (N)
	max. 400 lm (RGB) (M/W)
	max. 330 lm (RGBW) (N)
	max. 550 lm (RGBW) (M/W)
	-10°C - +40°C
Casing	Anodized aluminium
Protection	IP 67
Dimensions	∅86 x 68 mm (ordering code 2: 1, 2, 3, 4)
	∅86 x 153 mm (ordering code 2: 5)
Weight	0.6 kg (ordering code 2: 1, 2, 3, 4)
	1.7 kg (ordering code 2: 5)

BEZEL assembly

Material	Anodized aluminium
Dimensions	∅86 x 7 mm (LB86)
	∅100 x 38 mm (LB100)
Weight	0.1 kg (LB86)
	0.3 kg (LB100)



LB86

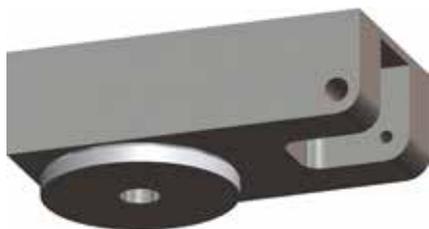


LB100

- Aluminium Based
- Sand-Blasting and Anodizing E6CO Finishing

Ordering Code	Description
LB86	Bezel 86mm x 7mm
LB100	Bezel 100mm x 37mm

Flood-Path LED Lights



FLSD



FLS100



FLS30



FLS30C100

- Aluminium Based
- Sand-Blasting and Anodizing E6CO Finishing

FLOOD LIGHT SUPPORT assembly

Material	Anodized aluminium
Dimensions	180 x 100 x 52(62) mm (FLSD) Ø100 x 60(70) mm (FLS100) Ø100 x 130(140) mm (FLS30C100) Ø60 x 83(93) mm (FLS30)
Weight	2.4 kg (FLSD) 0.6 kg (FLS100) 0.8 kg (FLS30C100) 0.2 kg (FLS30)

Ordering Code	Description
FLSD	Down light support
FLS100	Tube 100mm support
FLS30C100	Tube 100mm support convert 30mm
FLS30	Tube 30mm support

TUBE assembly

Material	Anodized aluminium
Dimensions	Ø100 x 95 mm Ø100 x 195 mm Ø100 x 495 mm Ø100 x 795 mm Ø100 x C mm (customized) Ø30 x 100 mm Ø30 x 200 mm Ø30 x 500 mm Ø30 x 800 mm Ø30 x C mm (customized)
Weight	0.6 kg (90) 0.9 kg (190) 1.7 kg (490) 2.4 kg (790) 0.3 kg (90-30) 0.4 kg (190-30) 0.6 kg (490-30) 0.8 kg (790-30)

Ordering code	Description
LTH90	Tube height 90mm
LTH190	Tube height 190mm
LTH490	Tube height 490mm
LTH790	Tube height 790mm
LTHCH	Tube height customized
LTH90-30	Tube height 90mm
LTH190-30	Tube height 190mm
LTH490-30	Tube height 490mm
LTH790-30	Tube height 790mm
LTHCH-30	Tube height customized



LTH790



LTH190-30



LTH490



LTH490-30



LTH190



LTH190-30



LTH90



LTH90-30

- Aluminium Based
- Sand-Blasting and Anodizing E6CO Finishing

Flood-Path LED Lights

Compact design with different bezels, light engines, supports and heights.
Single-color or multi-color RGB light control with dimming and changing the color of lighting manually or automatically through the complete rainbow spectrum by using optional momentary switch or optional DMX512 interface LXU01 with built-in ASTEL protocol.

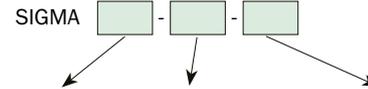


- Modular Aluminium Casing
- Sand-Blasting and Anodizing E6CO Finishing
- 1 High-Power LED Design
- Cool White, Daylight White, Warm White, Blue, Green, Red, Multi-Color RGB or Multi-Color RGBW Lighting
- High Grade Polycarbonate Glass Optical Window
- Vacuum Metalized Reflector or High-Efficiency Lens
- Remote Control
- Digital Dimming
- Built-in ASTEL Protocol for DMX512 Control
- Polarity Protection
- Transient Protection
- Thermal Protection
- Low Power Consumption
- Simple Installation

SIGMA 0110

Power supply	12 - 24 Vdc, max. 130 mA
Lens angle	12° (N), 30° (M), 80° (W)
Optical window	High Grade Polycarbonate Glass
Luminous flux	max. 130 lm
ASTEL protocol default address	1
Operating temperature	-10 °C - +50 °C
Casing	Anodized Aluminium
Protection	IP 66
Dimensions	max. Ø60 x 590 mm
Weight	max. 600 g

Ordering Code:



	Engine		Support
0110	WW	N	LSH50
	DW	M	LSH200
	CW	W	LSH500
	R		LSHCCH
	G		
	B		
	RGB		
	RGBW		

Example: SIGMA 0110-DWM-LSH200

Model	Description
0110	1 High-Power LED

Color of lighting	Description
WW	Warm White
DW	Daylight White
CW	Cool White
R	Red
G	Green
B	Blue
RGB	Red + Green + Blue
RGBW	Red + Green + Blue + Warm White

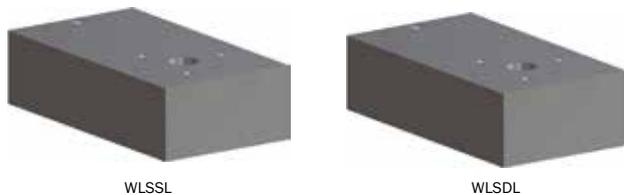
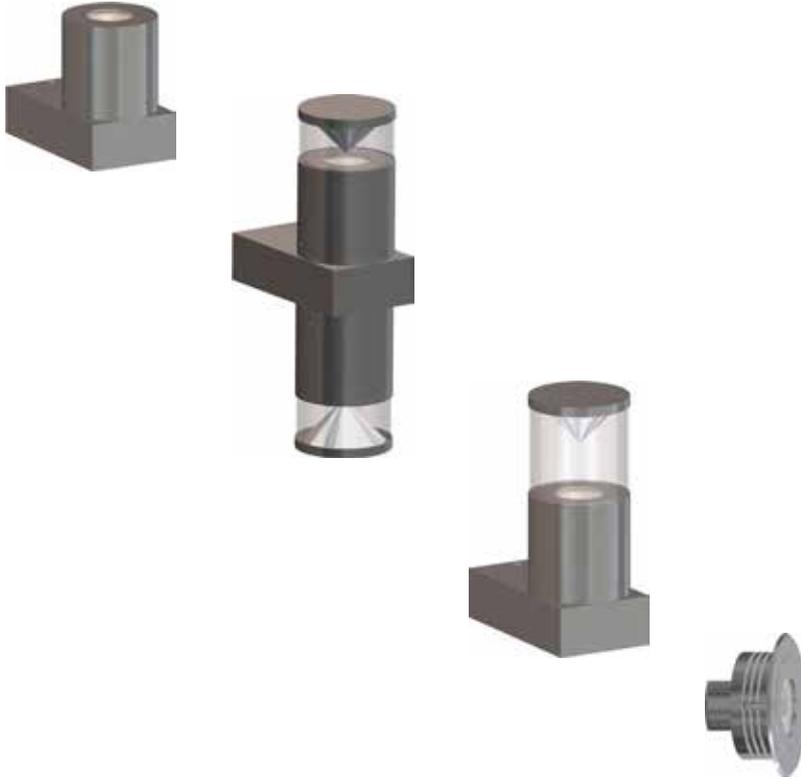
Beam	Description
N	Narrow
M	Medium
W	Wide

Tube	Description
LSH50	Tube height 50mm
LSH200	Tube height 200mm
LSH500	Tube height 500mm
LSHCCH	Tube height customized



Wall LED Lights

Modular design with different wall supports, light engines, heights and beams.
Single-color or multi-color RGB light control with dimming and changing the color of lighting manually or automatically through the complete rainbow spectrum by using optional momentary switch or optional DMX512 interface LXU01 with built-in ASTEL protocol.



