



IDEAL FOUNTAINS <sup>TM</sup>

*Shaping Of Water* <sup>TM</sup>

1-833-433-2569

# Small Type Recessed LED Pool Light

HX69B-3  
Symmetrical



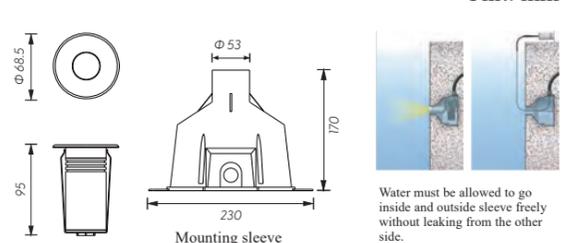
**Warning:**  
Must be installed underwater to prevent being damaged from over heating.



## DESCRIPTION

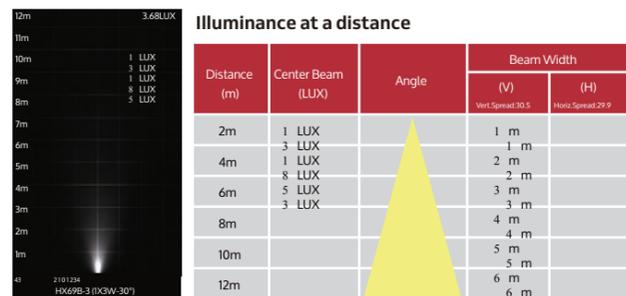
The recessed underwater light series is your solution to tight spaces. Whether installed free-standing or recessed, the HX69B provides sufficient illumination for most residential and indoor water features. This compact fixture is easily hidden from sight or even integrated with the hardscape to achieve better ambience. All Ideal LED lights can be programmed to dim, synchronize to create infinite combinations of kaleidoscopic displays.

## DIMENSIONS



## SPECIFICATIONS

- ◆ Front cover & Housing: hard chrome plated molding shaped stainless steel SUS 316
- ◆ Light Window: step tempered glass. T=7mm
- ◆ Gasket: silicone gasket
- ◆ Optional lens angle: 9°, 15°, 20°, 30°, 45°, 60°
- ◆ PCB: excellent heat conductivity aluminum, coefficient of heat conductivity  $\geq 2.0 \text{ w/mk}$
- ◆ LED colour temperature: 2,000K•3,000K•6,000K
- ◆ LED Driver: Constant Voltage Input, Constant Current Output
- ◆ Application environment: temperature of water between  $-20^{\circ}\text{C} \sim 40^{\circ}\text{C}$  less than 1 meter depth
- ◆ Mounting sleeve: PC/ABS ALLOYS
- ◆ Power cable: 3m STW 18AWG



## PERFORMANCE

Type	Light source	The manufacturer selected lens degree(θ1/2)	Input voltage (v)	Typical operating current (mA)	Typical consumption (w)	Typical luminance (lm)	IK rate
HX69B-3	1x3W	30°	24V DC	110	2.6	Cool white=174 Warm white=139	06

# Small Type Recessed LED Pool Light

HX69B-3T  
Symmetrical



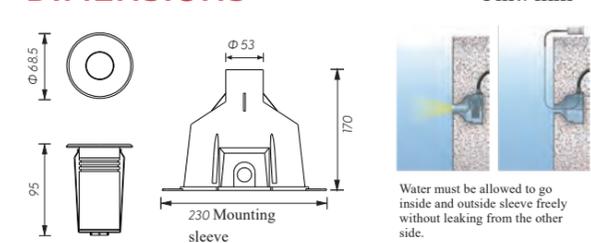
**Warning:**  
Must be installed underwater to prevent being damaged from over heating.



## DESCRIPTION

The recessed underwater light series is your solution to tight spaces. Whether installed free-standing or recessed, the HX69B provides sufficient illumination for most residential and indoor water features. This compact fixture is easily hidden from sight or even integrated with the hardscape to achieve better ambience. All Ideal LED lights can be programmed to dim, colour- change and synchronize to create infinite combinations of kaleidoscopic displays.

## DIMENSIONS



## SPECIFICATIONS

- ◆ Front cover & Housing: hard chrome plated molding shaped stainless steel SUS 316
- ◆ Light Window: step tempered glass. T=7mm
- ◆ Gasket: silicone gasket
- ◆ PCB: excellent heat conductivity aluminum, coefficient of heat conductivity  $\geq 2.0 \text{ w/mk}$
- ◆ Application environment: temperature of water between  $-20^{\circ}\text{C} \sim 40^{\circ}\text{C}$  less than 1 meter depth
- ◆ Mounting sleeve: PC/ABS ALLOYS
- ◆ Power cable: 3m STW 18AWG



## PERFORMANCE

Type	Light source	The manufacturer selected lens degree(θ1/2)	Input voltage (v)	Typical operating current (mA)	Typical consumption (w)	Typical luminance (lm)	IK rate
HX69B-3T	1x3W RGB 3in1 Full color	30°	24V DC	R=48 G=62 B=62	4.1	103	06



# Small Type Recessed LED Pool Light

HX69B-3E  
Asymmetrical



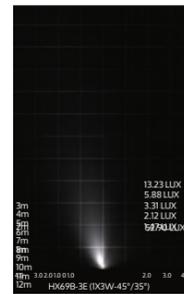
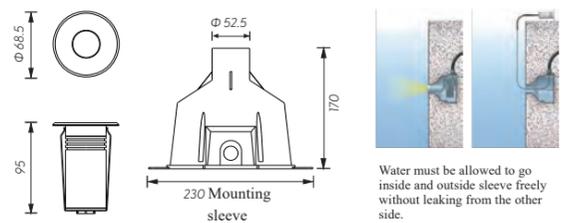
**Warning:**  
Must be installed in a place where contact water or under water to prevent being damaged from over heating.



## DESCRIPTION

The recessed underwater light series is your solution to tight spaces. Whether installed free-standing or recessed, the HX69B provides sufficient illumination for most residential and indoor water features. This compact fixture is easily hidden from sight or even integrated with the hardscape to achieve better ambience. All Ideal LED lights can be programmed to dim, synchronize to create infinite combinations of kaleidoscopic displays.

## DIMENSIONS



## Illuminance at a distance

Distance (m)	Center Beam (LUX)	Angle	Beam Width	
			(V)	(H)
2m	5 LUX		1.0m	0.8m
4m	5 LUX		1.9m	1.6m
6m	3 LUX		2.9m	2.4m
8m	2 LUX		3.8m	3.2m
10m	1 LUX		4.8m	4.0m
12m			5.7m	4.7m

## PERFORMANCE

Type	Light source	The manufacturer selected lens degree(θ1/2)	Input voltage (v)	Typical operating current (mA)	Typical consumption (w)	Typical luminance (lm)	IK rate
HX69B-3E	1x3W	45°/35°	24V DC	110	2.6	Cool white=143 Warm white=115	06

# Wall Recessed LED Pool Light



HX135B-S12  
Symmetrical



**Warning:**  
Must be installed in a place where contact water or under water to prevent being damaged from over heating.

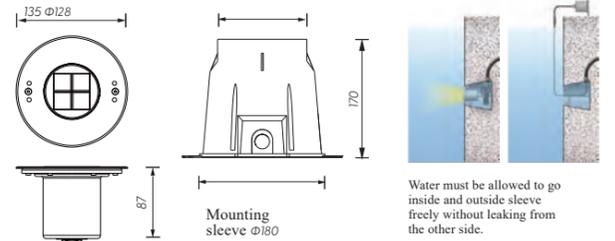


## DESCRIPTION

The simple yet elegant design of the recessed LED underwater light series adds a touch of refinement to any pool. The HX135B is the most compact in the series. Perfect for lighting shallow pools and spas as well as water displays up to a 2-metre spray height, its robust construction allows it to be installed in walls and on floors.

All Ideal LED lights can be programmed to dim, synchronize to create infinite combinations of kaleidoscopic displays.

## DIMENSIONS

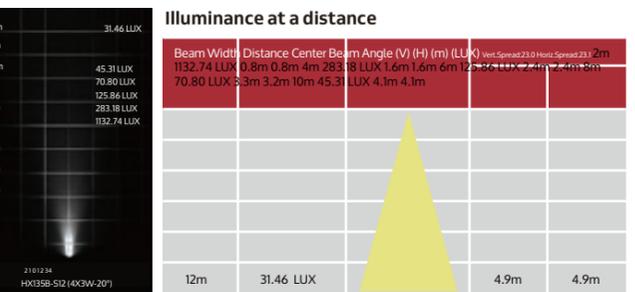


## SPECIFICATIONS

- Front cover & Housing: hard chrome plated molding shaped stainless steel SUS 316L
- Light Window: step tempered glass. T=8mm
- Gasket: silicone gasket
- Optional lens angle: 20°, 30°, 50°
- PCB: excellent heat conductivity aluminum, coefficient of heat conductivity ≥ 2.0w/mk
- LED colour temperature: 2,000K•3,000K•6,000K
- LED Driver: Constant Voltage Input, Constant Current Output
- Application environment: temperature of water between -20°C~40°C less than 1 meter depth
- Built-in overheat sensor system: automatic shutdown at 75°C
- Mounting sleeve: PC/ABS ALLOYS
- Cable gland: IP-68 PG-11 copper with nickel-coated
- Power cable: 3m STW 18AWG

## PERFORMANCE

Type	Light source	The manufacturer selected lens degree(θ1/2)	Input voltage (v)	Typical operating current (mA)	Typical consumption (w)	Typical luminance (lm)	IK rate
HX135B-S12	4x3W	20°	24V DC	510	12.2	997	08



## SLEEVE (Included)



A Water stopper  
The luminaire will generate high temperature when used, which will generate negative pressure when the power is turned off also brings water vapor into the luminaire. That's why the device is needed to prevent the water vapor go in.

B IP68 Jiffy quick plug/socket connector (Option) To prevent water vapor into luminaire via wire which had been cut, the air contains lots of steams when raining, spray or in humid environment, the luminaire will generate high temperature when used, which will generate negative pressure when the power is turned off also brings water vapor into the luminaire.





# Wall Recessed LED Pool Light



HX135B-8T  
Symmetrical



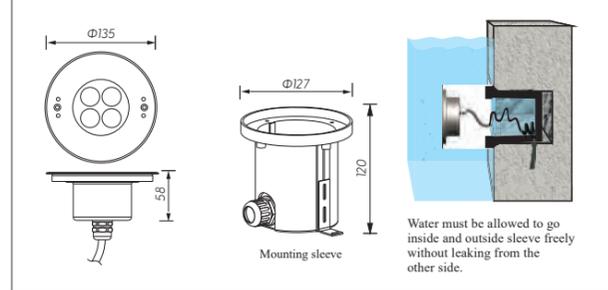
**Warning:**  
Must be installed underwater to prevent being damaged from over heating.



## DESCRIPTION

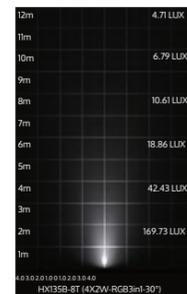
The simple yet elegant design of the recessed LED underwater light series adds a touch of refinement to any pool. The HX135B is the most compact in the series. Perfect for lighting shallow pools and spas as well as water displays up to a 2-metre spray height, its robust construction allows it to be installed in walls and on floors. All Ideal LED lights can be programmed to dim, colour-change and synchronize to create infinite combinations of kaleidoscopic displays.

## DIMENSIONS



## SPECIFICATIONS

- Front cover & Housing: hard chrome plated molding shaped stainless steel SUS 316L
- Light Window: step tempered glass. T=8mm
- Gasket: silicone gasket
- PCB: excellent heat conductivity aluminum, coefficient of heat conductivity  $\geq 2.0w/mk$
- Application environment: temperature of water between  $-20^{\circ}C \sim 40^{\circ}C$ , less than 1 meter depth
- Mounting sleeve: PC/ABS ALLOYS
- Cable gland: IP-68 PG-11 copper with nickel-coated
- Power cable: 3m STW 18AWG



## Illuminance at a distance

Distance (m)	Center Beam Angle (°)	Beam Width (m)	
		(V)	(H)
2m	169.73 LUX	0.8m	0.7m
4m	42.43 LUX	1.7m	1.7m
6m	18.86 LUX	2.5m	2.1m
8m	10.61 LUX	3.3m	2.8m
10m	6.79 LUX	4.1m	3.5m
12m	4.71 LUX	5.0m	4.2m

## PERFORMANCE

Type	Light source	The manufacturer selected lens degree(θ1/2)	Input voltage (v)	Typical operating current (mA)	Typical consumption (w)	Typical luminance (lm)	IK rate
HX135B-8T	4x2W RGB 3in1 Full color	30°	24 VDC	R=200 G=215 B=215	15	262	08

# Wall Recessed LED Pool Light



HX135B-S12E  
Asymmetrical



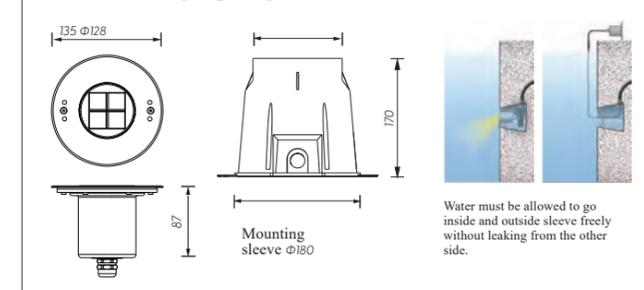
**Warning:**  
Must be installed underwater to prevent being damaged from over heating.



## DESCRIPTION

The simple yet elegant design of the recessed LED underwater light series adds a touch of refinement to any pool. The HX135B is the most compact in the series. Perfect for lighting shallow pools and spas as well as water displays up to a 2-metre spray height, its robust construction allows it to be installed in walls and on floors. All Ideal LED lights can be programmed to dim, synchronize to create infinite combinations of kaleidoscopic displays.

## DIMENSIONS



## SPECIFICATIONS

- Front cover & Housing: hard chrome plated molding shaped stainless steel SUS 316L
- Light Window: step tempered glass. T=8mm
- Gasket: silicone gasket
- Optional lens angle:  $10^{\circ} \times 14^{\circ}$ ,  $21^{\circ} \times 29^{\circ}$
- LED colour temperature: 2,000K\*3,000K\*6,000K
- PCB: excellent heat conductivity aluminum, coefficient of heat conductivity  $\geq 2.0w/mk$
- LED Driver: Constant Voltage Input, Constant Current Output
- Application environment: temperature of water between  $-20^{\circ}C \sim 40^{\circ}C$  less than 1 meter depth
- Built-in overheat sensor system: automatic shutdown at  $75^{\circ}C$
- Mounting sleeve: PC/ABS ALLOYS
- Cable gland: IP-68 PG-11 copper with nickel-coated
- Power cable: 3m STW 18AWG

## PERFORMANCE

Type	Light source	The manufacturer selected lens degree(θ1/2)	Input voltage (v)	Typical operating current (mA)	Typical consumption (w)	Typical luminance (lm)	IK rate
HX135B-S12E	4x3W	$21^{\circ} \times 29^{\circ}$	24V DC	510	12.2	926	08

## SLEEVE (Included)

A Water stopper (Included) The luminaire will generate high temperature when used, which will generate negative pressure when the power is turned off also brings water vapor into the luminaire. That's why the device is needed to prevent the water vapor go in.

BP68 Jiffy quick plug/socket connect to IP68 Jiffy quick plug/socket connector (Option) To prevent water vapor into luminaire via wire which had been cut, the air contains lots of steam when raining, spray or in humid environment, the luminaire will generate high temperature when used, which will generate negative pressure when the power is turned off also brings water vapor into the luminaire.



# Wall Recessed LED Pool Light



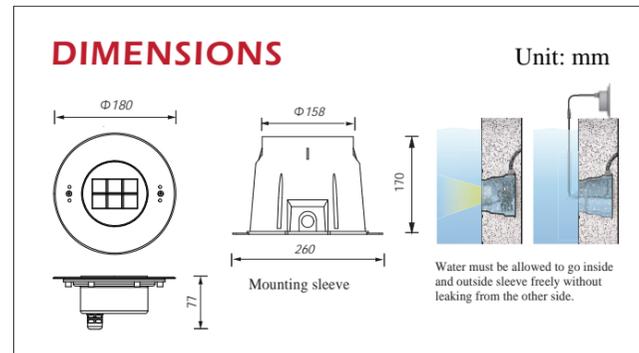
HX180B-S18  
Symmetrical



**Warning:**  
Must be installed underwater to prevent being damaged from over heating.

## DESCRIPTION

The simple yet elegant design of the recessed LED underwater light series adds a touch of refinement to any pool.  
The HX180B is ideal for lighting wading pools and spas as well as water displays up to a 5-metre spray height.  
Its robust construction allows it to be installed in walls and on floors.  
All Ideal LED lights can be programmed to dim, synchronize to create infinite combinations of kaleidoscopic displays.



