

ASTEL
LIGHTING



ARCHITECTURAL LIGHTING
2019

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 designed with advanced optical holographic propagation technology which allows perfect light spreading and the best illumination quality with two different white color temperature options and compact OLED (Organic LED) modular interior light 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.



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Due to continuous product improvement all specifications and design are subject to change without notice.



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
- 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:

SPARK [] - [] - []

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

Example: SPARK ENGWW3M-LTH790-LBRH

BEAM assembly

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

Ordering Code	Description
LBRD	High profile down-reflective beam 105mm
LBRH	High profile side-reflective beam 105mm
LBRL	Low profile side-reflective beam 60mm
LBDB	Direct no reflective beam 5mm

Path LED Lights



Ordering code 1	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

Ordering code 2	Description
1	1 LED
2	2 LEDs
3	3 LEDs
4	3 High-Intensity LEDs
5	3 High-Intensity LEDs

Ordering code 3	Description
N	Narrow Beam
M	Medium Beam
W	Wide Beam

- Aluminium Casing
- Sand-Blasting and Anodizing E6C0 Finishing



LTH790



LTH490



LTH190



LTH90

- Aluminium Based
- Sand-Blasting and Anodizing E6C0 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)

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)

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

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.

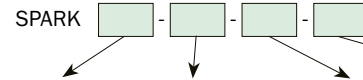


- Compact Aluminium Casing
- Sand-Blasting and Anodizing E6CO Finishing
- 1 High-Power LED Design
- Warm White, Daylight White, Cool White, Blue, Green, Red, Multi-Color RGB or Multi-Color RGBW Lighting
- High Grade PMMA or Polycarbonate Glass Optical Window
- Vacuum Metalized Reflector or High-Efficiency 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:



	Engine		Tube	Beam
0110	WW DW CW R G B RGB RGBW	N M W	LTH67 LTH232 LTH532 LTHCCH	LCBDB LCBRL LCBRH LCBRD

Example: SPARK 0110-RGBWN-LTH67-LCBRH

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
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

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



LPS1800



LBD1800



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 Stainless Steel or 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 FLBS FLBE
	ENGDW	2	M	
	ENGCW	3	W	
		4		
		5		
	ENGR	1		
		2		
		3		
	ENGRGB			

Example: SOLEA LB86-ENGCW3W-FLBW

BEZEL assembly

Material	Anodized aluminium
Dimensions	∅86 x 7 mm (LB86)
Weight	0.1 kg (LB86)

Ordering Code	Description
LB86	Bezel 86mm x 7mm

Flood LED Lights



Ordering code 1	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

Ordering code 2*	Description
1	1 LED
2	2 LEDs
3	3 LEDs
4	3 High-Intensity LEDs
5	3 High-Intensity LEDs

Ordering code 3	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° (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
0230SS	DW	M
0345SS	CW	W
0390SS		
03200SS		
0115SS	R	
0230SS	G	
0345SS	B	
0630SS	RGB	
	RGBW	
0110SS	WW	N
0110	DW	M
	CW	W
	R	
	G	
	B	
	RGB	
	RGBW	
		FMLBS
		FMLBE
		FCLBS
		FCLBE

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



Ordering code 1	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

Ordering code 2*	Description
1	1 LED
2	2 LEDs
3	3 LEDs
4	3 High-Intensity LEDs
5	3 High-Intensity LEDs

Ordering code 3	Description
N	Narrow Beam
M	Medium Beam
W	Wide Beam

- Aluminium Casing
- Sand-Blasting and Anodizing E6CO Finishing



LB86



LB100

- Aluminium Based
- 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)
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)
Optical window	15°(N), 40°(M), 120°(W) (RGBW)
	High-grade polycarbonate glass
	Luminous flux
	max. 270 lm (1 LED)
Operating temperature	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)
	-10°C - +40°C
	Casing
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)

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) $\varnothing 100 \times 60(70)$ mm (FLS100) $\varnothing 100 \times 130(140)$ mm (FLS30C100) $\varnothing 60 \times 83(93)$ 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	$\varnothing 100 \times 95$ mm $\varnothing 100 \times 195$ mm $\varnothing 100 \times 495$ mm $\varnothing 100 \times 795$ mm $\varnothing 100 \times C$ mm (customized) $\varnothing 30 \times 100$ mm $\varnothing 30 \times 200$ mm $\varnothing 30 \times 500$ mm $\varnothing 30 \times 800$ mm $\varnothing 30 \times C$ 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



LTH790-30



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.