- Aluminium Based
- Sand-Blasting and Anodizing E6CO Finishing/Painting

SOMBRA

- Modular Aluminium Casing
- Sand-Blasting and Anodizing E6CO Finishing/Painting
- 1, 2 or 3 High-Power LEDs Design
- Warm White, Daylight White, Cool White, Blue, Green, Red, Multi-Color RGB or Multi-Color RGBW Lighting
- High Grade PMMA or Polycarbonate Glass Optical Window
- Vacuum Metalized Reflector or High-Efficiency Lens
- Remote Control
- Digital Dimming
- Built-in ASTEL Protocol for DMX512 Control
- Polarity Protection
- Transient Protection
- Thermal Protection
- Low Power Consumption
- Simple Installation

Ordering Code:

SOMBRA [] - [] - [] - [] - [] - [] - []

Support/ Bezel	Engine	Tube	Beam						
WLSL	-	ENGWW	1	N	-	LTH90	-	LBDB	-
WLSDL	W	ENDGW	2	M	W	LTH190	W	LBRL	W
	B	ENG CW	3	W	B	LTH490	B	LBRH	B
			4			LTH790		LBRD	
			5			LTHCH			
		ENGR	1						
		ENGG	2						
		ENGB	3						
		ENGRGB							
		ENGRGBW							
LB116	-	ENGWW	1	N					
	W	ENDGW	2	M					
	B	ENG CW	3	W					
			4						
			5						
		ENGR	1						
		ENGG	2						
		ENGB	3						
		ENGRGB							
		ENGRGBW							

Example: SOMBRA WLSL-ENGRGB-LTH90-LBDB
SOMBRA WLSDL-ENGWW3W-LTH90-LBRL-ENGWW6W-LTH190-LBDB
SOMBRA LB116-ENG CW1N

WALL SUPPORT assembly

Material Anodized aluminium
Dimensions 100 x 50 x 180 mm
Weight 2.3 kg

Support	Description
WLSL	Single side engine light support, neutral
WLSDL	Dual side engine light support, neutral
WLSLW	Single side engine light support, white
WLSDLW	Dual side engine light support, white
WLSL B	Single side engine light support, black
WLSDL B	Dual side engine light support, black

Wall LED Lights



Colour of lightning	Description
ENGWW	Warm White
ENGDW	Daylight White
ENG CW	Cool White
ENGR	Red
ENGG	Green
ENGB	Blue
ENGRGB	Red + Green + Blue
ENGRGBW	Red + Green + Blue + Warm White

No. of LEDs	Description
1	1 LED
2	2 LEDs
3	3 LEDs
4	3 High-Intensity LEDs
5	3 High-Intensity LEDs

Beam	Description
N	Narrow Beam
M	Medium Beam
W	Wide Beam

Colour of casing	Description
-	Neutral
W	White
B	Black

- Aluminium Casing
- Sand-Blasting and Anodizing E6CO Finishing/Painting

ENGINE assembly

Power supply	12 - 24 Vdc, max. 260 mA/12 Vdc or 135 mA/24 Vdc (1 LED) 12 - 24 Vdc, max. 500 mA/12 Vdc or 260 mA/24 Vdc (2 LEDs) 12 - 24 Vdc, max. 800 mA/12 Vdc or 420 mA/24 Vdc (3 LEDs) 12 - 24 Vdc, max. 950 mA/12 Vdc or 500 mA/24 Vdc (3 High-Intensity LEDs) 15 - 24 Vdc, max. 1.200 mA/24 Vdc (3 High-Intensity LEDs) 12 - 24 Vdc, max. 600 mA/12 Vdc or 300 mA/24 Vdc (RGB) (N) 12 - 24 Vdc, max. 650 mA/12 Vdc or 350 mA/24 Vdc (RGB) (M/W) 12 - 24 Vdc, max. 800 mA/12 Vdc or 400 mA/24 Vdc (RGBW) (N) 12 - 24 Vdc, max. 650 mA/12 Vdc or 350 mA/24 Vdc (RGBW) (M/W)
Beam angle	12° (N), 30° (M), 80° (W) (1 LED) 20° (N), 36° (M), 120° (W) (2 LEDs) 12° (N), 30° (M), 80° (W) (3 LEDs) 15° (N), 40° (M), 120° (W) (RGB) 15° (N), 40° (M), 120° (W) (RGBW)
Optical window	High-grade polycarbonate glass
Luminous flux	max. 270 lm (1 LED) max. 500 lm (2 LEDs) max. 700 lm (3 LEDs) max. 1.400 lm (3 High-Intensity LEDs) max. 3.000 lm (3 High-Intensity LEDs) max. 190 lm (RGB) (N) max. 400 lm (RGB) (M/W) max. 330 lm (RGBW) (N) max. 550 lm (RGBW) (M/W)
Operating temperature	-10°C - +40°C
Casing	Anodized aluminium
Protection	IP 67
Dimensions	Ø86 x 68 mm (ordering code 2: 1, 2, 3, 4) Ø86 x 153 mm (ordering code 2: 5)
Weight	0.6 kg (ordering code 2: 1, 2, 3, 4) 1.7 kg (ordering code 2: 5)

BEZEL assembly

Material	Anodized aluminium
Dimensions	Ø116 x 7 mm (LB116)
Weight	0.1 kg (LB116)

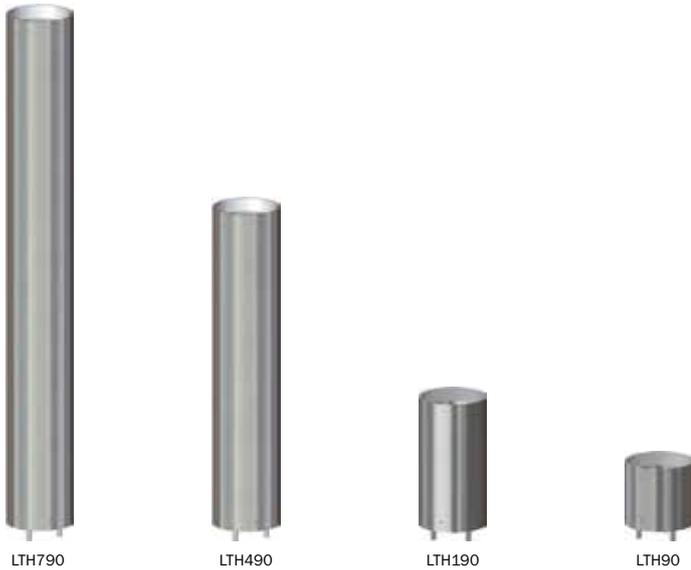


LB116

- Aluminium Based
- Sand-Blasting and Anodizing E6CO Finishing/Painting

Bezel	Description
LB116	Bezel 116mm x 7 mm, neutral
LB116W	Bezel 116mm x 7 mm, white
LB116B	Bezel 116mm x 7 mm, black

Wall LED Lights



- Aluminium Based
- Sand-Blasting and Anodizing E6CO Finishing/Painting

TUBE assembly

Material	Anodized aluminium
Dimensions	\varnothing 100 x 95 mm \varnothing 100 x 195 mm \varnothing 100 x 495 mm \varnothing 100 x 795 mm \varnothing 100 x C mm (customized)
Weight	0.6 kg (90) 0.9 kg (190) 1.7 kg (490) 2.4 kg (790)

Tube	Description
LTH90	Tube height 90mm, neutral
LTH190	Tube height 190mm, neutral
LTH490	Tube height 490mm, neutral
LTH790	Tube height 790mm, neutral
LTHCH	Tube height customized, neutral
LTH90W	Tube height 90mm, white
LTH190W	Tube height 190mm, white
LTH490W	Tube height 490mm, white
LTH790W	Tube height 790mm, white
LTHCHW	Tube height customized, white
LTH90B	Tube height 90mm, black
LTH190B	Tube height 190mm, black
LTH490B	Tube height 490mm, black
LTH790B	Tube height 790mm, black
LTHCHB	Tube height customized, black



- Aluminium Based
- Sand-Blasting and Anodizing E6CO Finishing/Painting
- High Grade PMMA Glass Optical Window

BEAM assembly

Material	Anodized aluminium and PMMA glass
Dimensions	\varnothing 100 x 115 mm (LBRD) \varnothing 100 x 115 mm (LBRH) \varnothing 100 x 70 mm (LBRL) \varnothing 100 x 7 mm (LBDB)
Weight	0.6 kg (LBRD) 0.4 kg (LBRH) 0.5 kg (LBRL) 0.2 kg (LBDB)

Beam	Description
LBRD	High profile down-reflective beam 105mm, neutral
LBRH	High profile side-reflective beam 105mm, neutral
LBRL	Low profile side-reflective beam 60mm, neutral
LBDB	Direct no reflective beam 5mm, neutral
LBRDW	High profile down-reflective beam 105mm, white
LBRHW	High profile side-reflective beam 105mm, white
LBRLW	Low profile side-reflective beam 60mm, white
LBDBW	Direct no reflective beam 5mm, white
LBRDB	High profile down-reflective beam 105mm, black
LBRHB	High profile side-reflective beam 105mm, black
LBRLB	Low profile side-reflective beam 60mm, black
LBDBB	Direct no reflective beam 5mm, black

Wall LED Lights

Compact design with different wall supports, light engines, heights and beams. Single-color or multi-color RGB light control with dimming and changing the color of lighting manually or automatically through the complete rainbow spectrum by using optional momentary switch or optional DMX512 interface LXU01 with built-in ASTEL protocol.