## SPECIFICATIONS

- ◆ Front cover & Housing: hard chrome plated molding shaped stainless steel SUS 316L
- ◆ Light Window: step tempered glass. T=8mm
- ◆ Gasket: silicone gasket
- ◆ Optional lens angle: 20°, 30°, 50°
- ◆ PCB: excellent heat conductivity aluminum, coefficient of heat conductivity  $\geq 2.0 \text{ w/mk}$
- ◆ LED colour temperature: 2,000K•3,000K•6,000K
- ◆ LED Driver: Constant Voltage Input, Constant Current Output
- ◆ Application environment: temperature of water between  $-20^\circ\text{C} \sim 40^\circ\text{C}$  less than 1 meter depth
- ◆ Built-in overheat sensor system: automatic shutdown at  $75^\circ\text{C}$
- ◆ Mounting sleeve: PC/ABS ALLOYS
- ◆ Cable gland: IP-68 PG-11 copper with nickel-coated
- ◆ Power cable: 3m STW 18AWG

**ILLUMINANCE AT A DISTANCE**

Distance (m)	Center Beam (LUX)	Angle	Beam Width	
			(V)	(H)
2m	3328.76 LUX		0.7m	0.9m
4m	832.19 LUX		1.5m	1.9m
6m	369.86 LUX		2.2m	2.8m
8m	208.05 LUX		2.9m	3.7m
10m	133.15 LUX		3.7m	4.6m
12m	92.47 LUX		4.4m	5.6m



## PERFORMANCE

Type	Light source	The manufacturer selected lens degree(θ1/2)	Input voltage (v)	Typical operating current (mA)	Typical consumption (w)	Typical luminance (lm)	IK rate
HX180B-S18	6x3W	20°	24V DC	1020	24.5	1354	08

# Wall Recessed LED Pool Light



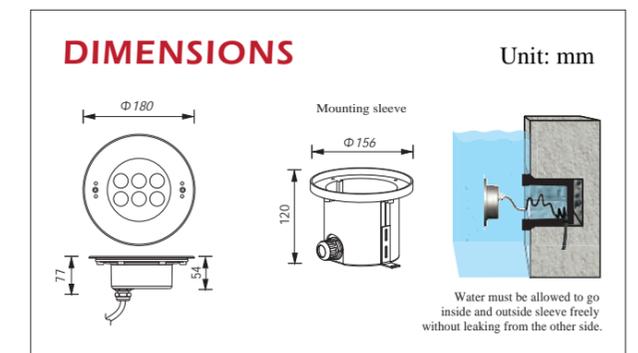
HX180B-12T  
Symmetrical



**Warning:**  
Must be installed underwater to prevent being damaged from over heating.

## DESCRIPTION

The simple yet elegant design of the recessed LED underwater light series adds a touch of refinement to any pool.  
The HX180B is ideal for lighting wading pools and spas as well as water displays up to a 5-metre spray height. Its robust construction allows it to be installed in walls and on floors.  
All Ideal LED lights can be programmed to dim, colour- change and synchronize to create infinite combinations of kaleidoscopic displays.



## SPECIFICATIONS

- ◆ Front cover & Housing: hard chrome plated molding shaped stainless steel SUS 316L
- ◆ Light Window: step tempered glass. T=8mm
- ◆ Gasket: silicone gasket
- ◆ PCB: excellent heat conductivity aluminum, coefficient of heat conductivity  $\geq 2.0 \text{ w/mk}$
- ◆ Application environment: temperature of water between  $-20^\circ\text{C} \sim 40^\circ\text{C}$ , less than 1 meter depth
- ◆ Mounting sleeve: PC/ABS ALLOYS
- ◆ Cable gland: IP-68 PG-11 copper with nickel-coated
- ◆ Power cable: 3m STW 18AWG

**ILLUMINANCE AT A DISTANCE**

Distance (m)	Center Beam (LUX)	Angle	Beam Width	
			(V)	(H)
2m	307.63 LUX		1.0m	1.0m
4m	76.91 LUX		2.0m	2.0m
6m	34.18 LUX		3.0m	2.5m
8m	19.23 LUX		4.0m	3.5m
10m	12.31 LUX		5.0m	4.5m
12m	8.55 LUX		6.0m	5.5m

## PERFORMANCE

Type	Light source	The manufacturer selected lens degree(θ1/2)	Input voltage (v)	Typical operating current (mA)	Typical consumption (w)	Typical luminance (lm)	IK rate
HX180B-12T	6x2W RGB 3in1 Full color	30°	24V DC	R=300 G=350 B=350	24	547	08



# Wall Recessed LED Pool Light



**HX180B-S18E**  
Asymmetrical



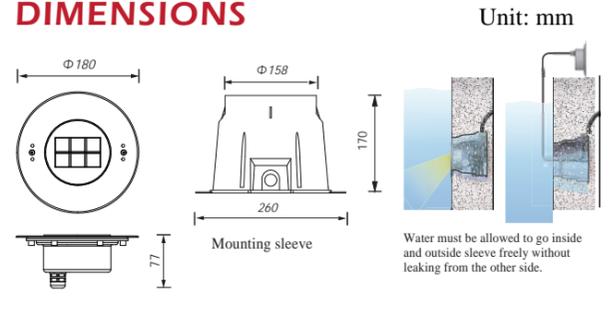
**Warning:**  
Must be installed underwater to prevent being damaged from over heating.



## DESCRIPTION

The simple yet elegant design of the recessed LED underwater light series adds a touch of refinement to any pool. The HX180B is ideal for lighting wading pools and spas as well as water displays up to a 5-metre spray height. Its robust construction allows it to be installed in walls and on floors. All Ideal LED lights can be programmed to dim, synchronize to create infinite combinations of kaleidoscopic displays.

## DIMENSIONS



## SPECIFICATIONS

- ◆ Front cover & Housing: hard chrome plated molding shaped stainless steel SUS 316L
- ◆ Light Window: step tempered glass. T=8mm
- ◆ Gasket: silicone gasket
- ◆ Optional lens angle: 10°×14°, 21°×29°
- ◆ PCB: excellent heat conductivity aluminum, coefficient of heat conductivity ≥ 2.0w/mk
- ◆ LED colour temperature: 2,000K•3,000K•6,000K
- ◆ LED Driver: Constant Voltage Input, Constant Current Output
- ◆ Application environment: temperature of water between -20°C ~ 40°C less than 1 meter depth
- ◆ Built-in overheat sensor system: automatic shutdown at 75°C
- ◆ Recessed sleeve: PC/ABS ALLOYS
- ◆ Cable gland: IP-68 PG-11 copper with nickel-coated
- ◆ Power cable: 3m STW 18AWG

**Illuminance at a distance**

Distance (m)	Center Beam (LUX)	Angle	Beam Width	
			(V)	(H)
2m	737.9 LUX		0.8m	1.0m
4m	184.48 LUX		1.6m	1.9m
6m	81.99 LUX		2.3m	2.9m
8m	46.12 LUX		3.1m	3.9m
10m	29.52 LUX		3.9m	4.8m
12m	20.5 LUX		4.7m	5.8m

## SLEEVE (Included)



## PERFORMANCE

Type	Light source	The manufacturer selected lens degree(θ1/2)	Input voltage (V)	Typical operating current (mA)	Typical consumption (W)	Typical luminance (lm)	IK rate
HX180B-S18E	6x3W	21°×29°	24V DC	1020	24.5	1210	08

# Wall Recessed LED Pool Light



**HX205B-S36**  
Symmetrical



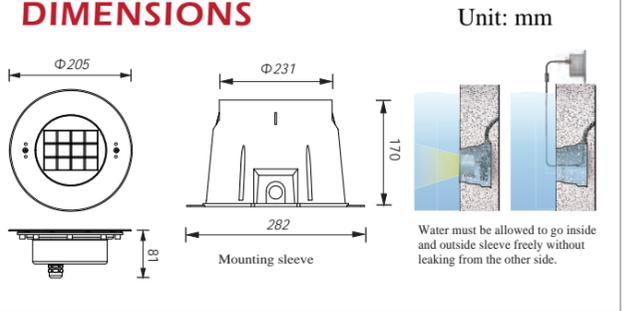
**Warning:**  
Must be installed underwater to prevent being damaged from over heating.



## DESCRIPTION

The simple yet elegant design of the recessed LED underwater light series adds a touch of refinement to any pool. With a power consumption of only 36W, the HX205B provides powerful yet efficient illumination for swimming pools as well as water displays up to a 8-metre spray height. Its robust construction allows it to be installed in walls and on floors. All Ideal LED lights can be programmed to dim, synchronize to create infinite combinations of kaleidoscopic displays.

## DIMENSIONS



## SPECIFICATIONS

- ◆ Front cover & Housing: hard chrome plated molding shaped stainless steel SUS 316L
- ◆ Light Window: step tempered glass. T=10mm
- ◆ Gasket: silicone gasket
- ◆ Optional lens angle: 20°, 30°, 45°
- ◆ PCB: excellent heat conductivity aluminum, coefficient of heat conductivity ≥ 2.0w/mk
- ◆ LED colour temperature: 2,000K•3,000K•6,000K
- ◆ LED Driver: Constant Voltage Input, Constant Current Output
- ◆ Application environment: temperature of water between -20°C ~ 40°C less than 1 meter depth
- ◆ Built-in overheat sensor system: automatic shutdown at 75°C
- ◆ Recessed sleeve: PC/ABS ALLOYS
- ◆ Cable gland: IP-68 PG-11 copper with nickel-coated
- ◆ Power cable: 3m STW 18AWG

**Illuminance at a distance**

Distance (m)	Center Beam (LUX)	Angle	Beam Width	
			(V)	(H)
2m	2587.22 LUX		0.8m	0.8m
4m	646.80 LUX		1.7m	1.6m
6m	287.47 LUX		2.5m	2.4m
8m	161.70 LUX		3.3m	3.2m
10m	103.49 LUX		4.2m	4.0m
12m	71.87 LUX		5.0m	4.8m

## SLEEVE (Included)



## PERFORMANCE

Type	Light source	The manufacturer selected lens degree(θ1/2)	Input voltage (V)	Typical operating current (mA)	Typical consumption (W)	Typical luminance (lm)	IK rate
HX205B-S36	12x3W	20°	24V DC	1520	36.5	2522	08





# Wall Recessed LED Pool Light



HX205B-24T  
Symmetrical



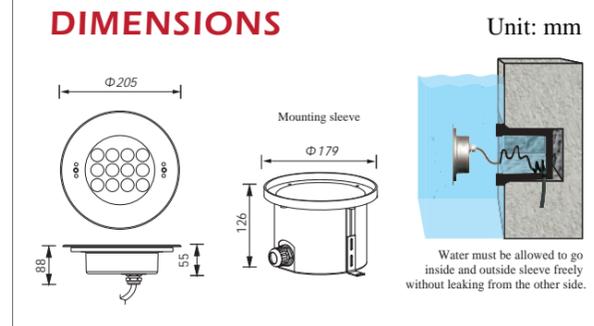
**Warning:**  
Must be installed underwater to prevent being damaged from over heating.



## DESCRIPTION

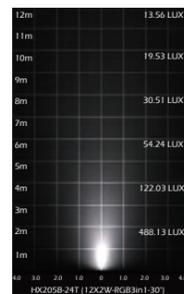
The simple yet elegant design of the recessed LED underwater light series adds a touch of refinement to any pool. With a power consumption of only 24W, the HX205B provides powerful yet efficient illumination for swimming pools as well as water displays up to a 8-metre spray height. Its robust construction allows it to be installed in walls and on floors. All Ideal LED lights can be programmed to dim, colour- change and synchronize to create infinite combinations of kaleidoscopic displays.

## DIMENSIONS



## SPECIFICATIONS

- ◆ Front cover & Housing: hard chrome plated molding shaped stainless steel SUS 316L
- ◆ Light Window: step tempered glass. T=10mm
- ◆ Gasket: silicone gasket
- ◆ PCB: excellent heat conductivity aluminum, coefficient of heat conductivity  $\geq 2.0 \text{w/mk}$
- ◆ Application environment: temperature of water between  $-20^{\circ}\text{C} \sim 40^{\circ}\text{C}$  less than 1 meter depth
- ◆ Mounting sleeve: PC/ABS ALLOYS
- ◆ Cable gland: IP-68 PG-11 copper with nickel-coated
- ◆ Power cable: 3m STW 18AWG



## Illuminance at a distance

Distance (m)	Center Beam (LUX)	Angle	Beam Width	
			(V)	(H)
2m	488.13 LUX		1.0m	1.0m
4m	122.03 LUX		2.0m	2.0m
6m	54.24 LUX		3.1m	3.0m
8m	30.51 LUX		4.1m	4.0m
10m	19.53 LUX		5.1m	5.0m
12m	13.56 LUX		6.1m	6.0m

## PERFORMANCE

Type	Light source	The manufacturer selected lens degree(θ1/2)	Input voltage (v)	Typical operating current (mA)	Typical consumption (w)	Typical luminance (lm)	IK rate
HX205B-24T	12x2W RGB 3in1 Full color	30°	24V DC	R=400 G=500 B=500	33.6	805	08

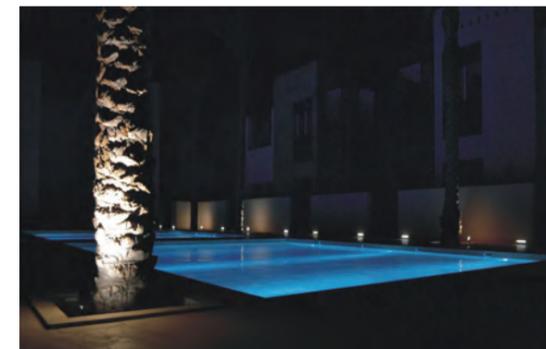
# Wall Recessed LED Pool Light



HX205B-S36E  
Asymmetrical



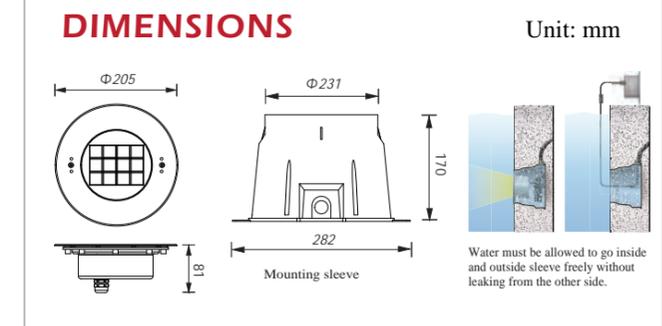
**Warning:**  
Must be installed underwater to prevent being damaged from over heating.



## DESCRIPTION

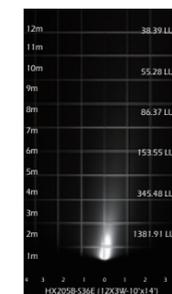
The simple yet elegant design of the recessed LED underwater light series adds a touch of refinement to any pool. With a power consumption of only 36W, the HX205B provides powerful yet efficient illumination for swimming pools as well as water displays up to a 8-metre spray height. Its robust construction allows it to be installed in walls and on floors. All Ideal LED lights can be programmed to dim, synchronize to create infinite combinations of kaleidoscopic displays.

## DIMENSIONS



## SPECIFICATIONS

- ◆ Front cover & Housing: hard chrome plated molding shaped stainless steel SUS 316L
- ◆ Light Window: step tempered glass. T=8mm
- ◆ Gasket: silicone gasket
- ◆ Optional lens angle:  $10^{\circ} \times 14^{\circ}$ ,  $21^{\circ} \times 29^{\circ}$
- ◆ PCB: excellent heat conductivity aluminum, coefficient of heat conductivity  $\geq 2.0 \text{w/mk}$
- ◆ LED colour temperature: 2,000K\*3,000K\*6,000K
- ◆ LED Driver: Constant Voltage Input, Constant Current Output
- ◆ Application environment: temperature of water between  $-20^{\circ}\text{C} \sim 40^{\circ}\text{C}$  less than 1 meter depth
- ◆ Built-in overheat sensor system: automatic shutdown at  $75^{\circ}\text{C}$
- ◆ Mounting sleeve: PC/ABS ALLOYS
- ◆ Cable gland: IP-68 PG-11 copper with nickel-coated
- ◆ Power cable: 3m STW 18AWG



## Illuminance at a distance

Distance (m)	Center Beam (LUX)	Angle	Beam Width	
			(V)	(H)
2m	1381.91 LUX		0.8m	0.9m
4m	345.48 LUX		1.5m	1.9m
6m	153.55 LUX		2.3m	2.8m
8m	86.37 LUX		3.1m	3.8m
10m	55.28 LUX		3.9m	4.7m
12m	38.39 LUX		4.6m	5.6m

## SLEEVE (Included)



**A Water stopper (Included)**  
The luminaire will generate high temperature when used, which will generate negative pressure when the power is turned off also brings water vapor into the luminaire. That's why the device is needed to prevent the water vapor go in.

**B IP68 Jiffy quick plug/socket connector (Option)**  
To prevent water vapor into luminaire via wire which had been cut, the air contains lots of steams when raining, spray or in humid environment, the luminaire will generate high temperature when used, which will generate negative pressure when the power is turned off also brings water vapor into the luminaire.