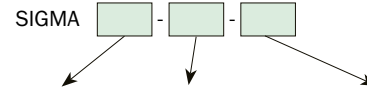


- Modular Aluminium Casing
- Sand-Blasting and Anodizing E6CO Finishing
- 1 High-Power LED Design
- Cool White, Daylight White, Warm White, Blue, Green, Red, Multi-Color RGB or Multi-Color RGBW Lighting
- High Grade Polycarbonate Glass Optical Window
- Vacuum Metalized Reflector or High-Efficiency Lens
- 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. 60 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

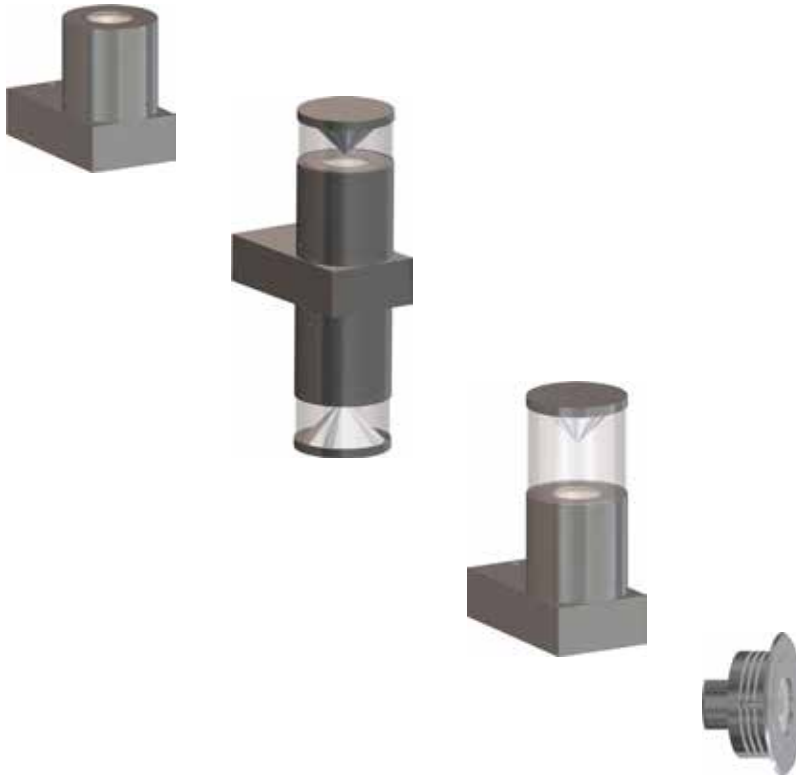
Beam	Description
N	Narrow
M	Medium
W	Wide

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.



WLSL

WSDL

- Aluminium Based
- Sand-Blasting and Anodizing E6C0 Finishing

SOMBRA

- Modular Stainless Steel or Aluminium Casing
- Sand-Blasting and/or Anodizing E6C0 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:

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

Support	Engine	Tube	Beam			
WLSL	ENGWW	1	N	LTH90	LBDB	
WSDL	ENGDW	2	M	LTH190	LBRL	
	ENG CW	3	W	LTH490	LBRH	
		4		LTH790	LBRD	
		5		LTHCH		
		ENGR		1		
		ENGG		2		
	ENGB	3				
	ENGRGB					
	ENGRGBW					
	Bezel	ENGWW	1	N		
ENGDW		2	M			
ENG CW		3	W			
		4				
		5				
		ENGR		1		
		ENGG		2		
ENGB		3				
ENGRGB						
ENGRGBW						

Example: SOMBRA WLSL-ENGRGB-LTH90-LBDB
SOMBRA WSDL-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

Ordering Code	Description
WLSL	Single side engine light support
WSDL	Dual side engine light support

Wall LED Lights



Ordering code 1	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

Ordering code 2*	Description
1	1 LED
2	2 LEDs
3	3 LEDs
4	3 High-Intensity LEDs
5	3 High-Intensity LEDs

Ordering code 3	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)
Optical window	High-grade polycarbonate glass
Luminous flux	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)
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