- Compact Stainless Steel or Aluminium Casing
- Sand-Blasting and Anodizing E6CO Finishing/Painting
- 1, 2, 3 or 6 High-Power LEDs Design
- Warm White, Daylight White, Cool White, Blue, Green, Red, Multi-Color RGB or Multi-Color RGBW Lighting
- High Grade PMMA or Polycarbonate Glass Optical Window
- Vacuum Metalized Reflector or High-Efficiency Lens
- Remote Control
- Digital Dimming
- Built-in ASTEL Protocol for DMX512 Control
- Polarity Protection
- Transient Protection
- Thermal Protection
- Low Power Consumption
- Simple Installation

Model	Description
0110-WCLSSL	1 High-Power LED, single, aluminium, neutral
0110-WCLSSLW	1 High-Power LED, single, aluminium, white
0110-WCLSSLB	1 High-Power LED, single, aluminium, black
0110-WCLSDL	1 High-Power LED, dual, aluminium, neutral
0110-WCLSDLW	1 High-Power LED, dual, aluminium, white
0110-WCLSDLB	1 High-Power LED, dual, aluminium, black
0110-LB79	1 High-Power LED, flush-mount, aluminium, neutral
0110-LB79W	1 High-Power LED, flush-mount, aluminium, white
0110-LB79B	1 High-Power LED, flush-mount, aluminium, black
0110SS-LB79	1 High-Power LED, flush-mount, stainless steel
0115SS-LB116	1 High-Power LED, flush-mount, stainless steel
0230SS-LB116	2 High-Power LEDs, flush-mount, stainless steel
0345SS-LB116	3 High-Power LEDs, flush-mount, stainless steel
0390SS-LB116	3 High-Intensity LEDs, flush-mount, stainless steel
0630SS-LB116	6 High-Power LEDs, flush-mount, stainless steel

Color of lighting	Description
WW	Warm White
DW	Daylight White
CW	Cool White
R	Red
G	Green
B	Blue
RGB	Red + Green + Blue
RGBW	Red + Green + Blue + Warm White

Beam	Description
N	Narrow
M	Medium
W	Wide

Tube	Description
LTH67	Tube height 65mm
LTH232	Tube height 230mm
LTH532	Tube height 530mm
LTHCH	Tube height customized

SOMBRA 01XX • 02XX • 03XX • 06XX

Power supply	12(15) - 24 Vdc, max. 2.5 A (0115 to 0630 series) 12 - 24 Vdc, max. 130 mA (0110 series)
Lens angle	12°-20°(N), 30°-40°(M), 80°-120°(W) (0115 to 0630 series) 12°(N), 32°(M), 80°(W) (0110 series)
Optical window	High Grade Polycarbonate Glass
Luminous flux	max. 3.000 lm (0115 to 0630 series) max. 130 lm (0110 series)
ASTEL protocol default address	1
Operating temperature	-10 °C - +50 °C
Casing	Stainless Steel or Anodized Aluminium
Protection	IP 66 (aluminium) IP 68 (stainless steel)
Dimensions	max. 60x90x110 (0110 WCL series) max. Ø79 x 65 mm (0110 LB series) max. Ø116 x 66 mm (0115SS LB to 0630SS LB series)
Weight	max. 700 g (0110 WCL series) max. 250 g (0110 LB series, aluminium) max. 600 g (0110SS LB series, stainless steel) max. 1.5 kg (0115SS LB to 0630SS LB series, stainless steel)

Ordering Code:

SOMBRA - - - - - - -

Support	Engine	Tube	Beam	Niche
0110-WCLSSL 0110-WCLSDL	- WW DW CW R G B RGB RGBW	N M W	LTH67 LTH232 LTH532 LTHCH	LCBDB LCBRL LCBRH LCBRD
0110-LB79	- WW DW CW R	N M W		
0110SS-LB79	G B RGB RGBW			
0115SS-LB116 0230SS-LB116 0345SS-LB116 0390SS-LB116	WW DW CW	N M W		LWN108
0115SS-LB116 0230SS-LB116 0345SS-LB116 0630SS-LB116	R G B RGB			

- only for dual engine types

Example: SOMBRA 0110-WCLSSL-RGBM-LTH67-LCBDB
SOMBRA 0110-WCLSDL-WWW-LTH232-LCBRL-ENGWWW-LTH67-LCBDB
SOMBRA 0110SS-LB79-CWN

Beam	Description
LCBDB	Direct no-reflective beam
LCBRL	Low profile side-reflective beam
LCBRH	High profile side-reflective beam
LCBRD	High profile down-reflective beam

Niche	Description
LWN108	Wall Niche



Inground LED Lights



Colour of lightning	Description
ENGWW	Warm White
ENGDW	Daylight White
ENGW	Cool White
ENGR	Red
ENGG	Green
ENGB	Blue
ENGRGB	Red + Green + Blue
ENGRGBW	Red + Green + Blue + Warm White

No. of LEDs	Description
1	1 LED
2	2 LEDs
3	3 LEDs
4	3 High-Intensity LEDs
5	3 High-Intensity LEDs

Beam	Description
N	Narrow Beam
M	Medium Beam
W	Wide Beam

- Aluminium Casing
- Sand-Blasting and Anodizing E6CO Finishing

ENGINE assembly

Power supply	12 – 24 Vdc, max. 260 mA/12 Vdc or 135 mA/24 Vdc (1 LED)
	12 – 24 Vdc, max. 500 mA/12 Vdc or 260 mA/24 Vdc (2 LEDs)
	12 – 24 Vdc, max. 800 mA/12 Vdc or 420 mA/24 Vdc (3 LEDs)
	12 – 24 Vdc, max. 950 mA/12 Vdc or 500 mA/24 Vdc (3 High-Intensity LEDs)
	15 – 24 Vdc, max. 1.200 mA/24 Vdc (3 High-Intensity LEDs)
	12 – 24 Vdc, max. 600 mA/12 Vdc or 300 mA/24 Vdc (RGB) (N)
	12 – 24 Vdc, max. 650 mA/12 Vdc or 350 mA/24 Vdc (RGB) (M/W)
	12 – 24 Vdc, max. 800 mA/12 Vdc or 400 mA/24 Vdc (RGBW) (N)
	12 – 24 Vdc, max. 650 mA/12 Vdc or 350 mA/24 Vdc (RGBW) (M/W)
	12° (N), 30° (M), 80° (W) (1 LED)
Beam angle	20° (N), 36° (M), 120° (W) (2 LEDs)
	12° (N), 30° (M), 80° (W) (3 LEDs)
	15° (N), 40° (M), 120° (W) (RGB)
	15° (N), 40° (M), 120° (W) (RGBW)
Optical window	High-grade polycarbonate glass
Luminous flux	max. 270 lm (1 LED)
	max. 500 lm (2 LEDs)
	max. 700 lm (3 LEDs)
	max. 1.400 lm (3 High-Intensity LEDs)
	max. 3.000 lm (3 High-Intensity LEDs)
	max. 190 lm (RGB) (N)
	max. 400 lm (RGB) (M/W)
	max. 330 lm (RGBW) (N)
	max. 550 lm (RGBW) (M/W)
	Operating temperature
Casing	Anodized aluminium
Protection	IP 67
Dimensions	∅86 x 68 mm (ordering code 2: 1, 2, 3, 4)
	∅86 x 153 mm (ordering code 2: 5)
Weight	0.6 kg (ordering code 2: 1, 2, 3, 4)
	1.7 kg (ordering code 2: 5)



- Stainless Steel or Aluminium Casing with PMMA Tube
- Sand-Blasting and/or Anodizing E6CO Finishing
- PMMA or Tempered Glass Optical Window

INGROUND BEAM assembly

Material	Stainless steel (SAE316L) or Aluminium with PMMA or tempered glass
Dimensions	110 x 27 mm (IGBD)
	110 x 28 mm (IGBR)
Weight	0.8 kg (IGBDSS, IGBDSB) (stainless steel)
	350 g (IGBDAN, IGBDAB) (aluminium)
	0.8 kg (IGBR12OSS, IGBR12OSB) (stainless steel)
	300 g (IGBR12OAN, IGBR12OAB) (aluminium)
	0.7 kg (IGBR24OSS, IGBR24OSB) (stainless steel)
	250 g (IGBR24OAN, IGBR24OAB) (aluminium)
	0.6 kg (IGBR36OSS, IGBR36OSB) (stainless steel)
	200 g (IGBR36OAN, IGBR36OAB) (aluminium)

Ordering Code	Description
IGBDSS	Direct no-reflective beam, Stainless steel, Sand-Blasted
IGBR12OSS	Reflective beam 120 degrees, Stainless steel, Sand-Blasted
IGBR24OSS	Reflective beam 240 degrees, Stainless steel, Sand-Blasted
IGBR36OSS	Reflective beam 360 degrees, Stainless steel, Sand-Blasted
IGBDSB	Direct no-reflective beam, Stainless Steel, Black Nitride
IGBR12OSB	Reflective beam 120 degrees, Stainless Steel, Black Nitride
IGBR24OSB	Reflective beam 240 degrees, Stainless Steel, Black Nitride
IGBR36OSB	Reflective beam 360 degrees, Stainless Steel, Black Nitride

Ordering Code	Description
IGBDAN	Direct no-reflective beam, Aluminium, Neutral Anodized
IGBR12OAN	Reflective beam 120 degrees, Aluminium, Neutral Anodized
IGBR24OAN	Reflective beam 240 degrees, Aluminium, Neutral Anodized
IGBR36OAN	Reflective beam 360 degrees, Aluminium, Neutral Anodized
IGBDAB	Direct no-reflective beam, Aluminium, Black Anodized
IGBR12OAB	Reflective beam 120 degrees, Aluminium, Black Anodized
IGBR24OAB	Reflective beam 240 degrees, Aluminium, Black Anodized
IGBR36OAB	Reflective beam 360 degrees, Aluminium, Black Anodized

Inground LED Lights

Compact design with different niches, light engines and beams.

Single-color or multi-color RGB light control with dimming and changing the color of lighting manually or automatically through the complete rainbow spectrum by using optional momentary switch or optional DMX512 interface LXU01 with built-in ASTEL protocol.