## PERFORMANCE

Type	Light source	The manufacturer selected lens degree(θ1/2)	Input voltage (v)	Typical operating current (mA)	Typical consumption (w)	Typical luminance (lm)	IK rate
HX205B-S36E	12x3W	$21^{\circ} \times 29^{\circ}$	24V DC	1520	36.5	2369	08



# Wall Recessed LED Pool Light



HX250B-S60  
Symmetrical

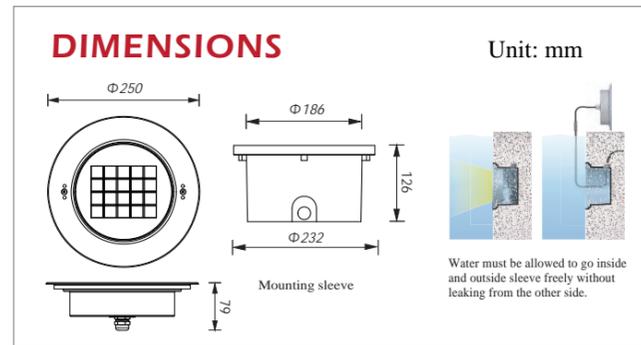


**Warning:**  
Must be installed underwater to prevent being damaged from over heating.

## DESCRIPTION

The simple yet elegant design of the recessed LED underwater light series adds a touch of refinement to any pool. With a power consumption of only 60W, the HX250B provides powerful yet efficient illumination for swimming pools as well as water displays up to a 8-metre spray height. Its robust construction allows it to be installed in walls and on floors.

All Ideal LED lights can be programmed to dim, synchronize to create infinite combinations of kaleidoscopic displays.



## SPECIFICATIONS

- ◆ Front cover & Housing: hard chrome plated molding shaped stainless steel SUS 316L
- ◆ Light Window: step tempered glass. T=10mm
- ◆ Gasket: silicone gasket
- ◆ Optional lens angle: 20°, 30°, 45°
- ◆ PCB: excellent heat conductivity aluminum, coefficient of heat conductivity  $\geq 2.0w/mk$
- ◆ LED colour temperature: 2,000K•3,000K•6,000K
- ◆ LED Driver: Constant Voltage Input, Constant Current Output
- ◆ Application environment: temperature of water between -20°C ~40°C less than 1 meter depth
- ◆ Built-in overheat sensor system: automatic shutdown at 75°C
- ◆ Mounting sleeve: PC/ABS ALLOYS
- ◆ Cable gland: IP-68 PG-11 copper with nickel-coated
- ◆ Power cable: 3m STW 18AWG

**Illuminance at a distance**

Distance (m)	Center Beam (LUX)	Angle	Beam Width	
			(V)	(H)
2m	6019.57 LUX		0.8m	0.8m
4m	1504.89 LUX		1.6m	1.6m
6m	668.84 LUX		2.5m	2.4m
8m	376.22 LUX		3.3m	3.2m
10m	240.78 LUX		4.1m	4.0m
12m	167.21 LUX		4.9m	4.8m



## PERFORMANCE

Type	Light source	The manufacturer selected lens degree(θ1/2)	Input voltage (V)	Typical operating current (mA)	Typical consumption (W)	Typical luminance (lm)	IK rate
HX250B-S36	20x3W	20°	24V DC	3050	73.2	5561	10

# Wall Recessed LED Pool Light



HX250B-36T  
Symmetrical

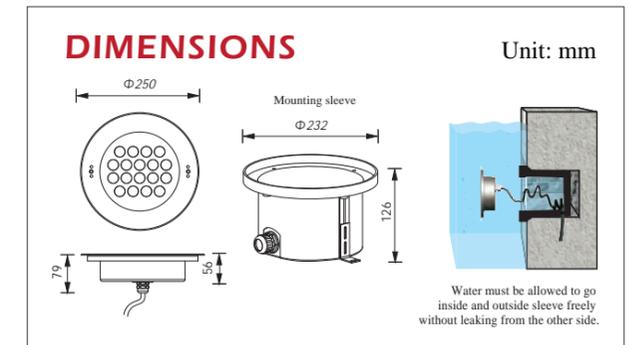


**Warning:**  
Must be installed underwater to prevent being damaged from over heating.

## DESCRIPTION

The simple yet elegant design of the recessed LED underwater Light series adds a touch of refinement to any pool. With a power consumption of only 36W, the HX250B provides powerful yet efficient illumination for swimming pools as well as water displays up to a 10-metre spray height. Its robust construction allows it to be installed in walls and on floors.

All Ideal LED lights can be programmed to dim, colour- change and synchronize to create infinite combinations of kaleidoscopic displays.



## SPECIFICATIONS

- ◆ Front cover & Housing: hard chrome plated molding shaped stainless steel SUS 316L
- ◆ Light Window: step tempered glass. T=10mm
- ◆ Gasket: silicone gasket
- ◆ PCB: excellent heat conductivity aluminum, coefficient of heat conductivity  $\geq 2.0w/mk$
- ◆ Application environment: temperature of water between -20°C ~40°C, less than 1 meter depth
- ◆ Mounting sleeve: PC/ABS ALLOYS
- ◆ Cable gland: IP-68 PG-11 copper with nickel-coated
- ◆ Power cable: 3m STW 18AWG

**Illuminance at a distance**

Distance (m)	Center Beam (LUX)	Angle	Beam Width	
			(V)	(H)
2m	609.37 LUX		1.0m	1.0m
4m	152.34 LUX		2.1m	1.9m
6m	67.71 LUX		3.1m	2.9m
8m	38.09 LUX		4.1m	3.8m
10m	24.37 LUX		5.1m	4.8m
12m	16.93 LUX		6.2m	5.8m

## PERFORMANCE

Type	Light source	The manufacturer selected lens degree(θ1/2)	Input voltage (V)	Typical operating current (mA)	Typical consumption (W)	Typical luminance (lm)	IK rate
HX250B-36T	18x2W RGB 3in1 Full color	30°	24V DC	R=630 G=770 B=770	52.0	1330	10



# Wall Recessed LED Pool Light



HX250B-S60E  
Asymmetrical



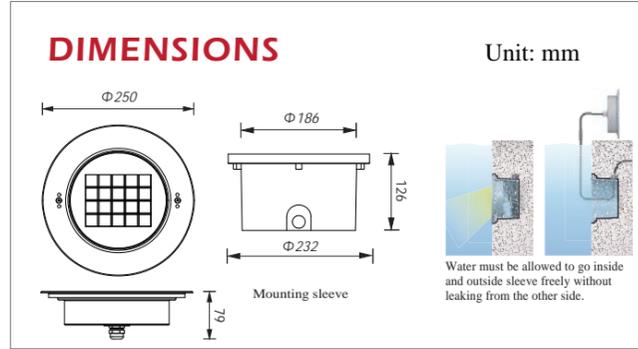
**Warning:**  
Must be installed underwater to prevent being damaged from over heating.



## DESCRIPTION

The simple yet elegant design of the recessed LED underwater light series adds a touch of refinement to any pool. With a power consumption of only 60W, the HX250B provides powerful yet efficient illumination for swimming pools as well as water displays up to a 8-metre spray height. Its robust construction allows it to be installed in walls and on floors.

All Ideal LED lights can be programmed to dim, synchronize to create infinite combinations of kaleidoscopic displays.



## SPECIFICATIONS

- ◆ Front cover & Housing: hard chrome plated molding shaped stainless steel SUS 316L
- ◆ Light Window: step tempered glass, T=10mm
- ◆ Gasket: silicone gasket
- ◆ Optional lens angle: 10°×14°, 21°×29°
- ◆ PCB: excellent heat conductivity aluminum, coefficient of heat conductivity ≥ 2.0w/mk
- ◆ LED colour temperature: 2,000K•3,000K•6,000K
- ◆ LED Driver: Constant Voltage Input, Constant Current Output
- ◆ Application environment: temperature of water between -20°C ~40°C less than 1 meter depth
- ◆ Built-in overheat sensor system: automatic shutdown at 75°C
- ◆ Mounting sleeve: PC/ABS ALLOYS
- ◆ Cable gland: IP-68 PG-11 copper with nickel-coated
- ◆ Power cable: 3m STW 18AWG

**ILLUMINANCE AT A DISTANCE**

Distance (m)	Center Beam (LUX)	Angle	Beam Width	
			(V)	(H)
2m	3328.76 LUX		0.7m	0.9m
4m	832.19 LUX		1.5m	1.9m
6m	369.86 LUX		2.2m	2.8m
8m	208.05 LUX		2.9m	3.7m
10m	133.15 LUX		3.7m	4.6m
12m	92.47 LUX		4.4m	5.6m



## PERFORMANCE

Type	Light source	The manufacturer selected lens degree(θ1/2)	Input voltage (V)	Typical operating current (mA)	Typical consumption (W)	Typical luminance (lm)	IK rate
HX250B-S60E	20x3W	21°×29°	24V DC	3050	73.2	5166	10

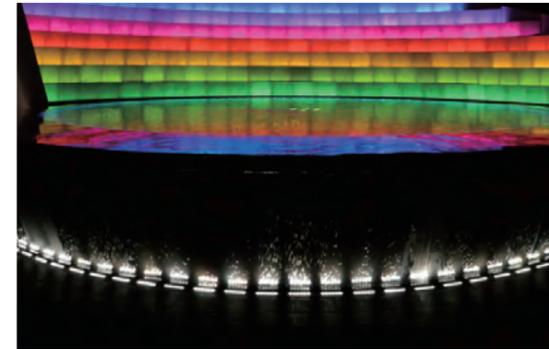
# Wall Recessed LED Pool Light



HX355BL-S18  
Symmetrical



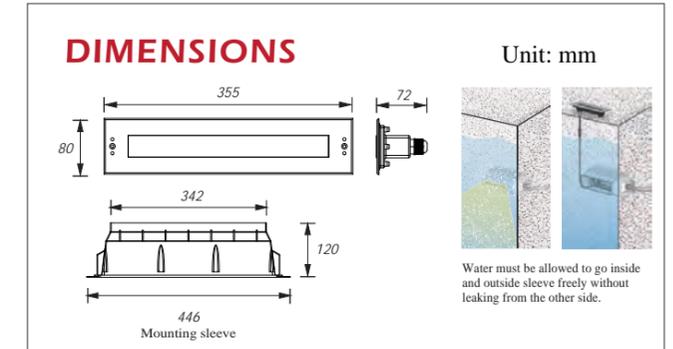
**Warning:**  
Must be installed underwater to prevent being damaged from over heating.



## DESCRIPTION

The linear design of the recessed LED underwater light series opens up new possibilities when lighting your pool. The HX355BL is the answer when you need even and discreet illumination. Completely unobtrusive when recessed into the walls. It is ideal when used to provide added illumination where it is need most such as at the pool's stairs or along infinity edges.

All Ideal LED lights can be programmed to dim, synchronize to create infinite combinations of kaleidoscopic displays.



## SPECIFICATIONS

- ◆ Front cover & Housing: hard chrome plated molding shaped stainless steel SUS 316L
- ◆ Light Window: PC
- ◆ Gasket: silicone gasket
- ◆ Optional lens angle: 8°, 13°, 25°, 30°
- ◆ PCB: excellent heat conductivity aluminum, coefficient of heat conductivity ≥ 2.0w/mk
- ◆ LED colour temperature: 2,000K•3,000K•6,000K
- ◆ LED Driver: Constant Voltage Input, Constant Current Output
- ◆ Application environment: temperature of water between -20°C ~40°C less than 1 meter depth
- ◆ Mounting sleeve: PC/ABS ALLOYS
- ◆ Cable gland: IP-68 PG-9 copper with nickel-coated
- ◆ Power cable: 3m STW 18AWG

**ILLUMINANCE AT A DISTANCE**

Distance (m)	Center Beam (LUX)	Angle	Beam Width	
			(V)	(H)
2m	1059.22 LUX		1.0m	1.0m
4m	264.81 LUX		2.0m	2.0m
6m	117.69 LUX		2.9m	3.0m
8m	66.20 LUX		3.0m	4.0m
10m	42.37 LUX		4.9m	4.9m
12m	29.42 LUX		5.9m	5.9m



## PERFORMANCE

Type	Light source	The manufacturer selected lens degree(θ1/2)	Input voltage (V)	Typical operating current (mA)	Typical consumption (W)	Typical luminance (lm)	IK rate
HX355BL-S18	6x3W	30°	24V DC	950	22.8	Cool White=1578 Warm White=1324	10



# Wall Recessed LED Pool Light



HX355BL-S18E  
Asymmetrical



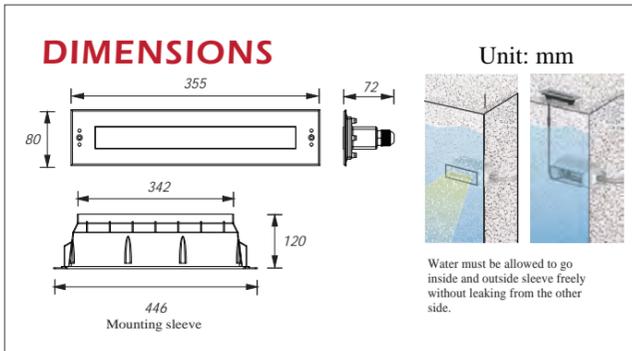
**Warning:**  
Must be installed underwater to prevent being damaged from over heating.



## DESCRIPTION

The linear design of the recessed LED underwater light series opens up new possibilities when lighting your pool. The HX355BL is the answer when you need even and discreet illumination. Completely unobtrusive when recessed into the walls. It is ideal when used to provide added illumination where it is need most such as at the pool's stairs or along infinity edges.

All Ideal LED lights can be programmed to dim, synchronize to create infinite combinations of kaleidoscopic displays.



## SPECIFICATIONS

- ◆ Front cover & Housing: hard chrome plated molding shaped stainless steel SUS 316L
- ◆ Light Window: PC
- ◆ Gasket: silicone gasket
- ◆ Optional lens angle: 45/35°
- ◆ PCB: excellent heat conductivity aluminum, coefficient of heat conductivity  $\geq 2.0$  w/mk
- ◆ LED colour temperature: 2,000K•3,000K•6,000K
- ◆ LED Driver: Constant Voltage Input, Constant Current Output
- ◆ Application environment: Temperature of water between -20°C ~40°C less than 1 meter depth
- ◆ Mounting sleeve: PC/ABS ALLOYS
- ◆ Cable gland: IP-68 PG-9 copper with nickel-coated
- ◆ Power cable: 3m STW 18AWG

**Illuminance at a distance**

Distance (m)	Center Beam (LUX)	Angle	Beam Width	
			(V)	(H)
2m	430.35 LUX		0.9m	1.0m
4m	107.59 LUX		1.7m	1.9m
6m	47.82 LUX		2.6m	2.9m
8m	26.90 LUX		3.4m	3.9m
10m	17.21 LUX		4.3m	4.8m
12m	11.95 LUX		5.1m	5.8m



## PERFORMANCE

Type	Light source	The manufacturer selected lens degree(Ø1/2)	Input voltage (v)	Typical operating current (mA)	Typical consumption (w)	Typical luminance (lm)	IK rate
HX355BL-S18E	6x3 W	45°/35°	24V DC	950	22.8	Cool white= 1280 Warm white=1102	09

# Fountain LED Ring Light



HX149R-18



**Warning:**  
Must be installed underwater to prevent being damaged from over heating.

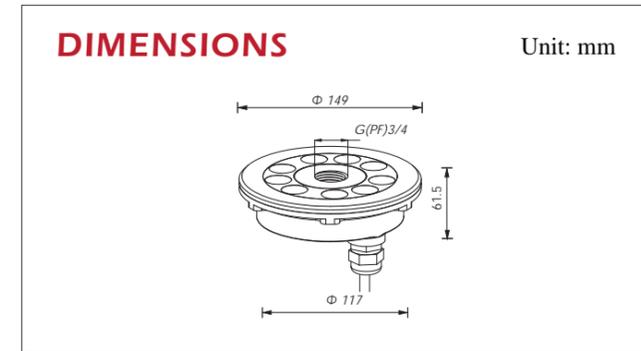


## DESCRIPTION

The underwater ring light series is the ultimate lighting solution for all animated fountains.

The ring lights HX149R sports a G 3/4" threaded connection at its centre where a nozzle can be directly attached. With a 8mm thick tempered glass cover and a IK rating of 9, the underwater ring light is extremely rugged.

All Ideal LED lights can be programmed to dim, synchronize to create infinite combinations of kaleidoscopic displays.



## SPECIFICATIONS

- ◆ Housing: hard chrome plated molding shaped stainless steel SUS 316
- ◆ Front cover: hard chrome plated stainless steel SUS 316L
- ◆ Light Window: step tempered glass. T=8mm
- ◆ Gasket: silicone gasket
- ◆ PCB: Excellent heat conductivity aluminum, coefficient of heat conductivity  $\geq 2.0$  w/mk
- ◆ Application environment: Temperature of water between -20°C ~40°C less than 1 meter depth
- ◆ Cable gland: IP-68 PG-11 copper with nickel-coated
- ◆ Power cable: 3m STW 18AWG

**Illuminance at a distance**

Distance (m)	Center Beam (LUX)	Angle	Beam Width	
			(V)	(H)
2m	890.78 LUX		0.8m	0.7m
4m	222.70 LUX		1.6m	1.5m
6m	98.98 LUX		2.4m	2.2m
8m	55.67 LUX		3.2m	3.0m
10m	35.63 LUX		4.0m	3.7m
12m	24.74 LUX		4.7m	4.4m

## PERFORMANCE

Type	Light source	The manufacturer selected lens degree(Ø1/2)	Input voltage (v)	Typical operating current (mA)	Typical consumption (w)	Typical luminance (lm)	IK rate
HX149R-18	9x2W	20°	24V DC	646	15.5	Cool white= 1317 Warm white=1054	09





# Fountain LED Ring Light



HX149R-18T



**Warning:**  
Must be installed in a place where contact water or under water to prevent being damaged from over heating.