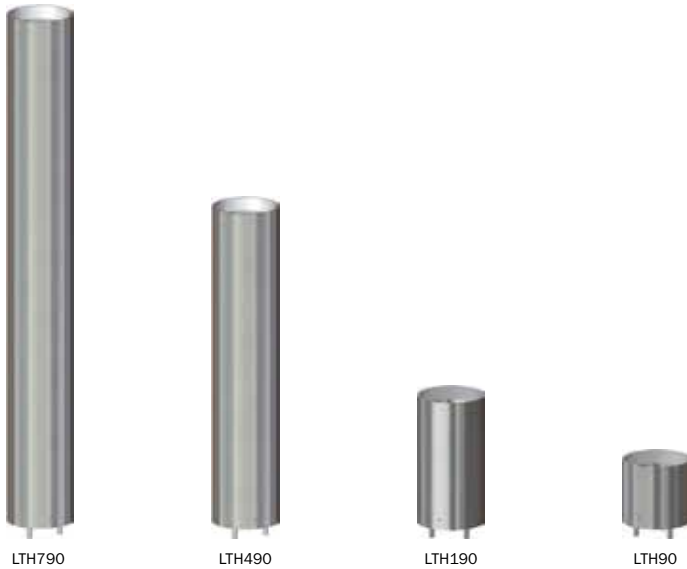
Ordering Code	Description
LB116	Bezel 116mm x 7 mm

Wall LED Lights

TUBE assembly

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

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



- Aluminium Based
- Sand-Blasting and Anodizing E6CO Finishing

BEAM assembly

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



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

Ordering Code	Description
LBRD	High profile down-reflective beam 105mm
LBRH	High profile side-reflective beam 105mm
LBRL	Low profile side-reflective beam 60mm
LBDB	Direct no reflective beam 5mm

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/or Anodizing E6CO Finishing
- 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
0110-WCLSDL	1 High-Power LED, dual, aluminium
0110-LB79	1 High-Power LED, flush-mount, aluminium
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

Beam	Description
N	Narrow
M	Medium
W	Wide

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

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

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

- only for dual engine types

Example: SOMBRA 0110-WCLSSL-RGBW-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

Modular 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.



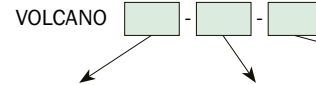
IGN

- Stainless Steel or Aluminium Casing with PC/PMMA Tube
- Sand-Blasting and/or Anodizing E6C0 Finishing

VOLCANO

- Modular Stainless Steel or Aluminium Casing
- Sand-Blasting and/or Anodizing E6C0 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 Polycarbonate Glass / Tempered 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:



Niche	Engine		Beam	
IGNSS	ENGGW	1	N	
IGNSB	ENGDW	2	M	
IGNAN	ENGCW	3	W	
IGNAB		4		
		5		
		ENGR		1
		ENGG		2
		ENGB		3
	ENGRGB ENGRGBW			
				IGBR120SS
				IGBR120SB
				IGBR120AN
				IGBR120AB
				IGBR240SS
IGBR240SB				
IGBR240AN				
IGBR240AB				
IGBR360SS				
IGBR360SB				
IGBR360AN				
IGBR360AB				

Example: VOLCANO IGNSS-ENGRGBW-IGBR360SS

INGROUND NICHE assembly

Material	Stainless steel (SAE316L) or Aluminium and PMMA
Dimensions	Ø140 x 140mm
Weight	1.2 kg (stainless steel) 500 g (aluminium)

Ordering Code	Description
IGNSS	Inground niche, Stainless steel, Sand-Blasted
IGNSB	Inground niche, Stainless Steel, Black Nitride
IGNAN	Inground niche, Aluminium, Neutral Anodized
IGNAB	Inground niche, Aluminium, Black Anodized

Inground LED Lights



Ordering code 1	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

Ordering code 2*	Description
1	1 LED
2	2 LEDs
3	3 LEDs
4	3 High-Intensity LEDs
5	3 High-Intensity LEDs

Ordering code 3	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	∅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)

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 (IGBR120SS, IGBR120SB) (stainless steel) 300 g (IGBR120AN, IGBR120AB) (aluminium) 0.7 kg (IGBR240SS, IGBR240SB) (stainless steel) 250 g (IGBR240AN, IGBR240AB) (aluminium) 0.6 kg (IGBR360SS, IGBR360SB) (stainless steel) 200 g (IGBR360AN, IGBR360AB) (aluminium)