- Compact Stainless Steel or Aluminium Casing
- Sand-Blasting and/or Anodizing E6CO Finishing
- 1 High-Power LED Design
- Warm White, Daylight White, Cool White, Blue, Green, Red, Multi-Color RGB or Multi-Color RGBW Lighting
- High Grade Polycarbonate Glass / Tempered Glass Optical Window
- Vacuum Metalized Reflector
- Remote Control
- Digital Dimming
- Built-in ASTEL Protocol for DMX512 Control
- Polarity Protection
- Transient Protection
- Thermal Protection
- Low Power Consumption
- Simple Installation

VOLCANO 0110

Power supply	12 - 24 Vdc, max. 130 mA
Lens angle	12° (N), 30° (M), 80° (W)
Optical window	High Grade Polycarbonate Glass
Luminous flux	max. 130 lm
ASTEL protocol default address	1
Operating temperature	-10 °C - +50 °C
Casing	Anodized Aluminium
Protection	IP 67
Dimensions	max. Ø78 x 125 mm
Weight	max. 450 g (aluminium) max. 650 g (stainless steel)

Ordering Code:

VOLCANO [] - [] - []

Niche	Engine	Beam
0110-IGCNSS	WW N	IGCBD
0110-IGCNB	DW M	IGCBR120
0110-IGCNAN	CW W	IGCBR240
0110-IGCNAB	R	IGCBR360
	G	
	B	
	RGB	
	RGBW	

Example: VOLCANO 0110-IGCNB-WWW-IGCBR360

Model	Description
0110-IGCNSS	1 High-Power LED, Stainless Steel, Sand-Blasting
0110-IGCNB	1 High-Power LED, Stainless Steel, Black Nitride
0110-IGCNAN	1 High-Power LED, Aluminium, Neutral Anodized
0110-IGCNAB	1 High-Power LED, Aluminium, Black Anodized

Color of lighting	Description
WW	Warm White
DW	Daylight White
CW	Cool White
R	Red
G	Green
B	Blue
RGB	Red + Green + Blue
RGBW	Red + Green + Blue + Warm White

Beam	Description
N	Narrow
M	Medium
W	Wide

Beam	Description
IGCBD	Direct No-Reflective Beam
IGCBR120	Reflective Beam 120°
IGCBR240	Reflective Beam 240°
IGCBR360	Reflective Beam 360°



Surface Ground LED Lights

Compact design with different beams.

Single-color or multi-color RGB light control with dimming and changing the color of lighting manually or automatically through the complete rainbow spectrum by using optional momentary switch or optional DMX512 interface LXU01 with built-in ASTEL protocol.

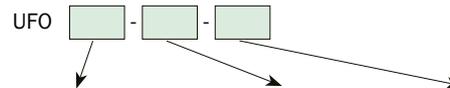


- Stainless Steel or Aluminium Casing
- Sand-Blasting and/or Anodizing E6C0 Finishing
- 1 High-Power LED Array
- Cool White, Warm White, Blue, Green, Red, Multi-Color RGB or Multi-Color RGBW Lighting
- High Grade Polycarbonate Glass / Tempered Glass Optical Window
- High-Efficiency Lens
- Remote Control
- Digital Dimming
- Built-in ASTEL Protocol for DMX512 Control
- Polarity Protection
- Transient Protection
- Thermal Protection
- Low Power Consumption
- Simple Installation

UFO

Power supply	12 - 24 Vdc, max. 260 mA/12 Vdc or 135 mA/24 Vdc (1 LED) 12 - 24 Vdc, max. 600 mA/12 Vdc or 300 mA/24 Vdc (RGB) 12 - 24 Vdc, max. 800 mA/12 Vdc or 400 mA/24 Vdc (RGBW)
Lens angle (D)	12° (N), 32° (M), 80° (W) (1 LED) 25° (N), 38° (M), 82° (W) (RGB) (RGBW)
Optical window	High Grade Polycarbonate Glass / Tempered Glass
Luminous flux	max. 270 lm (1 LED) max. 190 lm (RGB) max. 330 lm (RGBW)
ASTEL protocol default address	1
Operating temperature	-10°C - +50°C
Casing	Stainless steel (316L)
Protection	IP 67
Dimensions	Ø149 x 33 mm (120, 240, 360) Ø149 x 29 mm (D)
Weight	2.0 kg (120, 240, 360) (stainless steel) 750 g (120, 240, 360) (aluminium) 2.3 kg (D) (stainless steel) 900 g (D) (aluminium)

Ordering Code:



Model	Color of lighting	Beam
LSR0120SS	WW	D
LSR0120SB	DW	120
LSR0120AN	CW	240
LSR0120AB	R	360
	G	
	B	
	RGB	
	RGBW	

Example: UFO LSR0120SS-WW-D

Model	Description
LSR0120SS	1 High-Power LED Array, Stainless Steel, Sand-Blasting
LSR0120SB	1 High-Power LED Array, Stainless Steel, Black Nitride
LSR0120AN	1 High-Power LED Array, Aluminium, Neutral Anodized
LSR0120AB	1 High-Power LED Array, Aluminium, Black Anodized

Color of lighting	Description
WW	Warm White
DW	Daylight White
CW	Cool White
R	Red
G	Green
B	Blue
RGB	Red + Green + Blue
RGBW	Red + Green + Blue + Warm White

Beam	Description
D	Direct No-Reflective Beam
120	Reflective Beam 120°
240	Reflective Beam 240°
360	Reflective Beam 360°



Fountain LED Lights

Modular design with different cable installations, outdoor and underwater mounting options. Multi-color RGB light control with dimming and changing the color of lighting manually or automatically through the complete rainbow spectrum by using optional momentary switch or optional DMX512 interface LXU01 with built-in ASTEL protocol.



- Modular Stainless Steel Casing
- Polished Finishing
- 12 or 36 High-Power LEDs Design
- Warm White, Cool White or Multi-Color RGB Lighting
- High Grade Polycarbonate Glass Optical Window
- Vacuum Metalized Reflector
- Remote Control
- Digital Dimming
- Built-in ASTEL Protocol for DMX512 Control
- Polarity Protection
- Transient Protection
- Thermal Protection
- Low Power Consumption
- Simple Installation

CASCADA

Power supply	12 – 24 Vdc, max. 1.4 A/12 Vdc or 650 mA/24 Vdc (1280) 12 – 24 Vdc, max. 4.3 A/12 Vdc or 1.9 A/24 Vdc (36240)
Lens angle	15°
Optical window	High-grade polycarbonate glass
Luminous flux	max. 1.900 lm (1280) max. 5.700 lm (36240)
ASTEL protocol default address	1
Operating temperature	-10°C - +50°C
Casing	Stainless steel (316L)
Protection	IP 68
Dimensions	Ø145 x 31 mm (1280) Ø189 x 31 mm (36240)
Weight	2.4 kg (1280) 3.5 kg (36240)

Ordering Code:



Model	Color of lighting	Mounting assembly
LPR1280	M	-blank-
LPS1280	WW	FLM12
LPR36240	CW	SLM12
LPS36240		HFL12
		HFL-SQ12
		FLM36
		SLM36
		HFL36
		HFL-SQ36

Example: CASCADA LPR36240-M-FLM36

Model	Description
LPR1280	Rear Cable Inlet
LPS1280	Side Cable Inlet
LPR36240	Rear Cable Inlet
LPS36240	Side Cable Inlet

Color of lighting	Description
WW	Warm White
CW	Cool White
M	Multi-Color RGB

Mounting assembly	Description
-blank-	Fountain Light
FLM12	Flood Light (1280 models)
SLM12	Surface Light (1280 models)
HFL12	Outdoor Light, Round (1280 models)
HFL-SQ12	Outdoor Light, Square (1280 models)
FLM36	Flood Light (36240 models)
SLM36	Surface Light (36240 models)
HFL36	Outdoor Light, Round (36240 models)
HFL-SQ36	Outdoor Light, Square (36240 models)

Fountain LED Lights

FOUNTAIN FLOOD LIGHT mounting assembly

FLM12

Material Stainless steel (SAE316L)
Dimensions $\varnothing 40 \times 208$ (170 mm)
Weight 1.5 kg

FLM36

Material Stainless steel (SAE316L)
Dimensions $\varnothing 65 \times 205$ mm (170mm)
Weight 1.9 kg

Ordering Code	Description
FLM12	Flood light mounting assembly (1280 models)
FLM36	Flood light mounting assembly (36240 models)

FOUNTAIN SURFACE LIGHT mounting assembly

SLM12

Material Stainless steel (SAE316L)
Dimensions $\varnothing 40 \times 110$ mm
Weight 0.4 kg

SLM36

Material Stainless steel (SAE316L)
Dimensions $\varnothing 65 \times 110$ mm
Weight 0.8 kg

Ordering Code	Description
SLM12	Surface light mounting assembly (1280 models)
SLM36	Surface light mounting assembly (36240 models)



FLM



SLM

- Stainless Steel Based
- Sand-Blasting Finishing

Fountain LED Lights



HFL



HFL-SQ

- Stainless Steel/Aluminium Based
- Sand-Blasting/Anodizing E6C0 Finishing

FOUNTAIN OUTDOOR LIGHT mounting assembly

HFL12

Material: Stainless steel (SAE316L) / Anodized Aluminium
 Dimensions: Ø145 x 95mm
 Weight: 3.3 kg

HFL-SQ12

Material: Stainless steel (SAE316L) / Anodized Aluminium
 Dimensions: 150 x 150 x 25mm
 Weight: 1 kg

HFL36

Material: Stainless steel (SAE316L) / Anodized Aluminium
 Dimensions: Ø189 x 95mm
 Weight: 5.7 kg

HFL-SQ36

Material: Stainless steel (SAE316L) / Anodized Aluminium
 Dimensions: 216 x 190 x 82mm
 Weight: 5 kg

Ordering Code	Description
HFL12	Heatsink flood light assembly, round (1280 models)
HFL-SQ12	Heatsink flood light assembly, square (1280 models)
HFL36	Heatsink flood light assembly, round (36240 models)
HFL-SQ36	Heatsink flood light assembly, square (36240 models)



Courtesy LED Lights

Very innovative multi-color RGB LED light built-in waterproof stainless steel casing with different front shapes and lighting angles. It is suitable for using as interior and exterior downlight, step or staircase light to light to the floor under the angle of 45 degrees or straight.