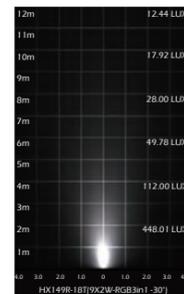
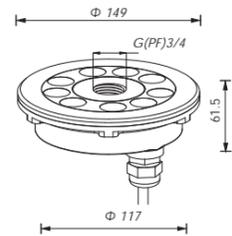


## DESCRIPTION

The underwater ring light series is the ultimate lighting solution for all animated fountains.  
The ring lights HX149R sports a G 3/4" threaded connection at its centre where a nozzle can be directly attached. With a 8mm thick tempered glass cover and a IK rating of 9, the underwater ring light is extremely rugged.  
All Ideal LED lights can be programmed to dim, colour- change and synchronize to create infinite combinations of kaleidoscopic displays.

## DIMENSIONS

Unit: mm



### Illuminance at a distance

Distance (m)	Center Beam (LUX)	Angle	Beam Width	
			(V)	(H)
2m	448.01 LUX		1.0m	0.9m
4m	112.00 LUX		1.9m	1.9m
6m	49.78 LUX		2.9m	2.8m
8m	28.00 LUX		3.9m	3.8m
10m	17.92 LUX		4.9m	4.7m
12m	12.44 LUX		5.8m	5.7m

## PERFORMANCE

Type	Light source	The manufacturer selected lens degree(θ1/2)	Input voltage (v)	Typical operating current (mA)	Typical consumption (w)	Typical luminance (lm)	IK rate
HX149R-18T	9x2W RGB 3in1 Full color	30°	24V DC	R=300 G=375 B=375	25.2	580	09

# Fountain LED Ring Light



HX149R-12QD



**Warning:**  
Must be installed in a place where contact water or under water to prevent being damaged from over heating.

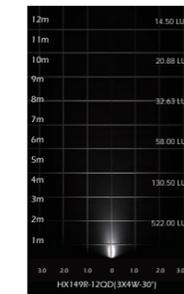
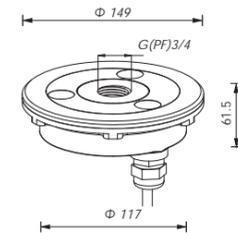


## DESCRIPTION

The underwater ring light series is the ultimate lighting solution for all animated fountains.  
The ring lights HX149R sports a G 3/4" threaded connection at its centre where a nozzle can be directly attached. With a 8mm thick tempered glass cover and a IK rating of 9, the underwater ring light is extremely rugged.  
RDM function: DMX address to be read and written. Provide operating voltage, current and temperature of light. Provide basic data such as supplier information.

## DIMENSIONS

Unit: mm



### Illuminance at a distance

Distance (m)	Center Beam (LUX)	Angle	Beam Width	
			(V)	(H)
2m	522.00 LUX		1.0m	1.0m
4m	130.50 LUX		2.0m	2.0m
6m	58.00 LUX		3.0m	3.0m
8m	32.63 LUX		4.0m	4.0m
10m	20.88 LUX		5.0m	5.0m
12m	14.50 LUX		6.0m	6.1m

## SPECIFICATIONS

- ◆ Housing: hard chrome plated molding shaped stainless steel SUS 316
- ◆ Front cover: hard chrome plated stainless steel SUS 316L
- ◆ Light Window: step tempered glass. T=8mm
- ◆ Gasket: silicone gasket
- ◆ PCB: Excellent heat conductivity aluminum, coefficient of heat conductivity ≥ 2.0w/mk
- ◆ Application environment: Temperature of water between -20 C ~ 40 C less than 1 meter depth
- ◆ Cable gland: IP-68 PG-13.5 copper with nickel-coated
- ◆ Power cable: 3m STW 18AWG
- ◆ Signal type: DMX512/RDM signal

## PERFORMANCE

Type	Light source	The manufacturer selected lens degree(θ1/2)	Input voltage (v)	Typical operating current (mA)	Typical consumption (w)	Typical luminance (lm)	IK rate
HX149R-12QD	3x4W RGBW 4in1 Full color	30°	24V DC	520	12.5	438	09





# Fountain LED Ring Light



HX170R-18

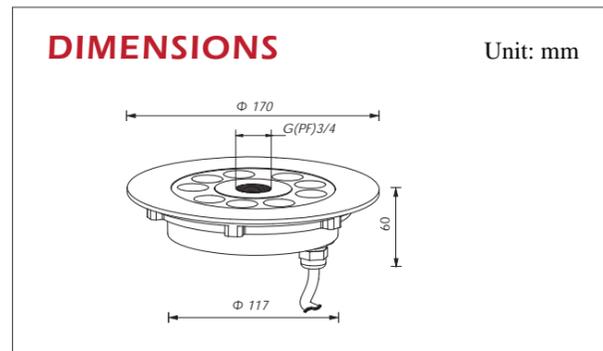


**Warning:**  
Must be installed in a place where contact water or under water to prevent being damaged from over heating.



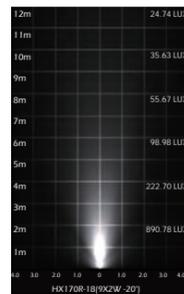
## DESCRIPTION

The underwater ring light series is the ultimate lighting solution for all animated fountains.  
The ring lights HX170R sports a G 3/4" threaded connection at its centre where a nozzle can be directly attached. With a 8mm thick tempered glass cover and a IK rating of 9, the underwater ring light is extremely rugged.  
All Ideal LED lights can be programmed to dim, synchronize to create infinite combinations of kaleidoscopic displays.



## SPECIFICATIONS

- ◆ Housing: hard chrome plated molding shaped stainless steel SUS 316
- ◆ Front cover: hard chrome plated stainless steel SUS 316L
- ◆ Light Window: step tempered glass. T=8mm
- ◆ Gasket: silicone gasket
- ◆ PCB: Excellent heat conductivity aluminum, coefficient of heat conductivity ≥ 2.0w/mk
- ◆ Application environment: Temperature of water between -20°C ~ 40°C less than 1 meter depth
- ◆ Cable gland: IP-68 PG-11 copper with nickel-coated
- ◆ Power cable: 3m STW 18AWG



## Illuminance at a distance

Distance (m)	Center Beam (LUX)	Angle	Beam Width	
			(V)	(H)
2m	890.78 LUX		0.8m	0.7m
4m	222.70 LUX		1.6m	1.5m
6m	98.98 LUX		2.4m	2.2m
8m	55.67 LUX		3.2m	3.0m
10m	35.63 LUX		4.0m	3.7m
12m	24.74 LUX		4.7m	4.4m

## PERFORMANCE

Type	Light source	The manufacturer selected lens degree(θ 1/2)	Input voltage (v)	Typical operating current (mA)	Typical consumption (w)	Typical luminance (lm)	IK rate
HX170R-18	9x2W	20°	24V DC	646	15.5	Cool white=1317 Warm white=1054	09

# Fountain LED Ring Light



HX170R-18T

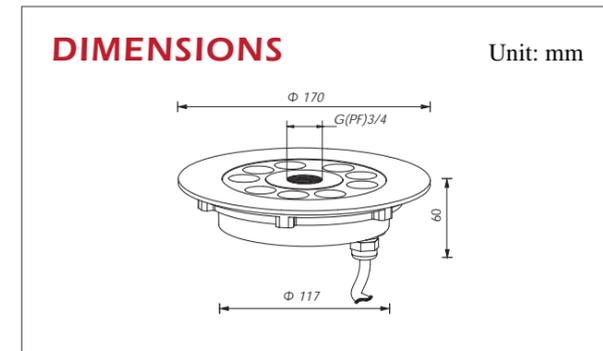


**Warning:**  
Must be installed in a place where contact water or under water to prevent being damaged from over heating.



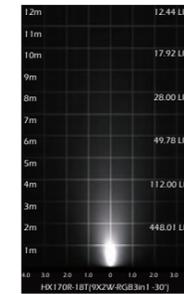
## DESCRIPTION

The underwater ring light series is the ultimate lighting solution for all animated fountains.  
The ring lights HX170R sports a G 3/4" threaded connection at its centre where a nozzle can be directly attached. With a 8mm thick tempered glass cover and a IK rating of 9, the underwater ring light is extremely rugged.  
All Ideal LED lights can be programmed to dim, colour- change and synchronize to create infinite combinations of kaleidoscopic displays.



## SPECIFICATIONS

- ◆ Housing: hard chrome plated molding shaped stainless steel SUS 316
- ◆ Front cover: hard chrome plated stainless steel SUS 316L
- ◆ Light Window: step tempered glass. T=8mm
- ◆ Gasket: silicone gasket
- ◆ PCB: excellent heat conductivity aluminum, coefficient of heat conductivity ≥ 2.0w/mk
- ◆ Application environment: temperature of water between -20°C ~ 40°C less than 1 meter depth
- ◆ Cable gland: IP-68 PG-11 copper with nickel-coated
- ◆ Power cable: 3m STW 18AWG



## Illuminance at a distance

Distance (m)	Center Beam (LUX)	Angle	Beam Width	
			(V)	(H)
2m	448.01 LUX		1.0m	0.9m
4m	112.00 LUX		1.9m	1.9m
6m	49.78 LUX		2.9m	2.8m
8m	28.00 LUX		3.9m	3.8m
10m	17.92 LUX		4.9m	4.7m
12m	12.44 LUX		5.8m	5.7m

## PERFORMANCE

Type	Light source	The manufacturer selected lens degree(θ 1/2)	Input voltage (v)	Typical operating current (mA)	Typical consumption (w)	Typical luminance (lm)	IK rate
HX170R-18T	9x2W RGB 3in1 Full color	30°	24V DC	R=300 G=375 B=375	25.2	580	09



# Fountain LED Ring Light



HX170R-12OD

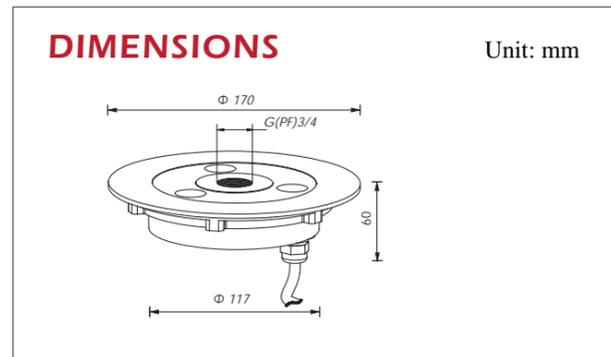
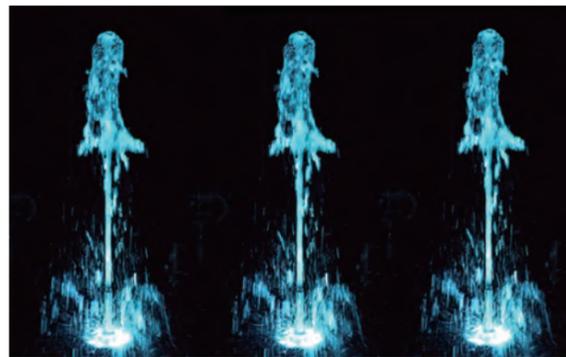


**Warning:**

Must be installed in a place where contact water or under water to prevent being damaged from over heating.

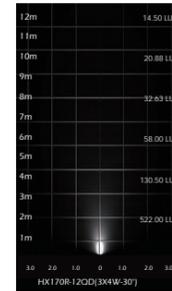
## DESCRIPTION

The underwater ring light series is the ultimate lighting solution for all animated fountains.  
 The ring lights HX170R sports a G 3/4" threaded connection at its centre where a nozzle can be directly attached. With a 8mm thick tempered glass cover and a IK rating of 9, the underwater ring light is extremely rugged.  
 RDM function: DMX address to be read and written. Provide operating voltage, current and temperature of light. Provide basic data such as supplier information.



## SPECIFICATIONS

- ◆ Housing: hard chrome plated molding shaped stainless steel SUS 316
- ◆ Front cover: hard chrome plated stainless steel SUS 316L
- ◆ Light Window: step tempered glass. T=8mm
- ◆ Gasket: silicone gasket
- ◆ PCB: Excellent heat conductivity aluminum, coefficient of heat conductivity  $\geq 2.0w/mk$
- ◆ Application environment: Temperature of water between  $-20^{\circ}C \sim 40^{\circ}C$  less than 1 meter depth
- ◆ Cable gland: IP-68 PG-13.5 copper with nickel-coated
- ◆ Power cable: 3m STW 18AWG
- ◆ Signal type: DMX512/RDM signal



### Illuminance at a distance

Distance (m)	Center Beam (LUX)	Angle	Beam Width	
			(V)	(H)
2m	522.00 LUX		1.0m	1.0m
4m	130.50 LUX		2.0m	2.0m
6m	58.00 LUX		3.0m	3.0m
8m	32.63 LUX		4.0m	4.0m
10m	20.88 LUX		5.0m	5.0m
12m	14.50 LUX		6.0m	6.1m

## PERFORMANCE

Type	Light source	The manufacturer selected lens degree(θ1/2)	Input voltage (v)	Typical operating current (mA)	Typical consumption (w)	Typical luminance (lm)	IK rate
HX170R-12OD	3x4W RGBW 4in1 Full color	30°	24V DC	520	12.5	438	09

# Fountain LED Ring Light



HX182R-24

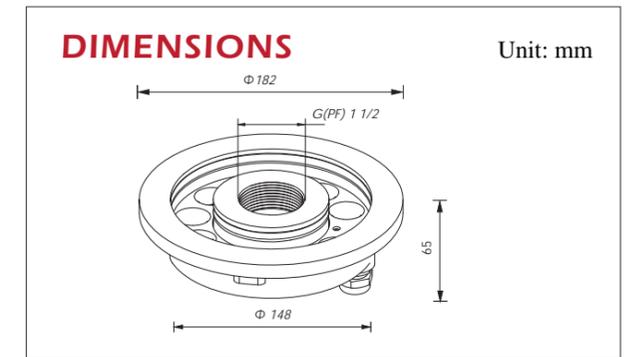


**Warning:**

Must be installed in a place where contact water or under water to prevent being damaged from over heating.

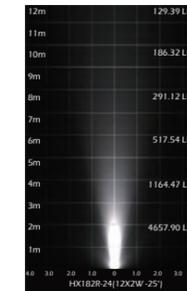
## DESCRIPTION

The underwater ring light series is the ultimate lighting solution for all animated fountains.  
 The ring lights HX182R sports a G1 1/2" threaded connection at its centre where a nozzle can be directly attached. With a 10mm thick tempered glass cover and a IK rating of 9, the underwater ring light is extremely rugged. All Ideal LED lights can be programmed to dim, synchronize to create infinite combinations of kaleidoscopic displays.



## SPECIFICATIONS

- ◆ Housing: hard chrome plated molding shaped stainless steel SUS 316
- ◆ Front cover: hard chrome plated stainless steel SUS 316L
- ◆ Light Window: step tempered glass. T=10mm
- ◆ Gasket: silicone gasket
- ◆ PCB: excellent heat conductivity aluminum, coefficient of heat conductivity  $\geq 2.0w/mk$
- ◆ Application environment: temperature of water between  $-20^{\circ}C \sim 40^{\circ}C$  less than 1 meter depth
- ◆ Cable gland: IP-68 PG-11 copper with nickel-coated
- ◆ Power cable: 3m STW 18AWG



### Illuminance at a distance

Distance (m)	Center Beam (LUX)	Angle	Beam Width	
			(V)	(H)
2m	4657.90 LUX		0.5m	0.5m
4m	1164.47 LUX		1.1m	1.0m
6m	517.54 LUX		1.6m	1.6m
8m	291.12 LUX		2.2m	2.1m
10m	186.32 LUX		2.7m	2.6m
12m	129.39 LUX		3.3m	3.1m

## PERFORMANCE

Type	Light source	The manufacturer selected lens degree(θ1/2)	Input voltage (v)	Typical operating current (mA)	Typical consumption (w)	Typical luminance (lm)	IK rate
HX182R-24	12x2W	25°	24V DC	1200	28.8	Cool white=2067 Warm white=1610	09



# Fountain LED Ring Light



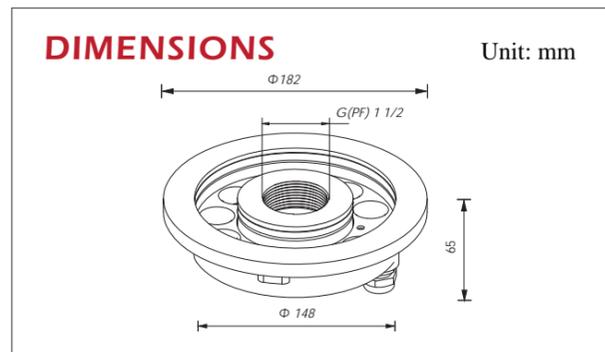
HX182R-36T



**Warning:**  
Must be installed in a place where contact water or under water to prevent being damaged from over heating.

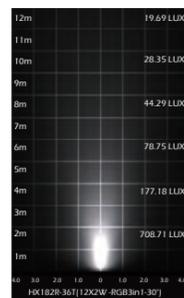
## DESCRIPTION

The underwater ring light series is the ultimate lighting solution for all animated fountains.  
The ring lights HX182R sports a G1 1/2" threaded connection at its centre where a nozzle can be directly attached. With a 10mm thick tempered glass cover and a IK rating of 9, the underwater ring light is extremely rugged. All Ideal LED lights can be programmed to dim, colour- change and synchronize to create infinite combinations of kaleidoscopic displays.