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

Ordering Code	Description
IGBDSS	Direct no-reflective beam, Stainless steel, Sand-Blasted
IGBR120SS	Reflective beam 120 degrees, Stainless steel, Sand-Blasted
IGBR240SS	Reflective beam 240 degrees, Stainless steel, Sand-Blasted
IGBR360SS	Reflective beam 360 degrees, Stainless steel, Sand-Blasted
IGBDSB	Direct no-reflective beam, Stainless Steel, Black Nitride
IGBR120SB	Reflective beam 120 degrees, Stainless Steel, Black Nitride
IGBR240SB	Reflective beam 240 degrees, Stainless Steel, Black Nitride
IGBR360SB	Reflective beam 360 degrees, Stainless Steel, Black Nitride

Ordering Code	Description
IGBDAN	Direct no-reflective beam, Aluminium, Neutral Anodized
IGBR120AN	Reflective beam 120 degrees, Aluminium, Neutral Anodized
IGBR240AN	Reflective beam 240 degrees, Aluminium, Neutral Anodized
IGBR360AN	Reflective beam 360 degrees, Aluminium, Neutral Anodized
IGBDAB	Direct no-reflective beam, Aluminium, Black Anodized
IGBR120AB	Reflective beam 120 degrees, Aluminium, Black Anodized
IGBR240AB	Reflective beam 240 degrees, Aluminium, Black Anodized
IGBR360AB	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
0110-IGCNBS	DW	M
0110-IGCNAN	CW	W
0110-IGCNAB	R	
	G	
	B	
	RGB	
	RGBW	

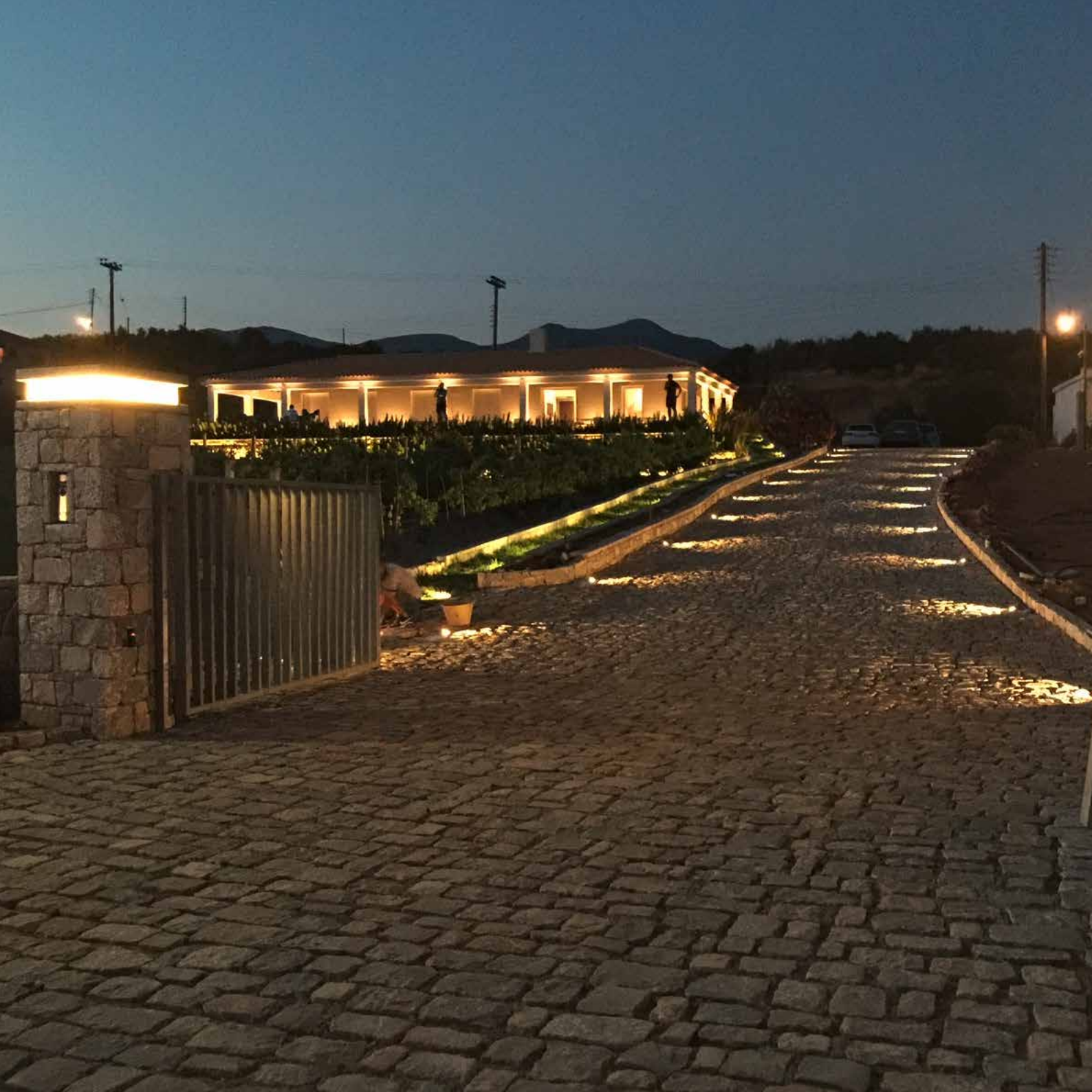
Example: VOLCANO 0110-IGCNBS-WWW-IGCBR360