The main feature is that ARCUS allows changing of the color of lighting manually or automatically through the complete rainbow spectrum.

The most advanced electronic design with built-in microprocessor enables network connection and simple control of complete group of the lights

Built-in ASTEL protocol enables complete lighting control by using optional DMX512 interface LXU01.

ARCUS

Power supply	12-24 Vdc, max. 32 mA/12 Vdc or 18 mA/24 Vdc
Lens angle	60° (angular) or 90° (straight)
Optical window	High-grade polycarbonate glass
Luminous flux	9 lm
Lighting color	RGB spectrum
Operating temperature	-10°C - +50°C
Casing	Stainless steel (SAE316L)
Protection	IP 68
Dimensions	Ø40 mm x 26mm (slope front shape) Ø50 mm x 26mm (gentle front shape)
Mounting hole	21mm
Weight	75g (slope front shape) 95g (gentle front shape)

Model	Description
LRM01	1 LED Array

Front shape	Description
S	Round, slope
QS	Square, slope
G	Round, gentle
QG	Square, gentle

Direction of lighting	Description
S	Straight
A	Angular

Color of lighting	Description
M	RGB multi-color



- Innovative Design
- Stainless Steel Casings
- Different Face Shapes
- Multi-Color RGB Lighting
- Reflector with Holographic Diffuser
- Microprocessor Control
- DMX512 Network Control
- Polarity Protection
- Transient Protection
- Wide Range Power Supply
- Low Power Consumption
- Simple Installation



Recessed LED Downlights

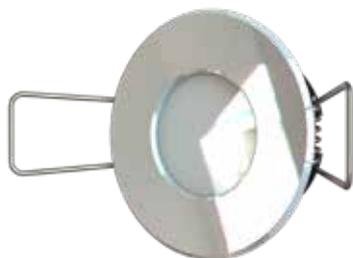
Compact LED light with electronic driver built-in waterproof anodized aluminium casing designed by using 1 high-power LED or LED array with built-in microprocessor which enables network connections and remote control with digital dimming.

Multi-color RGBW models offer the best illumination quality of different white lighting and microprocessor-controlled changing of white and all other colors of lighting manually or automatically through the complete rainbow spectrum. The light is designed to adjust the requested white lighting in 21 steps.

Built-in ASTEL protocol enables complete lighting control by using optional DMX512 interface LXU01.

Advanced optical system with reflector and holographic diffuser allows perfect light spread with different color temperature options for interior and exterior.

Due to wide range of prestige massive face shapes made of aluminium or stainless steel the INTENSA is suitable to fit in luxury designed interiors and exteriors.



- Anodized Aluminium Casings
- 1 High-Power LED or LED array Design
- Different Face Shapes and Finishes
- Warm White, Daylight White, Red, Green, Blue, or Multi-Color Lighting
- Reflector with Holographic Diffuser
- Microprocessor Control
- Digital Dimming
- DMX512 Network Control
- Polarity Protection
- Transient Protection
- Thermal Protection
- Wide Range Power Supply
- Low Power Consumption
- Simple Installation

INTENSA

Power supply	12 - 24 Vdc, max. 130 mA
Lens angle	130°
Optical window	High Grade Polycarbonate Glass
Luminous flux	max. 130 lm
White color temperature	4500K (daylight) or 3000K (warm)
Casing	Black anodized aluminium
Protection	IP65
Dimensions	max. Ø58 x 25 mm
Mounting hole	Ø48mm x 24mm
Weight	Aluminium front shape 70g Stainless steel front shape 100g

Model	Description
LRM0110	1 High-Power LED or LED Array

Control	Description
I	Internal dimming control, 2-wire system
E	External dimming control, 3-wire system

Front shape	Description
MAW	Round, modern, painted white aluminium
MAB	Round, modern, painted beige aluminium
MSP	Round, modern, polished stainless steel
MSG	Round, modern, polished gold (PVD) stainless steel
MSS	Round, modern, satin stainless steel
QMAW	Square, modern, painted white aluminium
QMAB	Square, modern, painted beige aluminium
QMSP	Square, modern, polished stainless steel
QMSG	Square, modern, polished gold (PVD) stainless steel
QMSS	Square, modern, satin stainless steel

Color of lighting	Description
W	Warm White
D	Daylight White
R	Red
G	Green
B	Blue
M	Red + Green + Blue + Warm White



Recessed LED Downlights

Compact LED light with electronic driver built-in waterproof anodized aluminium casing designed by using 1, 2 or 6 high-power LEDs with built-in microprocessor which enables network connections and remote control with digital dimming.

Multi-color RGBW models offer the best illumination quality of different white lighting and microprocessor-controlled changing of white and all other colors of lighting manually or automatically through the complete rainbow spectrum. The light is designed to adjust the requested white lighting in 21 steps.

Built-in ASTEL protocol enables complete lighting control by using optional DMX512 interface LXU01.

Advanced optical system with reflector and holographic diffuser allows perfect light spread with different color temperature options for interior and exterior.

Due to wide range of prestige massive face shapes made of aluminium or stainless steel the INTENSA is suitable to fit in luxury designed interiors and exteriors.



- Anodized Aluminium Casings
- 1, 2 or 6 High-Power LEDs
- Different Face Shapes and Finishes
- Warm White, Daylight White, Red, Green, Blue, or Multi-Color Lighting
- Reflector with Holographic Diffuser
- Microprocessor Control
- Digital Dimming
- DMX512 Network Control
- Polarity Protection
- Transient Protection
- Thermal Protection
- Wide Range Power Supply
- Low Power Consumption
- Simple Installation

INTENSA

Power supply	12-24 Vdc, max. 250 mA/12Vdc or max. 125 mA/24Vdc (1 LED) 12-24 Vdc, max. 400 mA/12Vdc or max. 200 mA/24Vdc (2 LEDs) 12-24 Vdc, max. 650 mA/12Vdc or max. 350 mA/24Vdc (6 LEDs)
Lens angle	130° (1 LED, 2 LEDs) 120° (6 LEDs)
Optical window	High Grade Polycarbonate Glass
Luminous flux	max. 270 lm (1 LED) max. 450 lm (2 LEDs) max. 550 lm (6 LEDs)
White color temperature	4500K (daylight) or 3000K (warm)
Casing	Black anodized aluminium
Protection	IP65
Dimensions	Ø79 x 26mm (C) or Ø79 x 23mm (M) (1 LED, 2 LEDs) Ø79 x 37mm (C) or Ø79 x 34mm (M) (6 LEDs)
Mounting hole	Ø68mm
Weight	Aluminium front shape 145g (C) or 125g (M) Stainless steel front shape 225g (C) or 160g (M)

Model	Description
LRM0115	1 High-Power LED
LRM0220	2 High-Power LEDs
LRM0620	6 High-Power LEDs

Control	Description
I	Internal dimming control, 2-wire system
E	External dimming control, 3-wire system

Front shape	Description
CAW	Round, classic, painted white aluminium
CAB	Round, classic, painted beige aluminium
CSP	Round, classic, polished stainless steel
CSG	Round, classic, polished gold (PVD) stainless steel
CSS	Round, classic, satin stainless steel
MAW	Round, modern, painted white aluminium
MAB	Round, modern, painted beige aluminium
MSP	Round, modern, polished stainless steel
MSG	Round, modern, polished gold (PVD) stainless steel
MSS	Round, modern, satin stainless steel
QMAW	Square, modern, painted white aluminium
QMAB	Square, modern, painted beige aluminium
QMSP	Square, modern, polished stainless steel
QMSG	Square, modern, polished gold (PVD) stainless steel
QMSS	Square, modern, satin stainless steel

Color of lighting	Description
LRM0115 - LRM0220	
W	Warm White
D	Daylight White
R	Red
G	Green
B	Blue

Color of lighting	Description
LRM0620	
M	Red + Green + Blue + Warm White



Recessed LED Downlights

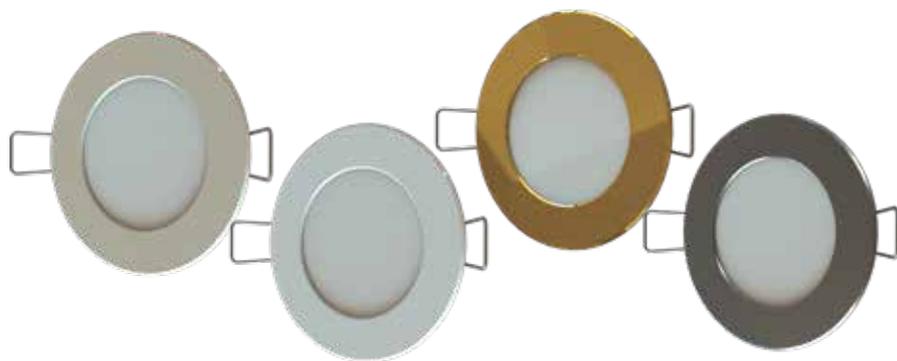
Compact LED light with electronic driver built-in waterproof anodized aluminium casing designed by using 2, 3 or 6 high-power LEDs with built-in microprocessor which enables network connections and remote control with digital dimming.

Multi-color RGBW models offer the best illumination quality of different white lighting and microprocessor-controlled changing of white and all other colors of lighting manually or automatically through the complete rainbow spectrum. The light is designed to adjust the requested white lighting in 21 steps.