## SPECIFICATIONS

- ◆ Housing: hard chrome plated molding shaped stainless steel SUS 316
- ◆ Front cover: hard chrome plated stainless steel SUS 316L
- ◆ Light Window: step tempered glass. T=10mm
- ◆ Gasket: silicone gasket
- ◆ PCB: excellent heat conductivity aluminum, coefficient of heat conductivity  $\geq 2.0w/mk$
- ◆ Application environment: temperature of water between  $-20^{\circ}C \sim 40^{\circ}C$  less than 1 meter depth
- ◆ Cable gland: IP-68 PG-11 copper with nickel-coated
- ◆ Power cable: 3m STW 18AWG



### Illuminance at a distance

Distance (m)	Center Beam (LUX)	Angle	Beam Width	
			(V)	(H)
2m	708.71 LUX		0.9m	1.0m
4m	177.18 LUX		1.9m	1.9m
6m	78.75 LUX		2.8m	2.9m
8m	44.29 LUX		3.8m	3.8m
10m	28.35 LUX		4.7m	4.8m
12m	19.69 LUX		5.7m	5.7m

## PERFORMANCE

Type	Light source	The manufacturer selected lens degree( $\Theta$ 1/2)	Input voltage (v)	Typical operating current (mA)	Typical consumption (w)	Typical luminance (lm)	IK rate
HX182R-36T	12x2W RGB 3in1 Full color	30°	24V DC	R=400 G=500 B=500	33.6	924	09

# Fountain LED Ring Light



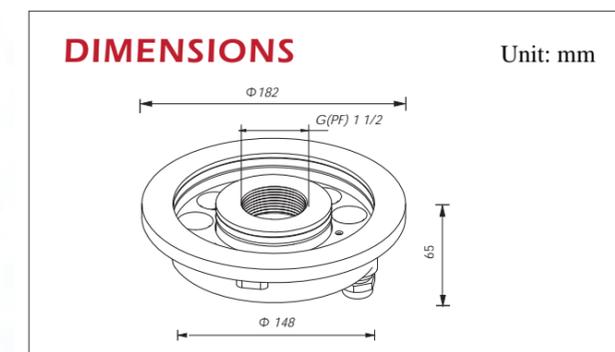
HX182R-24QD



**Warning:**  
Must be installed in a place where contact water or under water to prevent being damaged from over heating.

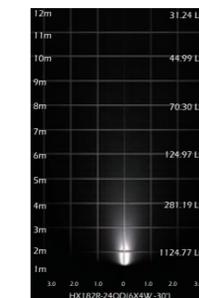
## DESCRIPTION

The underwater ring light series is the ultimate lighting solution for all animated fountains.  
The ring lights HX182R sports a G1 1/2" threaded connection at its centre where a nozzle can be directly attached. With a 10mm thick tempered glass cover and a IK rating of 9, the underwater ring light is extremely rugged. RDM function: DMX address to be read and written. Provide operating voltage, current and temperature of light. Provide basic data such as supplier information.



## SPECIFICATIONS

- ◆ Housing: hard chrome plated molding shaped stainless steel SUS 316
- ◆ Front cover: hard chrome plated stainless steel SUS 316L
- ◆ Light Window: step tempered glass. T=10mm
- ◆ Gasket: EPDM gasket
- ◆ PCB: excellent heat conductivity aluminum, coefficient of heat conductivity  $\geq 2.0w/mk$
- ◆ Application environment: temperature of water between  $-20^{\circ}C \sim 40^{\circ}C$  less than 1 meter depth
- ◆ Cable gland: IP-68 PG-13.5 copper with nickel-coated
- ◆ Power cable: 3m STW 18AWG
- ◆ Signal type: DMX512/RDM signal



### Illuminance at a distance

Distance (m)	Center Beam (LUX)	Angle	Beam Width	
			(V)	(H)
2m	1124.77 LUX		0.8m	0.8m
4m	281.19 LUX		1.6m	1.7m
6m	124.97 LUX		2.4m	2.5m
8m	70.30 LUX		3.3m	3.3m
10m	44.99 LUX		4.1m	4.1m
12m	31.24 LUX		4.9m	5.0m

## PERFORMANCE

Type	Light source	The manufacturer selected lens degree( $\Theta$ 1/2)	Input voltage (v)	Typical operating current (mA)	Typical consumption (w)	Typical luminance (lm)	IK rate
HX182R-24QD	6x4W RGBW 4in1 Full color	30°	24V DC	1083	26	1208	09



# Fountain LED Ring Light



HX200R-24



**Warning:**

Must be installed in a place where contact water or under water to prevent being damaged from over heating.

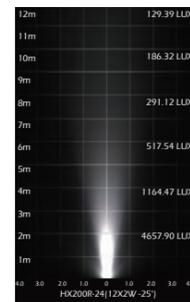
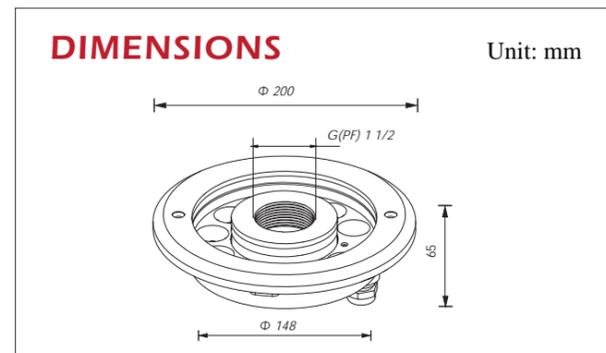


## DESCRIPTION

The underwater ring light series is the ultimate lighting solution for all animated fountains.

The ring lights HX200R sports a G1 1/2" threaded connection at its centre where a nozzle can be directly attached. With a 10mm thick tempered glass cover and a IK rating of 9, the underwater ring light is extremely rugged.

All Ideal LED lights can be programmed to dim, synchronize to create infinite combinations of kaleidoscopic displays.



### Illuminance at a distance

Distance (m)	Center Beam (LUX)	Angle	Beam Width	
			(V)	(H)
2m	4657.90 LUX		0.5m	0.5m
4m	1164.47 LUX		1.1m	1.0m
6m	517.54 LUX		1.6m	1.6m
8m	291.12 LUX		2.2m	2.1m
10m	186.32 LUX		2.7m	2.6m
12m	129.39 LUX		3.3m	3.1m

## PERFORMANCE

Type	Light source	The manufacturer selected lens degree(θ 1/2)	Input voltage (V)	Typical operating current (mA)	Typical consumption (W)	Typical luminance (lm)	IK rate
HX200R-24	12x2W	25°	24V DC	1200	28.8	Cool white=2067 Warm white=1610	09

# Fountain LED ring Light



HX200R-36T



**Warning:**

Must be installed in a place where contact water or under water to prevent being damaged from over heating.

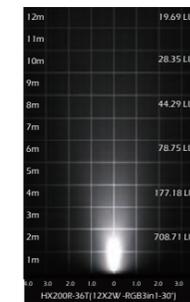
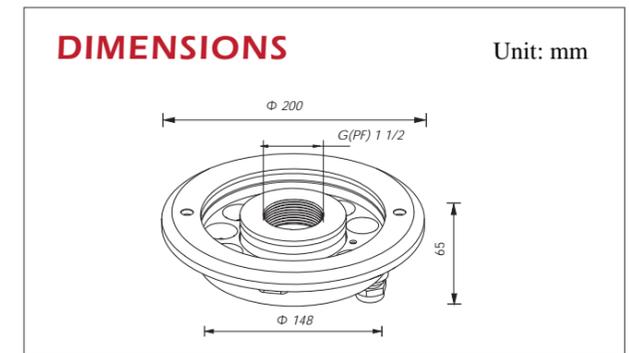


## DESCRIPTION

The underwater ring light series is the ultimate lighting solution for all animated fountains.

The ring lights HX200R sports a G1 1/2" threaded connection at its centre where a nozzle can be directly attached. With a 10mm thick tempered glass cover and a IK rating of 9, the underwater ring light is extremely rugged.

All Ideal LED lights can be programmed to dim, colour- change and synchronize to create infinite combinations of kaleidoscopic displays.



## SPECIFICATIONS

- ◆ Housing: hard chrome plated molding shaped stainless steel SUS 316
- ◆ Front cover: hard chrome plated stainless steel SUS 316L
- ◆ Light Window: step tempered glass. T=10mm
- ◆ Gasket: silicone gasket
- ◆ PCB: excellent heat conductivity aluminum, coefficient of heat conductivity ≥ 2.0w/mk
- ◆ Application environment: temperature of water between -20°C ~ 40°C less than 1 meter depth
- ◆ Cable gland: IP-68 PG-11 copper with nickel-coated
- ◆ Power cable: 3m STW 18AWG

### Illuminance at a distance

Distance (m)	Center Beam (LUX)	Angle	Beam Width	
			(V)	(H)
2m	708.71 LUX		0.9m	1.0m
4m	177.18 LUX		1.9m	1.9m
6m	78.75 LUX		2.8m	2.9m
8m	44.29 LUX		3.8m	3.8m
10m	28.35 LUX		4.7m	4.8m
12m	19.69 LUX		5.7m	5.7m

## PERFORMANCE

Type	Light source	The manufacturer selected lens degree(θ 1/2)	Input voltage (V)	Typical operating current (mA)	Typical consumption (W)	Typical luminance (lm)	IK rate
HX200R-36T	12x2W RGB 3in1 Full color	30°	24V DC	R=400 G=500 B=500	33.6	924	09



# Fountain LED ring Light



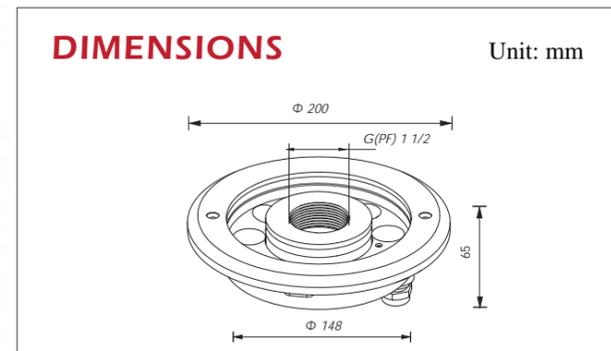
HX200R-24QD



**Warning:**  
Must be installed in a place where contact water or under water to prevent being damaged from over heating.

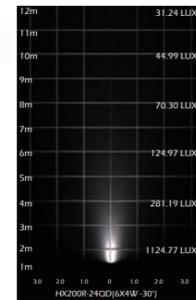
## DESCRIPTION

The underwater ring light series is the ultimate lighting solution for all animated fountains.  
The ring lights HX200R sports a G1 1/2" threaded connection at its centre where a nozzle can be directly attached. With a 10mm thick tempered glass cover and a IK rating of 9, the underwater ring light is extremely rugged.  
RDM function: DMX address to be read and written. Provide operating voltage, current and temperature of light. Provide basic data such as supplier information.



## SPECIFICATIONS

- ◆ Housing: hard chrome plated molding shaped stainless steel SUS 316
- ◆ Front cover: hard chrome plated stainless steel SUS 316L
- ◆ Light Window: step tempered glass. T=10mm
- ◆ Gasket: EPDM gasket
- ◆ PCB: excellent heat conductivity aluminum, coefficient of heat conductivity  $\geq 2.0 \text{ w/mk}$
- ◆ Application environment: temperature of water between  $-20^\circ\text{C} \sim 40^\circ\text{C}$  less than 1 meter depth
- ◆ Cable gland: IP-68 PG-13.5 copper with nickel-coated
- ◆ Power cable: 3m STW 18AWG
- ◆ Signal type: DMX512/RDM signal



## Illuminance at a distance

Distance (m)	Center Beam (LUX)	Angle	Beam Width	
			(V)	(H)
2m	1124.77 LUX		0.8m	0.8m
4m	281.19 LUX		1.6m	1.7m
6m	124.97 LUX		2.4m	2.5m
8m	70.30 LUX		3.3m	3.3m
10m	44.99 LUX		4.1m	4.1m
12m	31.24 LUX		4.9m	5.0m

## PERFORMANCE

Type	Light source	The manufacturer selected lens degree(θ1/2)	Input voltage (v)	Typical operating current (mA)	Typical consumption (w)	Typical luminance (lm)	IK rate
HX200R-24QD	6x4W RGBW 4in1 Full color	30°	24V DC	1083	26	1208	09

# Underwater LED Spot Light



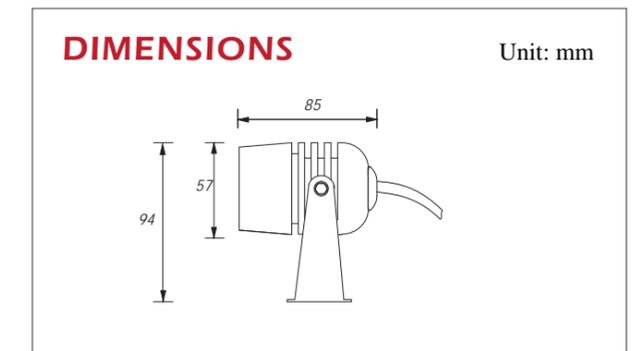
HX57T-6/HX57T-4QD



**Warning:**  
Must be installed in a place where contact water or under water to prevent being damaged from over heating.

## DESCRIPTION

The underwater spot light series is your solution to tight spaces. Whether installed free-standing or standing, the HX57T provides sufficient illumination for most residential and indoor water features.  
This compact fixture allows it to be easily hidden from sight or even integrated with the hardscape to achieve better ambience. All Ideal LED lights can be programmed to dim, colour- change and synchronize to create infinite combinations of kaleidoscopic displays.



## SPECIFICATIONS

- ◆ Front cover : hard chrome plated stainless steel SUS 316
- ◆ Light Window: high-strength ultra-white tempered glass
- ◆ Gasket: silicone gasket
- ◆ Application environment: temperature of water between  $-20^\circ\text{C} \sim 50^\circ\text{C}$
- ◆ Power cable: 0.5m RVV 2x1mm<sup>2</sup>/ 5x1mm<sup>2</sup>
- ◆ Signal type: DMX512 (HX57T-4QD)

## Illuminance at a distance (HX57T-6,3000K)

Distance (m)	Center Beam (lux)	Angle (15°)	Beam Width	
			(V)	(H)
2m	1334 lux		0.45m	0.45m
4m	336 lux		0.98m	0.98m
6m	148 lux		1.35m	1.35m
8m	83 lux		1.85m	1.85m

## Illuminance at a distance (HX57T-6,3000K)

Distance (m)	Center Beam (lux)	Angle (24°)	Beam Width	
			(V)	(H)
2m	777 lux		0.77m	0.77m
4m	194 lux		1.41m	1.41m
6m	86 lux		2.15m	2.15m
8m	49 lux		2.85m	2.85m

## PERFORMANCE

Type	Light source	Color	The manufacturer selected lens degree (θ1/2)	Input voltage (v)	Weight
HX57T-6	1x6W	3000K/6000K	15°/24°/36°/50°	24V DC	0.7 kg
HX57T-4QD	1x4W	RGBW	15°/24°/36°/50°	24V DC	0.7 kg





# Underwater LED Spot Light

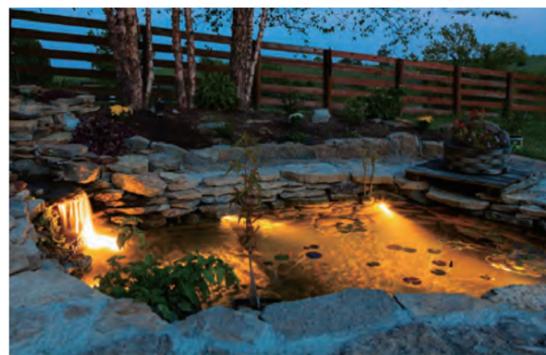


HX60TH-3



**Warning:**

Must be installed in a place where contact water or under water to prevent being damaged from over heating.

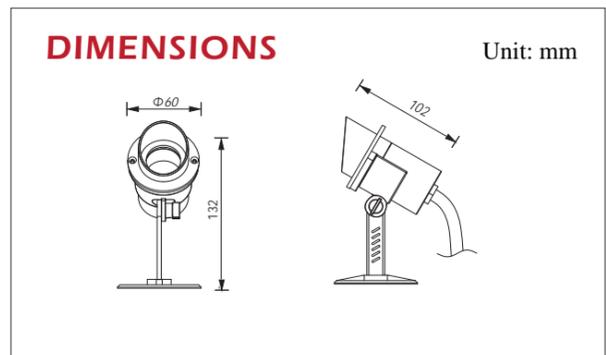


## DESCRIPTION

The underwater spot light series is your solution to tight spaces. Whether installed free-standing or standing, the HX60TH provides sufficient illumination for most residential and indoor water features.

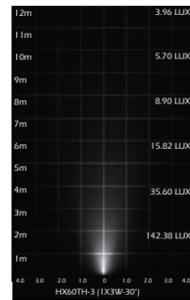
This compact fixture allows it to be easily hidden from sight or even integrated with the hardscape to achieve better ambience.

All Ideal LED lights can be programmed to dim, synchronize to create infinite combinations of kaleidoscopic displays.