Model	Description
0110-IGCNSS	1 High-Power LED, Stainless Steel, Sand-Blasting
0110-IGCNBS	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.

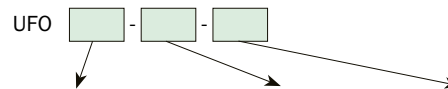


- Stainless Steel or Aluminium Casing
- Sand-Blasting and/or Anodizing E6C0 Finishing
- 1 High-Power LED Array
- Cool White, Warm White, Blue, Green, Red, Multi-Color RGB or Multi-Color RGBW Lighting
- High Grade Polycarbonate Glass / Tempered Glass Optical Window
- High-Efficiency Lens
- Remote Control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

UFO LSR0120

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 LPR1280 • CASCADA LPS1280

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

CASCADA LPR36240 • CASCADA LPS36240

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

Ordering Code:

CASCADA [] - [] - []

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)



FLM



SLM

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)

- Stainless Steel Based
- Sand-Blasting Finishing

Fountain LED Lights



HFL



HFL-SQ

- Stainless Steel/Aluminium Based
- Sand-Blasting/Anodizing E6CO 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 LRM01

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

RGB
MULTI-COLOR

SEOUL

Simply...the brightest



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 LRM0110

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

RGB
MULTI-COLOR

SEOUL

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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 LRM0115 • LRM0220 • LRM0620

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

RGB
MULTI-COLOR

SEOUL

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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

RGB
MULTI-COLOR

SEOUL

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INTENSA

LRM0230 • LRM0340 • LRM0380 • LRM0625

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 LSM0115 • LSM0320 • LSM0650

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



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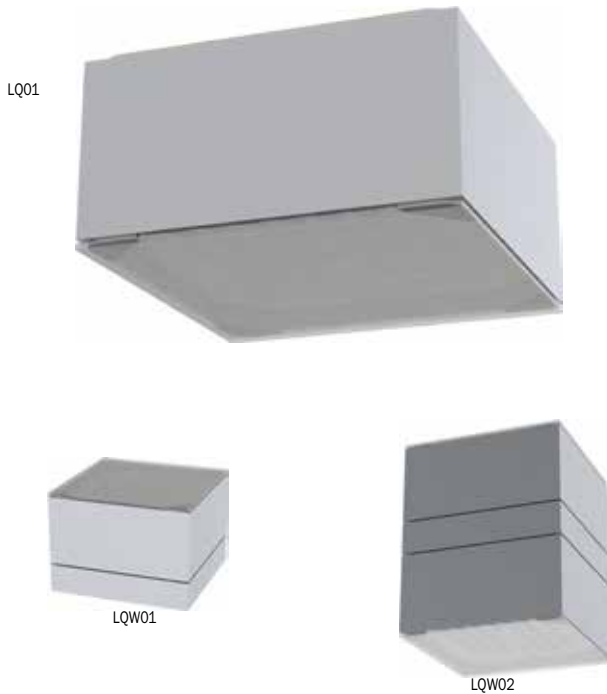
Interior LED Lights

Modular LED interior 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 two 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 normal temperature conditions with thermal, transient and reverse polarity protections.