Built-in ASTEL protocol enables complete lighting control by using optional DMX512 interface LXU01.

Advanced optical system with reflector and holographic diffuser allows perfect light spread with different color temperature options for interior and exterior.

Due to wide range of prestige massive face shapes made of aluminium or stainless steel the INTENSA is suitable to fit in luxury designed interiors and exteriors.



- Anodized Aluminium Casings
- 2, 3 or 6 High-Power LEDs
- Different Face Shapes and Finishes
- Warm White, Daylight White, Red, Green, Blue, or Multi-Color Lighting
- Reflector with Holographic Diffuser
- Microprocessor Control
- Digital Dimming
- DMX512 Network Control
- Polarity Protection
- Transient Protection
- Thermal Protection
- Wide Range Power Supply
- Low Power Consumption
- Simple Installation

INTENSA

Power supply	12-24 Vdc, max. 500 mA/12Vdc or max. 260 mA/24Vdc (2 LEDs) 12-24 Vdc, max. 800 mA/12Vdc or max. 420 mA/24Vdc (3 LEDs) 12-24 Vdc, max. 650 mA/12Vdc or max. 350 mA/24Vdc (6 LEDs)
Lens angle	130°
Optical window	High Grade Polycarbonate Glass
Luminous flux	max. 530 lm (2 LEDs) max. 800 lm (3 LEDs) max. 1.300 lm (3 High-Intensity LEDs) max. 550 lm (6LEDs)
White color temperature	4500K (daylight) or 3000K (warm) (2 LEDs, 3LEDs) Adjustable, from 2500K to 7500K in 21 steps (6 LEDs)
Casing	Black anodized aluminium
Protection	IP65
Dimensions	Ø105 x 30mm
Mounting hole	Ø79mm
Weight	Aluminium front shape 190g Stainless steel front shape 250g

Model	Description
LRM0230	2 High-Power LEDs
LRM0340	3 High-Power LEDs
LRM0380	3 High-Intensity LEDs
LRM0625	6 High-Power LEDs

Control	Description
I	Internal dimming control, 2-wire system
E	External dimming control, 3-wire system

Front shape	Description
MAW	Round, modern, painted white aluminium
MAB	Round, modern, painted beige aluminium
MSP	Round, modern, polished stainless steel
MSG	Round, modern, polished gold (PVD) stainless steel
MSS	Round, modern, satin stainless steel
QMAW	Square, modern, painted white aluminium
QMAB	Square, modern, painted beige aluminium
QMSP	Square, modern, polished stainless steel
QMSG	Square, modern, polished gold (PVD) stainless steel
QMSS	Square, modern, satin stainless steel

Color of lighting	Description
LRM0230 - LRM0340	
W	Warm White
D	Daylight White
R	Red
G	Green
B	Blue

Color of lighting	Description
LRM0380	
W	Warm White
D	Daylight White

Color of lighting	Description
LRM0625	
M	Red + Green + Blue + Warm White



Surface-Mount LED Downlights

Compact LED light with electronic driver built-in waterproof anodized aluminium casing designed by using 1, 3 or 6 high-power LEDs with built-in microprocessor which enables network connections and remote control with digital dimming.

Advanced optical system with reflector and holographic diffuser allows perfect light spreading. Different color temperature options offer right solutions for the interior and exterior.

Due to wide range of prestige massive face shapes made of aluminium or stainless steel the ASTRA is suitable to fit in luxury designed interiors and exteriors.



- Innovative Design
- 1, 3 or 6 High-Power LEDs
- Anodized Aluminium Casings
- Massive Face Shapes and Finishes
- Warm White, Daylight White, Red, Green or Blue Lighting
- Reflector with Holographic Diffuser
- Microprocessor Control
- Digital Dimming
- DMX512 Network Control
- Polarity Protection
- Transient Protection
- Thermal Protection
- Wide Range Power Supply
- Low Power Consumption
- Simple Installation

ASTRA

Power supply	12-24 Vdc, max. 300 mA/12Vdc or max. 155 mA/24Vdc (1 LED) 12-24 Vdc, max. 330 mA/12Vdc or max. 185 mA/24Vdc (3 LEDs) 12-24 Vdc, max. 600 mA/12Vdc or max. 315 mA/24Vdc (6 LEDs)
Lens angle	100°
Optical window	High Grade Polycarbonate Glass
Luminous flux	max. 270 lm (1 LED) max. 430 lm (3 LEDs) max. 870 lm (6LEDs)
White color temperature	4500K (daylight) or 3000K (warm)
Casing	Black anodized aluminium
Protection	IP65
Dimensions	Ø88 x 12mm (1 LEDs, 3 LEDs) Ø108 x 12mm (6 LEDs)
Weight	Aluminium front shape 170g (1 LEDs, 3 LEDs) or 250g (6 LEDs) Stainless steel front shape 260g (1 LEDs, 3 LEDs) or 350g (6 LEDs)

Model	Description
LSM0115	1 High-Power LED
LSM0320	3 High-Power LEDs
LSM0650	6 High-Power LEDs

Control	Description
I	Internal dimming control, 2-wire system
E	External dimming control, 3-wire system

Front shape	Description
AW	Painted white aluminium
AB	Painted beige aluminium
SP	Polished stainless steel
SG	Polished gold (PVD) stainless steel
SS	Satin stainless steel

Color of lighting	Description
W	Warm White
D	Daylight White
R	Red
G	Green
B	Blue



Interior LED Lights

Modular interior LED light with Direct-Drive LED mains power supply designed with advanced optical holographic propagation technology which allows perfect light spreading and the best illumination quality with three different white color temperature options.

Anodized aluminium casing is designed with different mounting assemblies for creating unique configurations and structures to achieve unique modern design and appearance of the complete line of interior lights.

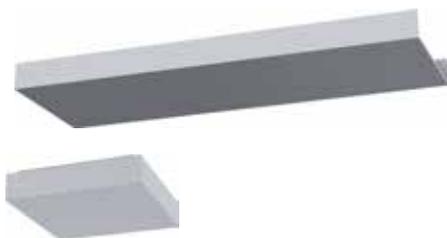
Built-in microprocessor enables network connections and remote control with digital dimming.

Built-in ASTEL protocol enables complete DMX512 lighting control by using of optional interfaces.

All models are designed for operating at room temperature conditions with thermal, transient and reverse polarity protections.



- Anodized Aluminium Casings
- Sand-Blasting and Anodizing E6C0 Finishing / Painting
- Mid-Power LED Array
- Warm, Daylight or Cool White Lighting
- High Grade Polycarbonate Glass Optical Window
- Reflector with Holographic Diffuser
- AC Direct-Drive LED Mains Power Supply
- Flicker-Free Triac and Phase Dimming
- Built-in ASTEL Protocol for DMX512 Control*
- AC Power Line Surge Protection
- Low Power Consumption
- Simple Installation



- Aluminium Based
- Sand-Blasting and Anodizing E6C0 Finishing / Painting

QUADRO

Power supply	230 Vac / 90 mA max.
Optical window	High Grade Polycarbonate Glass
Color Rendering Index (CRI)	90
Luminous flux	max. 1.800 lm (cool white)
ASTEL protocol default address	1
Casing	Aluminium
Operating temperature	-10°C - +40 °C
Dimensions (panel)	100 x 100 x 53 mm
Weight	1 kg

Model	Description
LQ01	1 LED Array Panel

Control	Description
T	Dimming (triac)
I	Switch dimming
E	Smart dimming

Color of casing	Description
W	White
B	Black

Color of lighting	Description
WW	Warm White
DW	Daylight White
CW	Cool White

BLANK assembly

Dimensions (panel)	100 x 300 x 22 mm (LQBL)
	100 x 100 x 22 mm (LQBS)
	100 x 100 x 22 mm (LQBT)
Weight	900 g (LQBL)
	300 g (LQBS)
	400 g (LQBT)

Ordering Code	Description
LQBLW	Blank Assembly - Long, White
LQBLB	Blank Assembly - Long, Black
LQBSW	Blank Assembly - Short, White
LQBSB	Blank Assembly - Short, Black
LQBTW	Blank Assembly - Terminating, White
LQBTB	Blank Assembly - Terminating, Black



Interior LED Lights

Interior LED light with Direct-Drive LED mains power supply designed with advanced optical holographic propagation technology which allows perfect light spreading and the best illumination quality with three different white color temperature options.

Anodized aluminium casing of the LED Array Panel with combinations of different painted steel screens and mounting assemblies is designed to achieve unique modern design and appearance of the complete line of interior lights.

Built-in microprocessor enables network connections and remote control with digital dimming.

Built-in ASTEL protocol enables complete DMX512 lighting control by using of optional interfaces.

All models are designed for operating at room temperature conditions with thermal, transient and reverse polarity protections.