## SPECIFICATIONS

- ◆ Front cover & Housing: hard chrome plated molding shaped stainless steel SUS 316
- ◆ Light Window: step tempered glass. T=7mm
- ◆ Gasket: EPDM gasket
- ◆ PCB: excellent heat conductivity aluminum, coefficient of heat conductivity  $\geq 2.0w/mk$
- ◆ Application environment: temperature of water between  $-20^{\circ}C \sim 40^{\circ}C$  less than 1 meter depth
- ◆ Cable gland: IP-68 M16a copper with nickel-coated
- ◆ Power cable: 3m STW 18AWG



### Illuminance at a distance

Distance (m)	Center Beam (LUX)	Angle	Beam Width	
			(V)	(H)
2m	142.38 LUX		1.0m	1.0m
4m	35.60 LUX		1.9m	1.9m
6m	15.82 LUX		2.9m	2.9m
8m	8.90 LUX		3.8m	3.8m
10m	5.70 LUX		4.8m	4.8m
12m	3.96 LUX		5.8m	5.7m

## PERFORMANCE

Type	Light source	The manufacturer selected lens degree( $\theta 1/2$ )	Input voltage (v)	Typical operating current (mA)	Typical consumption (w)	Typical luminance (lm)	IK rate
HX60TH-3	1x3W	30°	24V DC	110	2.6	Cool white= 174 Warm white= 139	06

# Underwater LED Spot Light



HX60TH-3T



**Warning:**

Must be installed in a place where contact water or under water to prevent being damaged from over heating.

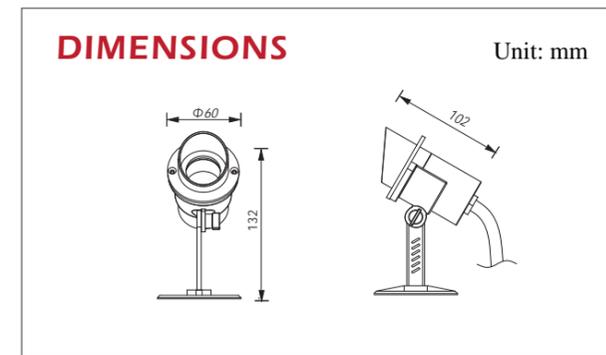


## DESCRIPTION

The underwater spot light series is your solution to tight spaces. Whether installed free-standing or standing, the HX60TH provides sufficient illumination for most residential and indoor water features.

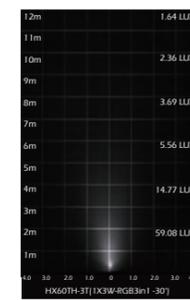
This compact fixture allows it to be easily hidden from sight or even integrated with the hardscape to achieve better ambience.

All Ideal LED lights can be programmed to dim, colour- change and synchronize to create infinite combinations of kaleidoscopic displays.



## SPECIFICATIONS

- ◆ Front cover & Housing: hard chrome plated molding shaped stainless steel SUS 316
- ◆ Light Window: step tempered glass. T=7mm
- ◆ Gasket: EPDM gasket
- ◆ PCB: excellent heat conductivity aluminum, coefficient of heat conductivity  $\geq 2.0w/mk$
- ◆ Application environment: temperature of water between  $-20^{\circ}C \sim 40^{\circ}C$  less than 1 meter depth
- ◆ Cable gland: IP-68 M16a copper with nickel-coated
- ◆ Power cable: 3m STW 18AWG



### Illuminance at a distance

Distance (m)	Center Beam (LUX)	Angle	Beam Width	
			(V)	(H)
2m	59.08 LUX		1.0m	1.0m
4m	14.77 LUX		2.1m	2.0m
6m	5.56 LUX		3.1m	3.0m
8m	3.69 LUX		4.2m	4.0m
10m	2.36 LUX		5.2m	5.0m
12m	1.64 LUX		6.2m	6.0m

## PERFORMANCE

Type	Light source	The manufacturer selected lens degree( $\theta 1/2$ )	Input voltage (v)	Typical operating current (mA)	Typical consumption (w)	Typical luminance (lm)	IK rate
HX60TH-3T	1x3W RGB 3in1 Full color	30°	24V DC	R= 48 G= 62 B= 62	4.1	103	06





# Underwater LED Spot Light



HX69T-3

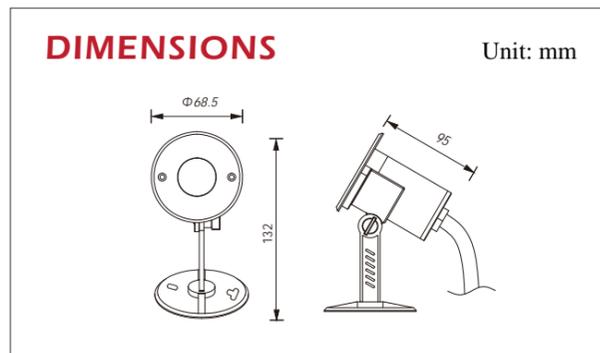


**Warning:**  
Must be installed in a place where contact water or under water to prevent being damaged from over heating.

## DESCRIPTION

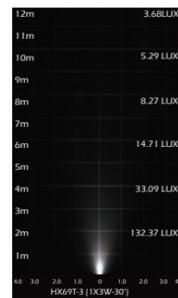
The underwater spot light series is your solution to tight spaces. Whether installed free-standing or standing, the HX69T provides sufficient illumination for most residential and indoor water features.

This compact fixture allows it to be easily hidden from sight or even integrated with the hardscape to achieve better ambience. All Ideal LED lights can be programmed to dim, colour- change and synchronize to create infinite combinations of kaleidoscopic displays.



## SPECIFICATIONS

- ◆ Front cover & Housing: hard chrome plated molding shaped stainless steel SUS 316
- ◆ Light Window: step tempered glass. T=7mm
- ◆ Gasket: EPDM gasket
- ◆ PCB: excellent heat conductivity aluminum, coefficient of heat conductivity  $\geq 2.0w/mk$
- ◆ Application environment: temperature of water between  $-20^{\circ}C \sim 40^{\circ}C$  less than 1 meter depth
- ◆ Cable gland: IP-68 M16a copper with nickel-coated
- ◆ Power cable: 3m STW 18AWG



### Illuminance at a distance

Distance (m)	Center Beam (LUX)	Angle	Beam Width	
			(V)	(H)
2m	132.37 LUX		1.1m	1.1m
4m	33.09 LUX		2.2m	2.1m
6m	14.71 LUX		3.3m	3.2m
8m	8.27 LUX		4.4m	4.3m
10m	5.29 LUX		5.5m	5.3m
12m	3.68 LUX		6.5m	6.4m

## PERFORMANCE

Type	Light source	The manufacturer selected lens degree( $\theta 1/2$ )	Input voltage (V)	Typical operating current (mA)	Typical consumption (w)	Typical luminance (lm)	IK rate
HX69T-3	1x3W	30°	24V DC	110	2.6	Cool white=174 Warm white=139	06

# Underwater LED Spot Light



HX69T-3T

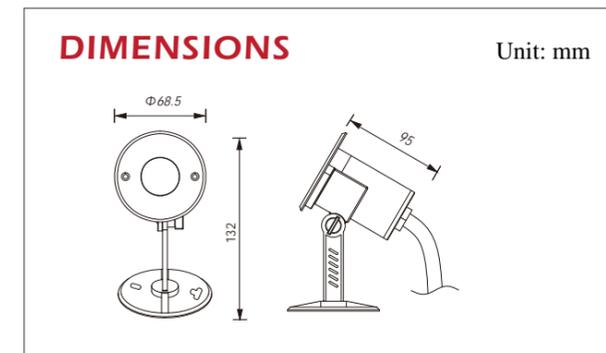


**Warning:**  
Must be installed in a place where contact water or under water to prevent being damaged from over heating.

## DESCRIPTION

The underwater spot light series is your solution to tight spaces. Whether installed free-standing or standing, the HX69T provides sufficient illumination for most residential and indoor water features.

This compact fixture allows it to be easily hidden from sight or even integrated with the hardscape to achieve better ambience. All Ideal LED lights can be programmed to dim, colour- change and synchronize to create infinite combinations of kaleidoscopic displays.



## SPECIFICATIONS

- ◆ Front cover & Housing: hard chrome plated molding shaped stainless steel SUS 316
- ◆ Light Window: step tempered glass. T=7mm
- ◆ Gasket: EPDM gasket
- ◆ PCB: excellent heat conductivity aluminum, coefficient of heat conductivity  $\geq 2.0w/mk$
- ◆ Application environment: temperature of water between  $-20^{\circ}C \sim 40^{\circ}C$  less than 1 meter depth
- ◆ Cable gland: IP-68 M16a copper with nickel-coated
- ◆ Power cable: 3m STW 18AWG



### Illuminance at a distance

Distance (m)	Center Beam (LUX)	Angle	Beam Width	
			(V)	(H)
2m	82.44LUX		0.9m	0.9m
4m	20.61 LUX		1.8m	1.8m
6m	9.16 LUX		2.8m	2.7m
8m	5.15 LUX		3.7m	3.6m
10m	3.30 LUX		4.6m	4.6m
12m	2.29 LUX		5.5m	5.5m

## PERFORMANCE

Type	Light source	The manufacturer selected lens degree( $\theta 1/2$ )	Input voltage (V)	Typical operating current (mA)	Typical consumption (w)	Typical luminance (lm)	IK rate
HX69T-3T	1x3W RGB 3in1 Full color	30°	24V DC	R=48 G=62 B=62	4.1	103	06





# Underwater LED Spot Light



HX62T-4



**Warning:**  
Must be installed in a place where contact water or under water to prevent being damaged from over heating.



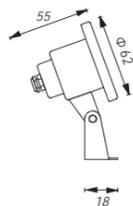
## DESCRIPTION

The underwater spot light series is your solution to tight spaces. Whether installed free-standing or standing, the HX62T provides sufficient illumination for most residential and indoor water features.

This compact fixture allows it to be easily hidden from sight or even integrated with the hardscape to achieve better ambience. All Ideal LED lights can be programmed to dim, synchronize to create infinite combinations of kaleidoscopic displays.

## DIMENSIONS

Unit: mm



## SPECIFICATIONS

- ◆ Front cover & Housing: hard chrome plated molding shaped stainless steel SUS 316
- ◆ Light Window: high-strength ultra-white tempered glass
- ◆ Application environment: temperature of water between -20°C ~50°C
- ◆ Power cable: 0.5m RVV 2x1mm<sup>2</sup>

## Illuminance at a distance (HX62T-4,3000K)

Distance (m)	Center Beam (lux)	Angle (15°)	Beam Width	
			(V)	(H)
2m	605 lux		0.43m	0.43m
4m	151 lux		0.86m	0.86m
6m	67 lux		1.30m	1.30m
8m	38 lux		1.73m	1.73m

## Illuminance at a distance (HX62T-4,3000K)

Distance (m)	Center Beam (lux)	Angle (25°)	Beam Width	
			(V)	(H)
2m	265 lux		0.75m	0.75m
4m	66 lux		1.50m	1.50m
6m	29 lux		2.26m	2.26m
8m	16 lux		3.01m	3.01m

## PERFORMANCE

Type	Light source	Color	The manufacturer selected lens degree (θ1/2)	Input voltage (V)	Weight
HX62T-4	1x4W	3000K/6000K	15°/25°/40°	24V DC	0.25 kg

# Underwater LED Spot Light



HX86T-4/HX86T-4QD



**Warning:**  
Must be installed in a place where contact water or under water to prevent being damaged from over heating.



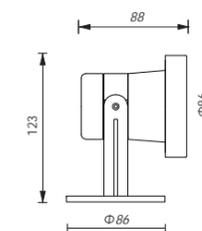
## DESCRIPTION

The underwater spot light series is your solution to tight spaces. Whether installed free-standing or standing, the HX86T provides sufficient illumination for most residential and indoor water features.

This compact fixture allows it to be easily hidden from sight or even integrated with the hardscape to achieve better ambience. All Ideal LED lights can be programmed to dim, colour- change and synchronize to create infinite combinations of kaleidoscopic displays.

## DIMENSIONS

Unit: mm



## SPECIFICATIONS

- ◆ Front cover : hard chrome plated molding shaped stainless steel SUS 316
- ◆ Light Window:high-strength ultra-white tempered glass
- ◆ Gasket: silicone gasket
- ◆ Application environment: temperature of water between -20°C ~50°C
- ◆ Power cable: 0.5m RVV 2x1mm<sup>2</sup>/ 5x1mm<sup>2</sup>
- ◆ Signal type: DMX512 (HX86T-4QD)

## Illuminance at a distance (HX86T-4,3000K)

Distance (m)	Center Beam (lux)	Angle (15°)	Beam Width	
			(V)	(H)
2m	827 lux		0.52m	0.52m
4m	206 lux		1.04m	1.04m
6m	92 lux		1.56m	1.56m
8m	51 lux		2.09m	2.09m

## Illuminance at a distance (HX86T-4,3000K)

Distance (m)	Center Beam (lux)	Angle (25°)	Beam Width	
			(V)	(H)
2m	292 lux		0.88m	0.88m
4m	73 lux		1.76m	1.76m
6m	32 lux		2.64m	2.64m
8m	18 lux		3.53m	3.53m

## PERFORMANCE

Type	Light source	Color	The manufacturer selected lens degree (θ1/2)	Input voltage (V)	Weight
HX86T-4	1x4W	3000K/6000K	10°/15°/25°/45°	24V DC	1.5 kg
HX86T-4QD	1x4W	RGBW	10°/15°/25°/45°	24V DC	1.5 kg



# Underwater LED Spot Light



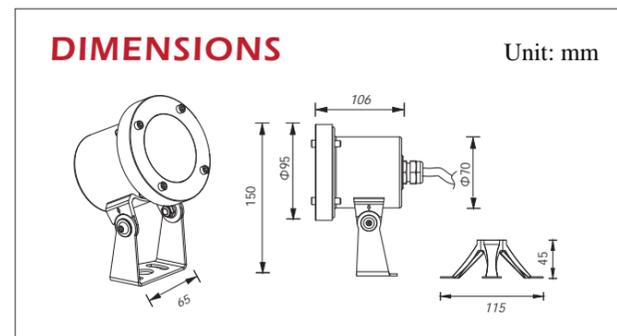
HX95T-6



## DESCRIPTION

The underwater spot light series offers unparalleled flexibility to match your creativity. The sturdy tripod design does not topple easily even when water movement is very agitated. If preferred, the fixture can also be fixed in place using just the mounting bracket. All Ideal LED lights can be programmed to dim, synchronize to create infinite combinations of kaleidoscopic displays.

**Warning:**  
Must be installed in a place where contact water or under water to prevent being damaged from over heating.



## SPECIFICATIONS

- ◆ Front cover & Housing: hard chrome plated molding shaped stainless steel SUS 316L
- ◆ Light Window: PMMA 8mm
- ◆ Gasket: silicone gasket
- ◆ PCB: excellent heat conductivity aluminum, coefficient of heat conductivity  $\geq 2.0$  w/mk
- ◆ Application environment: temperature of water between  $-20^{\circ}\text{C} \sim 40^{\circ}\text{C}$  less than 1 meter depth
- ◆ Cable gland: IP-68 PG-11 copper with nickel-oated
- ◆ Power cable: 3m STW 18AWG



### Illuminance at a distance

Distance (m)	Center Beam (LUX)	Angle	Beam Width	
			(V)	(H)
2m	587.99 LUX		0.9m	0.9m
4m	147.00 LUX		1.8m	1.8m
6m	65.33 LUX		2.8m	2.8m
8m	36.75 LUX		3.7m	3.7m
10m	23.52 LUX		4.6m	4.6m
12m	16.33 LUX		5.5m	5.5m

## PERFORMANCE

Type	Light source	The manufacturer selected lens degree( $\theta$ 1/2)	Input voltage (v)	Typical operating current (mA)	Typical consumption (w)	Typical luminance (lm)	IK rate
HX95T-6	3x2W	30°	24V DC	320	7.7	Cool white=760 Warm white=674	10

# Underwater LED Spot Light



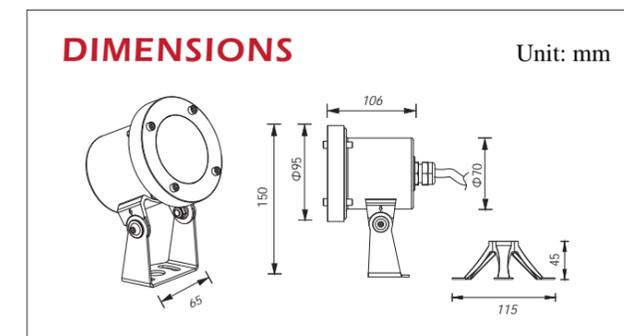
HX95T-8



## DESCRIPTION

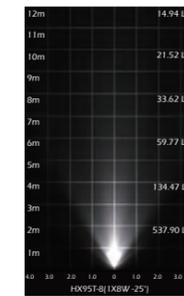
The underwater spot light series offers unparalleled flexibility to match your creativity. The sturdy tripod design does not topple easily even when water movement is very agitated. If preferred, the fixture can also be fixed in place using just the mounting bracket. All Ideal LED lights can be programmed to dim, colour- change and synchronize to create infinite combinations of kaleidoscopic displays.

**Warning:**  
Must be installed in a place where contact water or under water to prevent being damaged from over heating.