QUADRO

Power supply	230 Vac / 90 mA max. (1 LED Array)
Optical window	High Grade Polycarbonate Glass
Color Rendering Index (CRI)	90
Luminous flux	max. 1.800 lm (cool white, 1 LED Array)
ASTEL protocol default address	1
Casing	Anodized Aluminium
Operating temperature	-10°C - +40°C
Dimensions (panel)	100 x 100 x 53 mm (LQ01)
Weight	1 kg (LQ01)

Model	Description
LQ01	1 LED Array Panel
LQC01	1 LED Array, Ceiling
LQW01	1 LED Array, Wall
LQW02	2 LED Arrays, Wall
LQF01	1 LED Array, Flood Light

Color of lighting	Description
WW	Warm White
DW	Daylight White

- Modular Anodized Aluminium Casings
- Sand-Blasting and Anodizing E6CO Finishing
- 1 Mid-Power LED Array
- Cool, Daylight or Warm White Lighting
- High Grade Polycarbonate Glass / Tempered 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

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
LQBL	Blank Assembly - Long
LQBS	Blank Assembly - Short
LQBT	Blank Assembly - Terminating



- Aluminium Based
- Sand-Blasting and Anodizing E6CO Finishing



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

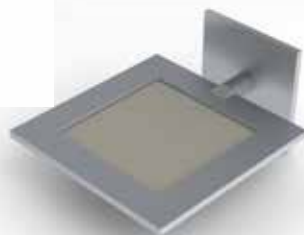
Power supply (panel)	10-30Vdc, max. 500mA/12Vdc or 250mA/24Vdc
Luminous flux	max. 300 lm (panel)
Color Rendering Index (CRI)	90
Operating temperature	-10°C - +40°C
Casing	Anodized Aluminium
Dimensions	155 x 155 x 5 mm (panel)
Weight	360 g (LWR01, LWS01)
	580 g (LWS02)

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



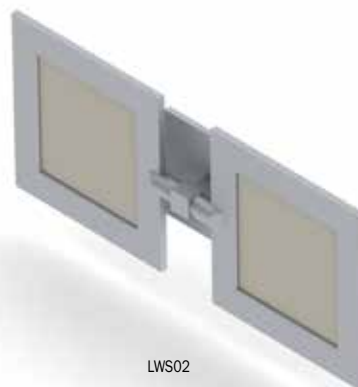
LW01



LWR01



LWS01



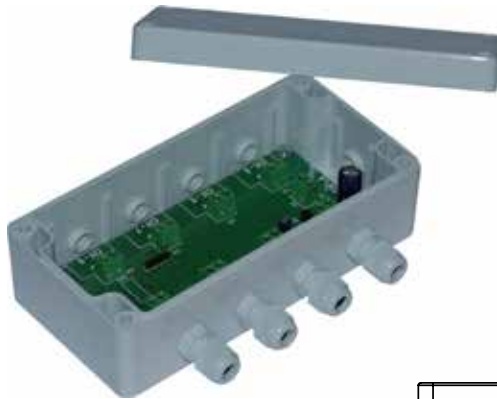
LWS02

- 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

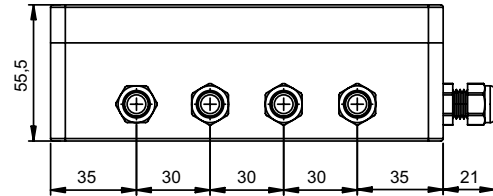
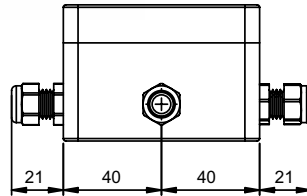


Accessories

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

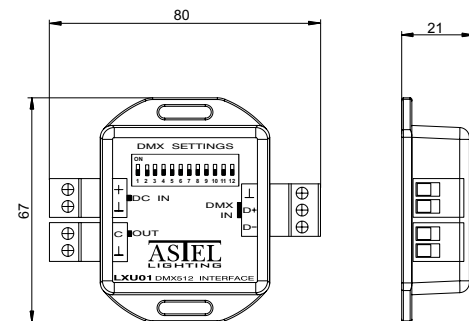
DMX512 to ASTEL protocol multi-light converter to control single-color or multi-color RGB light or one group of lights with built-in ASTEL protocol.



- 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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