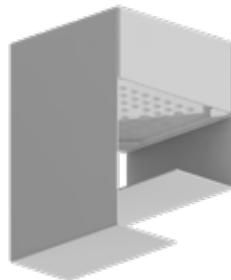
LQC01



LQDUAL01



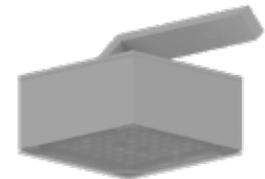
LQCONE01



LQSTEP01



LQF01



LQEAR01

- Anodized Aluminium / Steel Casings
- Sand-Blasting and Anodizing E6CO Finishing / Painting
- LED Array Panel LQ01
- Warm, Daylight or Cool White Lighting
- High Grade Polycarbonate Glass Optical Window
- Reflector with Holographic Diffuser
- AC Direct-Drive LED Mains Power Supply
- Flicker-Free Triac and Phase Dimming
- Built-in ASTEL Protocol for DMX512 Control*
- AC Power Line Surge Protection
- Low Power Consumption
- Simple Installation

QUADRO

Power supply	230 Vac / 90 mA max.
Optical window	High Grade Polycarbonate Glass
Color Rendering Index (CRI)	90
Luminous flux (LQ01)	max. 1.800 lm (cool white)
ASTEL protocol default address	1
Casing	Anodized Aluminium / Steel
Operating temperature	-10°C - +40°C
Dimensions (panel)	100 x 100 x 53 mm (LQC01) 102.5 x 105 x 342 mm (LQCONE01) 102.5 x 102.5 x 155 mm (LQDUAL01) 100 x 105 x 155 mm (LQSTEP01) 100 x 126 x 155 mm (LQF01) 100 x 116 x 116 mm (LQEAR01)
Weight	1.7 kg (LQC01) 1.7 kg (LQCONE01) 1.5 kg (LQDUAL01) 1.5 kg (LQSTEP01) 1.4 kg (LQF01) 0.8 kg (LQEAR01)

Model	Description
LQC01	LED Array Panel LQ01, Ceiling
LQCONE01	LED Array Panel LQ01, Ceiling
LQDUAL01	LED Array Panel LQ01, Ceiling
LQSTEP01	LED Array Panel LQ01, Ceiling
LQF01	LED Array Panel LQ01, Flood Light
LQEAR01	LED Array Panel LQ01, Flood Light

Control	Description
T	Dimming (triac)
I	Switch dimming
E	Smart dimming

Color of casing	Description
W	White
B	Black

Color of lighting	Description
WW	Warm White
DW	Daylight White
CW	Cool White



Interior LED Lights

Interior LED light with Direct-Drive LED mains power supply designed with advanced optical holographic propagation technology which allows perfect light spreading and the best illumination quality with three different white color temperature options.

Anodized aluminium casing of the LED Array Panel with combinations of different painted steel or natural stone veneer screens is designed to achieve unique modern design and appearance of the complete line of interior lights.

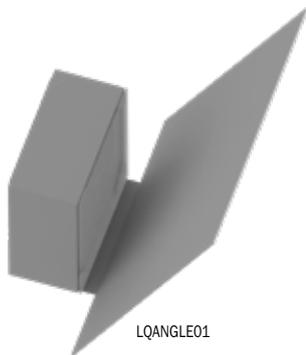
Built-in microprocessor enables network connections and remote control with digital dimming.

Built-in ASTEL protocol enables complete DMX512 lighting control by using of optional interfaces.

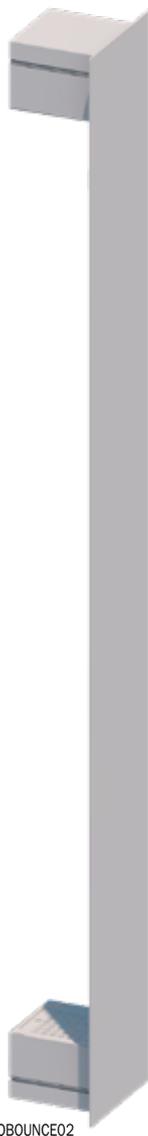
All models are designed for operating at room temperature conditions with thermal, transient and reverse polarity protections.



LQW01



LQANGLE01



LQBOUNCE02



LQSIDE01



LQW02

- Anodized Aluminium / Steel Casings
- Sand-Blasting and Anodizing E6CO Finishing / Painting
- LED Array Panel LQ01
- Warm, Daylight or Cool White Lighting
- High Grade Polycarbonate Glass Optical Window
- Reflector with Holographic Diffuser
- AC Direct-Drive LED Mains Power Supply
- Flicker-Free Triac and Phase Dimming
- Built-in ASTEL Protocol for DMX512 Control*
- AC Power Line Surge Protection
- Low Power Consumption
- Simple Installation

QUADRO

Power supply	230 Vac / 90 mA max.
Optical window	High Grade Polycarbonate Glass
Color Rendering Index (CRI)	90
Luminous flux (LQ01)	max. 1.800 lm (cool white)
ASTEL protocol default address	1
Casing	Anodized Aluminium / Steel
Operating temperature	-10°C - +40°C
Dimensions (panel)	100 x 100 x 53 mm (LQW01) 100 x 100 x 125 mm (LQW02) 200 x 175 x 166 mm (LQANGLE01) 104 x 104 x 175 mm (LQSIDE01) 1200 x 150 x 110 mm (LQBOUNCE02)
Weight	1.6 kg (LQW01) 2.0 kg (LQW02) 1.6 kg (LQANGLE01) 1.9 kg (LQSIDE01) 6.5 kg (LQBOUNCE02)

Model	Description
LQW01	LED Array Panel LQ01, Wall
LQW02	Double LED Array Panel LQ01, Wall
LQANGLE01	LED Array Panel LQ01, Wall
LQSIDE01	LED Array Panel LQ01, Wall
LQBOUNCE02	Double LED Array Panel LQ01, Wall

Type of screen (LQBOUNCE02)	Description
-	Painted Metal Plate
SF	Natural Stone Veneer 'Falling Leaves'
SR	Natural Stone Veneer 'Rustique'

Control	Description
T	Dimming (triac)
I	Switch dimming
E	Smart dimming

Color of casing	Description
W	White
B	Black

Color of lighting	Description
WW	Warm White
DW	Daylight White
CW	Cool White

NATURAL STONE VENEER



Interior LED Lights

Interior LED light with Direct-Drive LED mains power supply designed with advanced optical holographic propagation technology which allows perfect light spreading and the best illumination quality with three different white color temperature options.

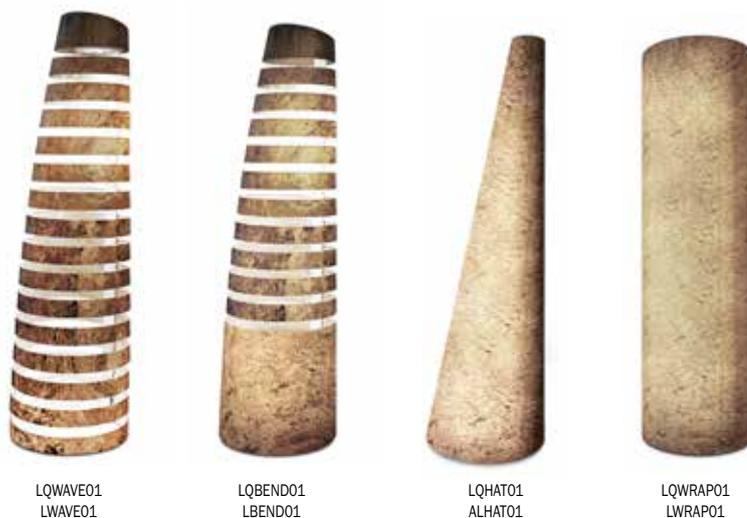
The basic LED Array Panel LQ01 with combinations of different assemblies made of translucent natural stone veneer allows the formation of different configurations and structures to achieve unique appearance of the complete line of interior floor lights.

Built-in microprocessor enables network connections and remote control with digital dimming.

Built-in ASTEL protocol enables complete DMX512 lighting control by using of optional interfaces.

All models are designed for operating at room temperature conditions with thermal, transient and reverse polarity protections.

The LED Array Panel LQ01 is replaced by E27 LED Bulb Socket for entry level models.



- Anodized Aluminium / Steel Casings
- Sand-Blasting and Anodizing E6C0 Finishing / Painting
- LED Array Panel LQ01 or E27 LED Bulb Socket
- Warm, Daylight or Cool White Lighting
- High Grade Polycarbonate Glass Optical Window
- Reflector with Holographic Diffuser
- Translucent Natural Stone Veneer Screen
- AC Direct-Drive LED Mains Power Supply
- Flicker-Free Triac and Phase Dimming
- Built-in ASTEL Protocol for DMX512 Control*
- AC Power Line Surge Protection
- Low Power Consumption
- Simple Installation

SPEIRA

Power supply	230 Vac / 90 mA max.
Optical window	High Grade Polycarbonate Glass
Color Rendering Index (CRI)	90
Luminous flux (LQ01)	max. 1.800 lm (cool white)
ASTEL protocol default address	1
Casing	Anodized Aluminium / Steel
Screen	Natural Stone Veneer
Operating temperature	-10 °C - +40 °C
Dimensions (panel)	Ø34 x 125 cm (LQWAVE01) Ø34 x 125 cm (LBEND01) Ø34 x 125 cm (LBEND01) Ø34 x 120 cm (LQHAT01) Ø34 x 120 cm (LHAT01) Ø34 x 120 cm (LQWRAP01) Ø34 x 120 cm (LWRAP01)
Weight	12 kg (LQWAVE01) 11.5 kg (LBEND01) 12 kg (LBEND01) 11.5kg (LBEND01) 12 kg (LQHAT01) 11.5 kg (LHAT01) 12 kg (LQWRAP01) 11.5 kg (LWRAP01)

Model	Description
LQWAVE01	LED Array Panel LQ01, Floor Light
LWAVE01	E27 LED Bulb Socket, Floor Light
LQBEND01	LED Array Panel LQ01, Floor Light
LBEND01	E27 LED Bulb Socket, Floor Light
LQHAT01	LED Array Panel LQ01, Floor Light
LHAT01	E27 LED Bulb Socket, Floor Light
LQWRAP01	LED Array Panel LQ01, Floor Light
LWRAP01	E27 LED Bulb Socket, Floor Light

Type of screen	Description
SF	 Natural Stone Veneer 'Falling Leaves'
SR	 Natural Stone Veneer 'Rustique'

Control (LQ)	Description
T	Dimming (triac)
I	Switch dimming
E	Smart dimming

Color of lighting (LQ)	Description
WW	Warm White
DW	Daylight White
CW	Cool White

NATURAL STONE VENEER



Interior LED Lights

Interior LED light with Direct-Drive LED mains power supply designed with advanced optical holographic propagation technology which allows perfect light spreading and the best illumination quality with three different white color temperature options.