## SPECIFICATIONS

- ◆ Front cover & Housing: hard chrome plated molding shaped stainless steel SUS 316L
- ◆ Light Window: PMMA 8mm
- ◆ Gasket: silicone gasket
- ◆ PCB: excellent heat conductivity aluminum, coefficient of heat conductivity  $\geq 2.0$  w/mk
- ◆ Application environment: temperature of water between  $-20^{\circ}\text{C} \sim 40^{\circ}\text{C}$  less than 1 meter depth
- ◆ Cable gland: IP-68 PG-11 copper with nickel-oated
- ◆ Power cable: 3m STW 18AWG



### Illuminance at a distance

Distance (m)	Center Beam (LUX)	Angle	Beam Width	
			(V)	(H)
2m	537.90 LUX		0.8m	0.8m
4m	134.47 LUX		1.5m	1.5m
6m	59.77 LUX		2.3m	2.3m
8m	33.62 LUX		3.1m	3.0m
10m	21.52 LUX		3.8m	3.8m
12m	14.94 LUX		4.6m	4.6m

## PERFORMANCE

Type	Light source	The manufacturer selected lens degree( $\theta$ 1/2)	Input voltage (v)	Typical operating current (mA)	Typical consumption (w)	Typical luminance (lm)	IK rate
HX95T-8	1x8W	25°	24V DC	340	8.1	Cool white=674 Warm white=625	10





# Underwater LED Spot Light



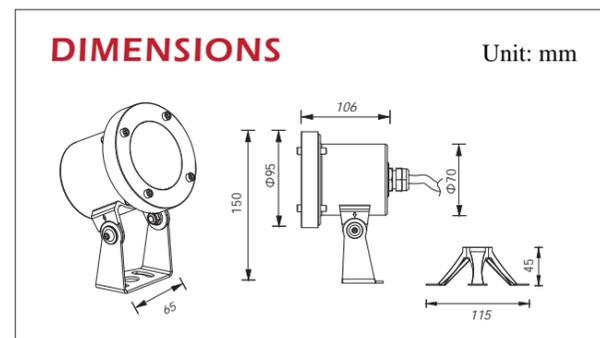
HX95T-9T



## DESCRIPTION

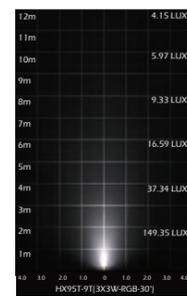
The underwater spot light series offers unparalleled flexibility to match your creativity. The sturdy tripod design does not topple easily even when water movement is very agitated. If preferred, the fixture can also be fixed in place using just the mounting bracket. All Ideal LED lights can be programmed to dim, colour- change and synchronize to create infinite combinations of kaleidoscopic displays.

**Warning:**  
Must be installed in a place where contact water or under water to prevent being damaged from over heating.



## SPECIFICATIONS

- ◆ Front cover & Housing: hard chrome plated molding shaped stainless steel SUS 316L
- ◆ Light Window: PMMA 8mm
- ◆ Gasket: EPDM gasket
- ◆ PCB: excellent heat conductivity aluminum, coefficient of heat conductivity  $\geq 2.0w/mk$
- ◆ Application environment: temperature of water between  $-20^{\circ}C \sim 40^{\circ}C$  less than 1 meter depth
- ◆ Cable gland: IP-68 PG-11 copper with nickel-oated
- ◆ Power cable: 3m STW 18AWG



### Illuminance at a distance

Distance (m)	Center Beam (LUX)	Angle	Beam Width	
			(V)	(H)
2m	149.35 LUX		1.0m	1.0m
4m	37.34 LUX		1.9m	1.9m
6m	16.59 LUX		2.9m	2.9m
8m	9.33 LUX		3.9m	3.8m
10m	5.97 LUX		4.8m	4.8m
12m	4.15 LUX		5.8m	5.7m

## PERFORMANCE

Type	Light source	The manufacturer selected lens degree(θ1/2)	Input voltage (V)	Typical operating current (mA)	Typical consumption (W)	Typical luminance (lm)	IK rate
HX95T-9T	3x3W RGB 3in1 Full color	30°	24V DC	400	9.6	239	10

# Underwater LED Spot Light



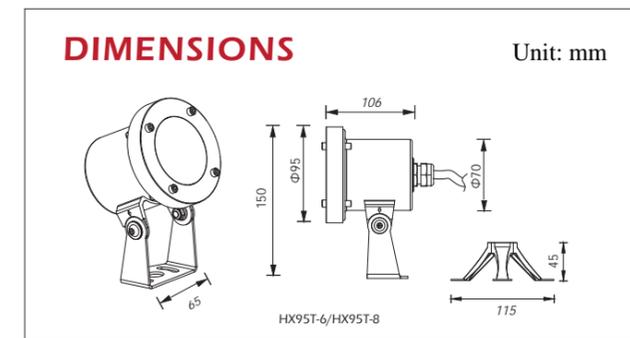
HX95T-9QD



## DESCRIPTION

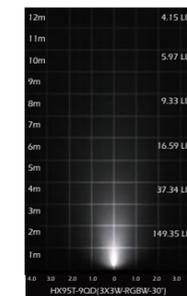
The underwater spot light series offers unparalleled flexibility to match your creativity. The sturdy tripod design does not topple easily even when water movement is very agitated. If preferred, the fixture can also be fixed in place using just the mounting bracket. RDM function: DMX address to be read and written. Provide operating voltage, current and temperature of light. Provide basic data such as supplier information.

**Warning:**  
Must be installed in a place where contact water or under water to prevent being damaged from over heating.



## SPECIFICATIONS

- ◆ Front cover & Housing: hard chrome plated molding shaped stainless steel SUS 316L
- ◆ Light Window: PMMA 8mm
- ◆ Gasket: EPDM gasket
- ◆ PCB: excellent heat conductivity aluminum, coefficient of heat conductivity  $\geq 2.0w/mk$
- ◆ LED Driver: Constant Voltage Input, Constant Current Output
- ◆ Application environment: temperature of water between  $-20^{\circ}C \sim 40^{\circ}C$  less than 1 meter depth
- ◆ Built-in Overheat Sensor System: Automatic Shutdown at  $75^{\circ}C$
- ◆ Cable gland: IP-68 PG-11 copper with nickel- coated
- ◆ Power cable: H05RR-F 3m
- ◆ Signal type: DMX512/RDM signal



### Illuminance at a distance

Distance (m)	Center Beam (LUX)	Angle	Beam Width	
			(V)	(H)
2m	149.35 LUX		1.0m	1.0m
4m	37.34 LUX		1.9m	1.9m
6m	16.59 LUX		2.9m	2.9m
8m	9.33 LUX		3.9m	3.8m
10m	5.97 LUX		4.8m	4.8m
12m	4.15 LUX		5.8m	5.7m

## PERFORMANCE

Type	Light source	The manufacturer selected lens degree(θ1/2)	Input voltage (V)	Typical operating current (mA)	Typical consumption (W)	Typical luminance (lm)	IK rate
HX95T-9QD	3x3W RGBW 4in1	30°	24V DC	437	10.5	536	10



# Underwater LED Spot Light



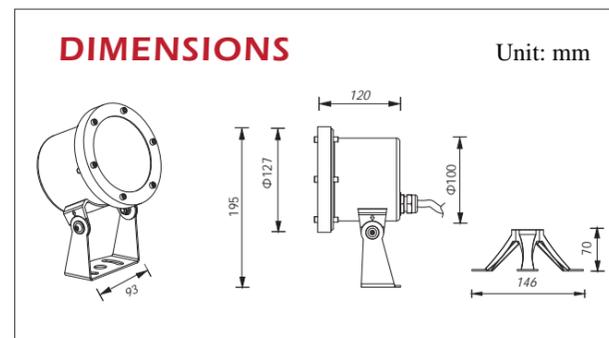
HX127T-18



## DESCRIPTION

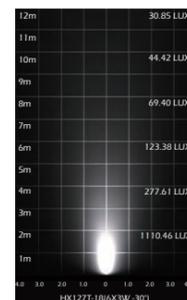
The underwater spot light series offers unparalleled flexibility to match your creativity. The sturdy tripod design does not topple easily even when water movement is very agitated. If preferred, the fixture can also be fixed in place using just the mounting bracket. All Ideal LED lights can be programmed to dim, synchronize to create infinite combinations of kaleidoscopic displays.

**Warning:**  
Must be installed in a place where contact water or under water to prevent being damaged from over heating.



## SPECIFICATIONS

- ◆ Front cover & Housing: hard chrome plated molding shaped stainless steel SUS 316L
- ◆ Light Window: PMMA 8mm
- ◆ Gasket: silicone gasket
- ◆ PCB: excellent heat conductivity aluminum, coefficient of heat conductivity  $\geq 2.0$  w/mk
- ◆ Application environment: temperature of water between  $-20^{\circ}\text{C} \sim 40^{\circ}\text{C}$  less than 1 meter depth
- ◆ Cable gland: IP-68 PG-11 copper with nickel-coated
- ◆ Power cable: 3m STW 18AWG



### Illuminance at a distance

Distance (m)	Center Beam (LUX)	Angle	Beam Width	
			(V)	(H)
2m	1110.46 LUX		1.0m	1.0m
4m	277.61 LUX		2.0m	1.9m
6m	123.38 LUX		2.9m	2.9m
8m	69.40 LUX		3.9m	3.8m
10m	44.42 LUX		4.9m	4.8m
12m	30.85 LUX		5.9m	5.7m

## PERFORMANCE

Type	Light source	The manufacturer selected lens degree( $\Theta 1/2$ )	Input voltage (v)	Typical operating current (mA)	Typical consumption (w)	Typical luminance (lm)	IK rate
HX127T-18	6x3W	30°	24V DC	900	21.5	Cool white=1700 Warm white=1503	10

# Underwater LED Spot Light



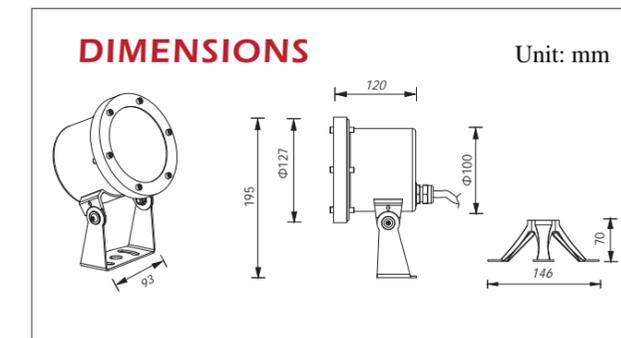
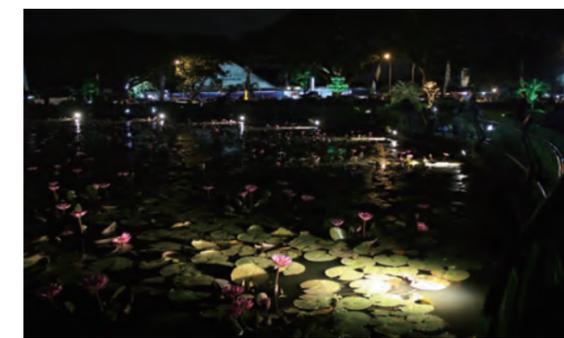
HX127T-16



## DESCRIPTION

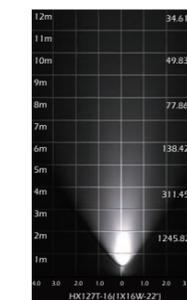
The underwater spot light series offers unparalleled flexibility to match your creativity. The sturdy tripod design does not topple easily even when water movement is very agitated. If preferred, the fixture can also be fixed in place using just the mounting bracket. All Ideal LED lights can be programmed to dim, synchronize to create infinite combinations of kaleidoscopic displays.

**Warning:**  
Must be installed in a place where contact water or under water to prevent being damaged from over heating.



## SPECIFICATIONS

- ◆ Front cover & Housing: hard chrome plated molding shaped stainless steel SUS 316L
- ◆ Light Window: PMMA 8mm
- ◆ Gasket: silicone gasket
- ◆ PCB: excellent heat conductivity aluminum, coefficient of heat conductivity  $\geq 2.0$  w/mk
- ◆ Application environment: temperature of water between  $-20^{\circ}\text{C} \sim 40^{\circ}\text{C}$  less than 1 meter depth
- ◆ Cable gland: IP-68 PG-11 copper with nickel-coated
- ◆ Power cable: 3m STW 18AWG



### Illuminance at a distance

Distance (m)	Center Beam (LUX)	Angle	Beam Width	
			(V)	(H)
2m	1245.82 LUX		0.8m	0.8m
4m	311.45 LUX		1.7m	1.6m
6m	138.42 LUX		2.5m	2.5m
8m	77.86 LUX		3.3m	3.3m
10m	49.83 LUX		4.2m	4.1m
12m	34.61 LUX		5.0m	4.9m

## PERFORMANCE

Type	Light source	The manufacturer selected lens degree( $\Theta 1/2$ )	Input voltage (v)	Typical operating current (mA)	Typical consumption (w)	Typical luminance (lm)	IK rate
HX127T-16	1x16W	22°	24V DC	700	17.0	Cool white=1344 Warm white=1183	10



# Underwater LED Spot Light



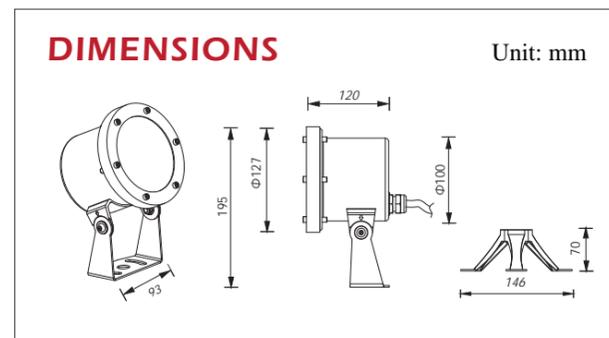
HX127T-18T



## DESCRIPTION

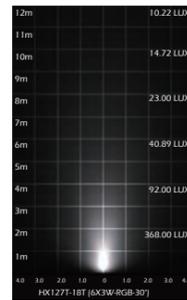
The underwater spot light series offers unparalleled flexibility to match your creativity. The sturdy tripod design does not topple easily even when water movement is very agitated. If preferred, the fixture can also be fixed in place using just the mounting bracket. All Ideal LED lights can be programmed to dim, colour-change and synchronize to create infinite combinations of kaleidoscopic displays.

**Warning:**  
Must be installed in a place where contact water or under water to prevent being damaged from over heating.



## SPECIFICATIONS

- ◆ Front cover & Housing: hard chrome plated molding shaped stainless steel SUS 316L
- ◆ Light Window: PMMA 8mm
- ◆ Gasket: EPDM gasket
- ◆ PCB: excellent heat conductivity aluminum, coefficient of heat conductivity  $\geq 2.0 \text{w/mk}$
- ◆ Application environment: temperature of water between  $-20^{\circ}\text{C} \sim 40^{\circ}\text{C}$  less than 1 meter depth
- ◆ Cable gland: IP-68 PG-11 copper with nickel-coated
- ◆ Power cable: 3m STW 18AWG



### Illuminance at a distance

Distance (m)	Center Beam (LUX)	Angle	Beam Width	
			(V)	(H)
2m	368.00 LUX		0.9m	0.9m
4m	92.00 LUX		1.9m	1.9m
6m	40.89 LUX		2.8m	2.8m
8m	23.00 LUX		3.8m	3.7m
10m	14.72 LUX		4.7m	4.7m
12m	10.22 LUX		5.7m	5.6m

## PERFORMANCE

Type	Light source	The manufacturer selected lens degree( $\Theta$ 1/2)	Input voltage (v)	Typical operating current (mA)	Typical consumption (w)	Typical luminance (lm)	IK rate
HX127T-18T	6x3W RGB 3in1	30°	24V DC	1000	24	528	10

# Underwater LED Spot Light



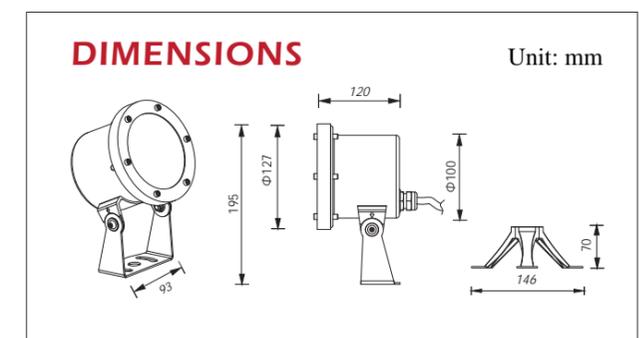
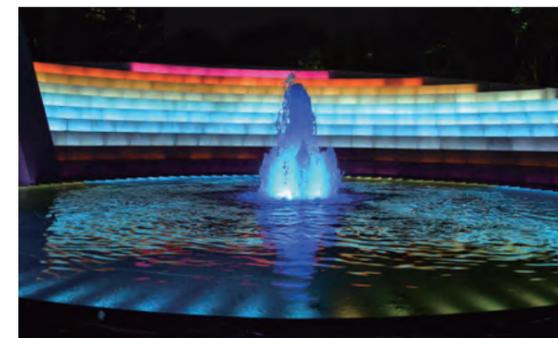
HX127T-18QD



## DESCRIPTION

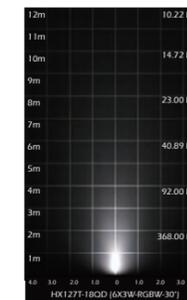
The underwater spot light series offers unparalleled flexibility to match your creativity. The sturdy tripod design does not topple easily even when water movement is very agitated. If preferred, the fixture can also be fixed in place using just the mounting bracket. RDM function: DMX address to be read and written. Provide operating voltage, current and temperature of light. Provide basic data such as supplier information.