The basic LED Array Panel LQ01 with combinations of different assemblies made of translucent natural stone veneer allows the formation of different configurations and structures to achieve unique appearance of the complete line of interior wall and ceiling lights.

Built-in microprocessor enables network connections and remote control with digital dimming.

Built-in ASTEL protocol enables complete DMX512 lighting control by using of optional interfaces.

All models are designed for operating at room temperature conditions with thermal, transient and reverse polarity protections.

The LED Array Panel LQ01 is replaced by E27 LED Bulb Socket for entry level models.



LQMUR001
LMUR001



LQTECT001
LTECT001



LQPLAF001
LPLAF001



LQTUEL001
LTUEL001

- Anodized Aluminium / Steel Casings
- Sand-Blasting and Anodizing E6CO Finishing / Painting
- LED Array Panel LQ01 or E27 LED Bulb Socket
- Warm, Daylight or Cool White Lighting
- High Grade Polycarbonate Glass Glass Optical Window
- Reflector with Holographic Diffuser
- Translucent Natural Stone Veneer Screen
- AC Direct-Drive LED Mains Power Supply
- Flicker-Free Triac and Phase Dimming
- Built-in ASTEL Protocol for DMX512 Control*
- AC Power Line Surge Protection
- Low Power Consumption
- Simple Installation

LAENA

Power supply	230 Vac / 90 mA max.
Optical window	High Grade Polycarbonate Glass
Color Rendering Index (CRI)	90
Luminous flux (LQ01)	max. 1.800 lm (cool white)
ASTEL protocol default address	1
Casing	Anodized Aluminium / Steel
Screen	Natural Stone Veneer
Operating temperature	-10°C - +40°C
Dimensions (panel)	30 x 21.5 x 19.5 mm (LQMUR001) 30 x 21.5 x 19.5 mm (LMUR001) Ø34 x 58 cm (LQTECT001) Ø34 x 58 cm (LTECT001) Ø34 x 58 cm (LQPLAF001) Ø34 x 58 cm (LPLAF001) Ø34 x 58 cm (LQTUEL001) Ø34 x 58 cm (LTUEL001)
Weight	1 kg (LQMUR001) 2 kg (LMUR001) 5.5 kg (LQTECT001) 5 kg (LTECT001) 5.5 kg (LQPLAF001) 5 kg (LPLAF001) 5.5 kg (LQTUEL001) 5 kg (LTUEL001)

Model	Description
LQMUR001	LED Array Panel LQ01, Wall/Ceiling
LMUR001	E27 LED Bulb Socket, Wall/Ceiling
LQTECT001	LED Array Panel LQ01, Ceiling
LTECT001	E27 LED Bulb Socket, Ceiling
LQPLAF001	LED Array Panel LQ01, Ceiling
LPLAF001	E27 LED Bulb Socket, Ceiling
LQTUEL001	LED Array Panel LQ01, Ceiling
LTUEL001	E27 LED Bulb Socket, Ceiling

Type of screen	Description
SF	Natural Stone Veneer 'Falling Leaves' 
SR	Natural Stone Veneer 'Rustique' 

Control (LQ)	Description
T	Dimming (triac)
I	Switch dimming
E	Smart dimming

Color of lighting (LQ)	Description
WW	Warm White
DW	Daylight White
CW	Cool White

NATURAL STONE VENEER



Interior OLED Lights

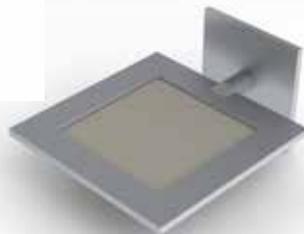
Compact OLED modular designed interior light with electronic driver built-in anodized aluminium casing with different mounting assemblies for creating unique configurations and structures. Built-in microprocessor enables network connections and remote control with digital dimming. Built-in ASTEL protocol enables complete DMX512 lighting control by using optional interfaces. Advanced lighting technology allows perfect light spreading and the best illumination quality (CRI 90) with two different white color temperature options. All models are designed for operating at normal temperature conditions with thermal, transient and reverse polarity protections.

VERSA

Power supply (panel)	10-30Vdc, max. 500mA/12Vdc or 250mA/24Vdc
Luminous flux	max. 300 lm (panel)
Color Rendering Index (CRI)	90
Operating temperature	-10°C - +40°C
Casing	Anodized Aluminium
Dimensions	155 x 155 x 5 mm (panel)
Weight	360 g (LWR01, LWS01) 580 g (LWS02)



LW01



LWR01



LWS01



LWS02

Model	Description
LW01	1 OLED Panel, Surface-mount
LWR01	1 OLED Panel, Right-angle
LWS01	1 OLED Panel, Straight
LWS02	2 OLED Panels, Straight

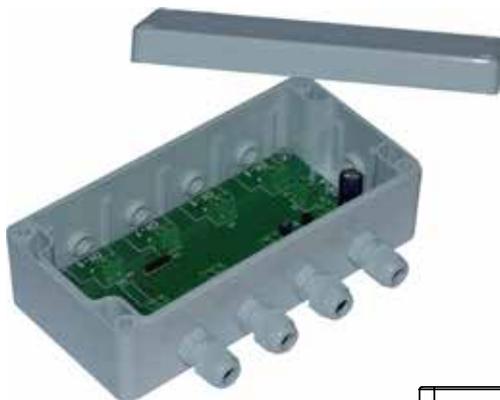
Color of lighting	Description
W	Warm White
D	Daylight White

- Modular Aluminium Design
- Sand-Blasting and Anodizing E6C0 Finishing
- 1 OLED Panel Basic Assembly
- Daylight White or Warm White
- Remote Control
- Digital Dimming
- Built-in ASTEL Protocol for DMX512 Control
- Polarity Protection
- Transient Protection
- Low Power Consumption
- Simple Installation

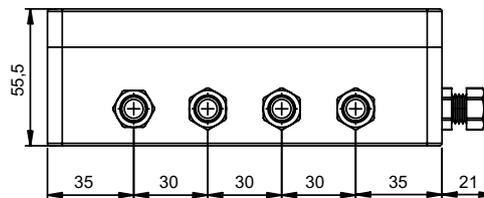
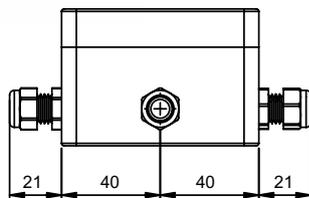


Accessories

Synchronization of the color of lighting for complete group of multi-color RGB lights when automatic changing the color of lighting through the complete rainbow spectrum is selected and controlled by using optional momentary switch.



- 8 Synchronization Outputs
- Wide Range Power Supply
- Low Power Consumption
- Polarity Protection
- Transient Protection
- Short Circuit Output Protection
- Simple Installation



Synchronization Unit LSU08

Input voltage	12-24 Vdc
Consumption	max. 10 mAdc
Operating temperature	-10°C - +50°C
Casing	ABS
Protection	IP 65
Dimensions	max. 181x122x55.5mm
Weight	0.3 kg

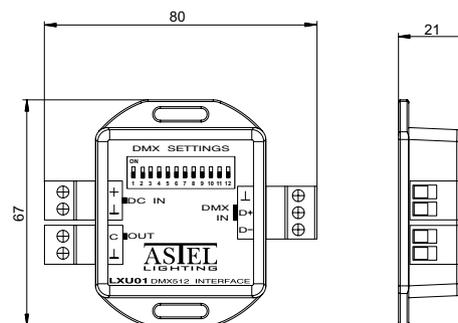
DMX512 to ASTEL protocol multi-light converter to control single-color or multi-color RGB light or one group of lights with built-in ASTEL protocol.



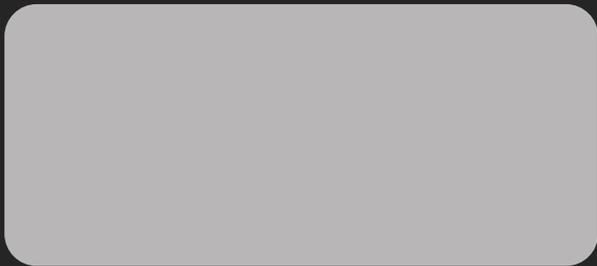
- 1 Control Output
- DIP-switch Programmable
- Multi - Speed Mode
- Wide Range Power Supply
- Low Power Consumption
- Polarity Protection
- Transient Protection
- Short Circuit Output Protection
- Simple Installation

DMX512 Interface LXU01

Input voltage	12-24 Vdc
Consumption	max. 50 mAdc
Operating temperature	-10°C - +50°C
Casing	ABS
Dimensions	max. 67x80x21mm
Weight	0.1 kg







ASTEL
LIGHTING

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