**Warning:**  
Must be installed in a place where contact water or under water to prevent being damaged from over heating.



## SPECIFICATIONS

- ◆ Front cover & Housing: hard chrome plated molding shaped stainless steel SUS 316L
- ◆ Light Window: PMMA 8mm
- ◆ Gasket: EPDM gasket
- ◆ PCB: excellent heat conductivity aluminum, coefficient of heat conductivity  $\geq 2.0 \text{w/mk}$
- ◆ LED Driver: Constant Voltage Input, Constant Current Output
- ◆ Application environment: temperature of water between  $-20^{\circ}\text{C} \sim 40^{\circ}\text{C}$  less than 1 meter depth
- ◆ Built-in Overheat Sensor System: Automatic Shutdown at  $75^{\circ}\text{C}$
- ◆ Cable gland: IP-68 PG-11 copper with nickel-coated
- ◆ Power cable: H05RR-F 3m
- ◆ Signal type: DMX512/RDM signal



### Illuminance at a distance

Distance (m)	Center Beam (LUX)	Angle	Beam Width	
			(V)	(H)
2m	368.00 LUX		0.9m	0.9m
4m	92.00 LUX		1.9m	1.9m
6m	40.89 LUX		2.8m	2.8m
8m	23.00 LUX		3.8m	3.7m
10m	14.72 LUX		4.7m	4.7m
12m	10.22 LUX		5.7m	5.6m

## PERFORMANCE

Type	Light source	The manufacturer selected lens degree( $\Theta$ 1/2)	Input voltage (v)	Typical operating current (mA)	Typical consumption (w)	Typical luminance (lm)	IK rate
HX127T-18QD	6x3W RGBW 4in1	30°	24V DC	1000	24	1145	10



# Underwater LED Spot Light



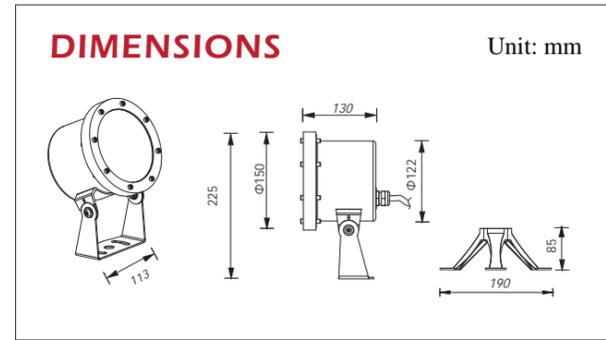
HX150T-36



## DESCRIPTION

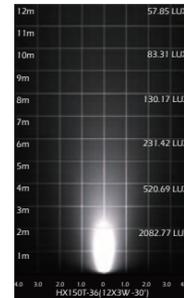
The underwater spot light series offers unparallel flexibility to match your creativity.  
 The sturdy tripod design does not topple easily even when water movement is very agitated.  
 If preferred, the fixture can also be fixed in place using just the mounting bracket.  
 All Ideal LED lights can be programmed to dim, synchronize to create infinite combinations of kaleidoscopic displays.

**Warning:**  
 Must be installed in a place where contact water or under water to prevent being damaged from over heating.



## SPECIFICATIONS

- ◆ Front cover & Housing: hard chrome plated molding shaped stainless steel SUS 316L
- ◆ Light Window: PMMA 8mm
- ◆ Gasket: silicone gasket
- ◆ PCB: excellent heat conductivity aluminum, coefficient of heat conductivity  $\geq 2.0w/mk$
- ◆ Application environment: temperature of water between  $-20^{\circ}C \sim 40^{\circ}C$  less than 1 meter depth
- ◆ Cable gland: IP-68 PG-11 copper with nickel-coated
- ◆ Power cable: 3m STW 18AWG



### Illuminance at a distance

Distance (m)	Center Beam (LUX)	Angle	Beam Width	
			(V)	(H)
2m	2082.77 LUX		1.0m	0.9m
4m	520.69 LUX		1.9m	1.9m
6m	231.42 LUX		2.9m	2.8m
8m	130.17 LUX		3.9m	3.8m
10m	83.31 LUX		4.9m	4.7m
12m	57.85 LUX		5.8m	5.6m

## PERFORMANCE

Type	Light source	The manufacturer selected lens degree( $\theta 1/2$ )	Input voltage (V)	Typical operating current (mA)	Typical consumption (W)	Typical luminance (lm)	IK rate
HX150T-36	12x3W	30°	24V DC	1600	38.4	Cool white=3031 Warm white=2668	10

# Underwater LED Spot Light



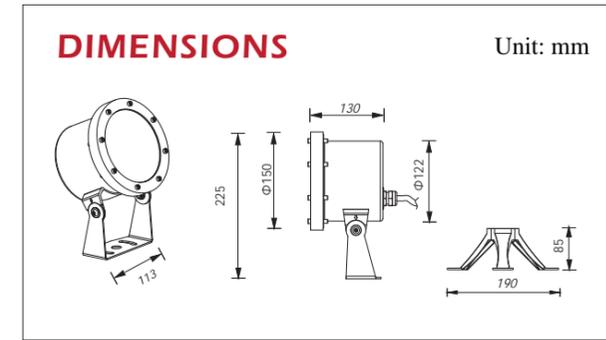
HX150T-20



## DESCRIPTION

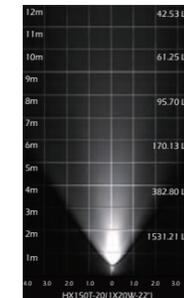
The underwater spot light series offers unparallel flexibility to match your creativity.  
 The sturdy tripod design does not topple easily even when water movement is very agitated.  
 If preferred, the fixture can also be fixed in place using just the mounting bracket.  
 All Ideal LED lights can be programmed to dim, synchronize to create infinite combinations of kaleidoscopic displays.

**Warning:**  
 Must be installed in a place where contact water or under water to prevent being damaged from over heating.



## SPECIFICATIONS

- ◆ Front cover & Housing: hard chrome plated molding shaped stainless steel SUS 316L
- ◆ Light Window: PMMA 8mm
- ◆ Gasket: silicone gasket
- ◆ PCB: excellent heat conductivity aluminum, coefficient of heat conductivity  $\geq 2.0w/mk$
- ◆ Application environment: temperature of water between  $-20^{\circ}C \sim 40^{\circ}C$  less than 1 meter depth
- ◆ Cable gland: IP-68 PG-11 copper with nickel-coated
- ◆ Power cable: 3m STW 18AWG



### Illuminance at a distance

Distance (m)	Center Beam (LUX)	Angle	Beam Width	
			(V)	(H)
2m	1531.21 LUX		0.9m	0.8m
4m	382.80 LUX		1.7m	1.7m
6m	170.13 LUX		2.6m	2.5m
8m	95.70 LUX		3.4m	3.3m
10m	61.25 LUX		4.3m	4.2m
12m	42.53 LUX		5.2m	5.0m

## PERFORMANCE

Type	Light source	The manufacturer selected lens degree( $\theta 1/2$ )	Input voltage (V)	Typical operating current (mA)	Typical consumption (W)	Typical luminance (lm)	IK rate
HX150T-20	1x20W	22°	24V DC	860	20.5	Cool white=1679 Warm white=1478	10



# Underwater LED Spot Light



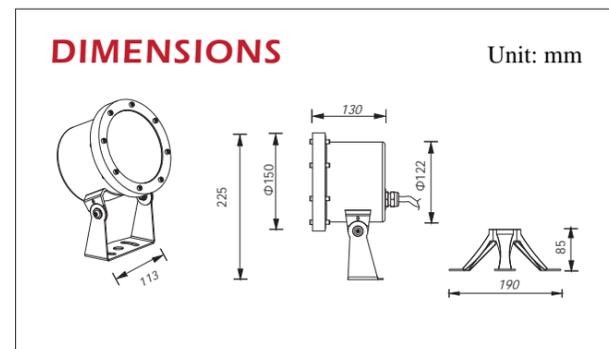
HX150T-30T



## DESCRIPTION

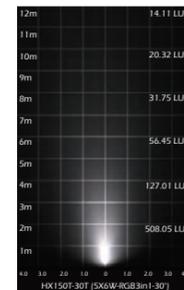
The underwater spot light series offers unparalleled flexibility to match your creativity. The sturdy tripod design does not topple easily even when water movement is very agitated. If preferred, the fixture can also be fixed in place using just the mounting bracket. All Ideal LED lights can be programmed to dim, colour- change and synchronize to create infinite combinations of kaleidoscopic displays.

**Warning:**  
Must be installed in a place where contact water or under water to prevent being damaged from over heating.



## SPECIFICATIONS

- ◆ Front cover & Housing: hard chrome plated molding shaped stainless steel SUS 316L
- ◆ Light Window: PMMA 8mm
- ◆ Gasket: EPDM gasket
- ◆ PCB: excellent heat conductivity aluminum, coefficient of heat conductivity  $\geq 2.0 \text{w/mk}$
- ◆ Application environment: temperature of water between  $-20^\circ\text{C} \sim 40^\circ\text{C}$  less than 1 meter depth
- ◆ Cable gland: IP-68 PG-11 copper with nickel-coated
- ◆ Power cable: 3m STW 18AWG



### Illuminance at a distance

Distance (m)	Center Beam (LUX)	Angle	Beam Width	
			(V)	(H)
2m	508.05 LUX		1.1m	1.1m
4m	127.01 LUX		2.1m	2.1m
6m	56.45 LUX		3.2m	3.2m
8m	31.75 LUX		4.3m	4.2m
10m	20.32 LUX		5.3m	5.3m
12m	14.11 LUX		6.4m	6.3m

## PERFORMANCE

Order No.	Light source	The manufacturer selected lens degree( $\Theta/2$ )	Input voltage (v)	Typical operating current (mA)	Typical consumption (w)	Typical luminance (lm)	IK rate
HX150T-30T	6x5W RGB 3in1	30°	24V DC	1600	38.4	835	10

# Underwater LED Spot Light



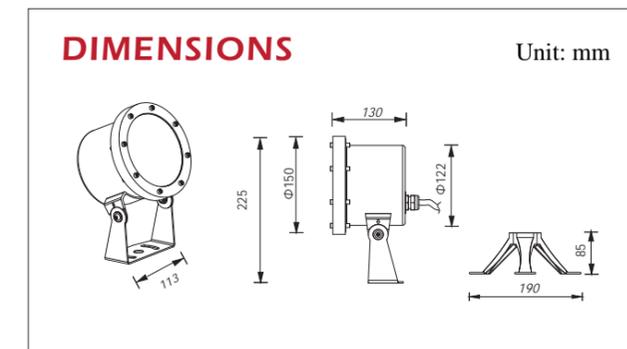
HX150T-30QD



## DESCRIPTION

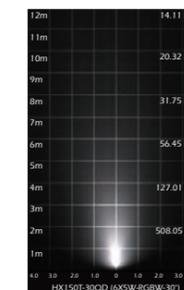
The underwater spot light series offers unparalleled flexibility to match your creativity. The sturdy tripod design does not topple easily even when water movement is very agitated. If preferred, the fixture can also be fixed in place using just the mounting bracket. RDM function: DMX address to be read and written. Provide operating voltage, current and temperature of light. Provide basic data such as supplier information.

**Warning:**  
Must be installed in a place where contact water or under water to prevent being damaged from over heating.



## SPECIFICATIONS

- ◆ Front cover & Housing: hard chrome plated molding shaped stainless steel SUS 316L
- ◆ Light Window: PMMA 8mm
- ◆ Gasket: EPDM gasket
- ◆ PCB: excellent heat conductivity aluminum, coefficient of heat conductivity  $\geq 2.0 \text{w/mk}$
- ◆ LED Driver: Constant Voltage Input, Constant Current Output
- ◆ Application environment: temperature of water between  $-20^\circ\text{C} \sim 40^\circ\text{C}$  less than 1 meter depth
- ◆ Built-in Overheat Sensor System: Automatic Shutdown at  $75^\circ\text{C}$
- ◆ Cable gland: IP-68 PG-11 copper with nickel-coated
- ◆ Power cable: H05RR-F 3m
- ◆ Signal type: DMX512/RDM signal



### Illuminance at a distance

Distance (m)	Center Beam (LUX)	Angle	Beam Width	
			(V)	(H)
2m	508.05 LUX		1.1m	1.1m
4m	127.01 LUX		2.1m	2.1m
6m	56.45 LUX		3.2m	3.2m
8m	31.75 LUX		4.3m	4.2m
10m	20.32 LUX		5.3m	5.3m
12m	14.11 LUX		6.4m	6.3m

## PERFORMANCE

Order No.	Light source	The manufacturer selected lens degree( $\Theta/2$ )	Input voltage (v)	Typical operating current (mA)	Typical consumption (w)	Typical luminance (lm)	IK rate
HX150T-30QD	6x5W RGBW 4in1	30°	24V DC	1500	36	1837	10



# Underwater LED Spot Light



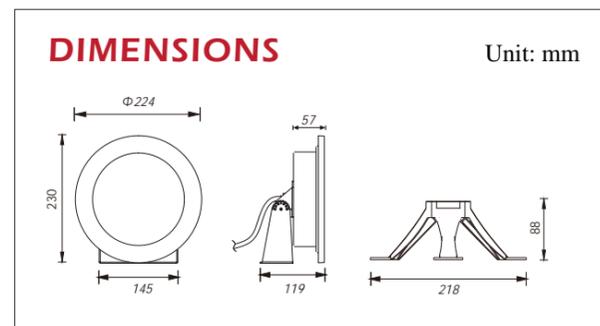
HX224T-36



**Warning:**  
Must be installed underwater to prevent being damaged from over heating.

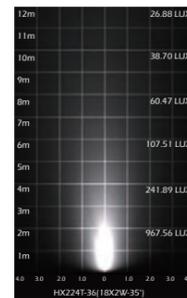
## DESCRIPTION

The underwater spot light series offers unparallel flexibility to match your creativity.  
The sturdy tripod design does not topple easily even when water movement is very agitated.  
If preferred, the fixture can also be fixed in place using just the mounting bracket.  
All Ideal LED lights can be programmed to dim, synchronize to create infinite combinations of kaleidoscopic displays.



## SPECIFICATIONS

- ◆ Front cover & Housing: hard chrome plated molding shaped stainless steel SUS 316L
- ◆ Light Window: step tempered glass. T=10mm
- ◆ Gasket: EPDM gasket
- ◆ PCB: excellent heat conductivity aluminum, coefficient of heat conductivity  $\geq 2.0w/mk$
- ◆ Application environment: temperature of water between  $-20^{\circ}C \sim 40^{\circ}C$  less than 1 meter depth
- ◆ Cable gland: IP-68 PG11 copper with nickel-coated
- ◆ Power cable: 3m STW 18AWG



## Illuminance at a distance

Distance (m)	Center Beam (LUX)	Angle	Beam Width	
			(V)	(H)
2m	967.56 LUX		1.0m	1.0m
4m	241.89 LUX		1.9m	1.9m
6m	107.51 LUX		2.9m	2.9m
8m	60.47 LUX		3.8m	3.8m
10m	38.70 LUX		4.8m	4.8m
12m	26.88 LUX		5.8m	5.7m

## PERFORMANCE

Type	Light source	The manufacturer selected lens degree( $\theta 1/2$ )	Input voltage (v)	Typical operating current (mA)	Typical consumption (w)	Typical luminance (lm)	IK rate
HX224T-36	18x2W	35°	24V DC	1900	45.6	Cool white=2221 Warm white=1828	10

# Underwater LED Spot Light



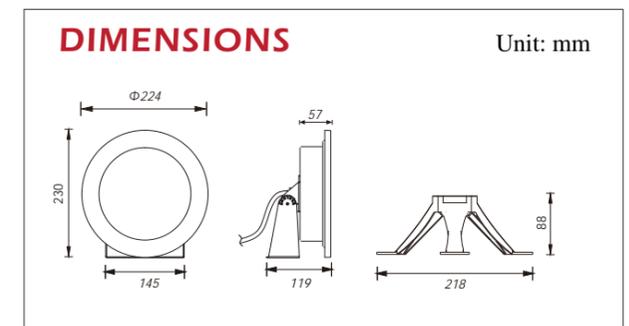
HX224T-48T



**Warning:**  
Must be installed underwater to prevent being damaged from over heating.

## DESCRIPTION

The underwater spot light series offers unparallel flexibility to match your creativity.  
The sturdy tripod design does not topple easily even when water movement is very agitated.  
If preferred, the fixture can also be fixed in place using just the mounting bracket.  
All Ideal LED lights can be programmed to dim, colour- change and synchronize to create infinite combinations of kaleidoscopic displays.



## SPECIFICATIONS

- ◆ Front cover & Housing: hard chrome plated molding shaped stainless steel SUS 316L
- ◆ Light Window: step tempered glass. T=10mm
- ◆ Gasket: EPDM gasket
- ◆ PCB: excellent heat conductivity aluminum, coefficient of heat conductivity  $\geq 2.0w/mk$
- ◆ Application environment: temperature of water between  $-20^{\circ}C \sim 40^{\circ}C$  less than 1 meter depth
- ◆ Cable gland: IP-68 PG-11 copper with nickel-coated
- ◆ Power cable: 3m STW 18AWG



## Illuminance at a distance

Distance (m)	Center Beam (LUX)	Angle	Beam Width	
			(V)	(H)
2m	854.65LUX		1.1m	1.1m
4m	213.66 LUX		2.2m	2.1m
6m	94.96 LUX		3.3m	3.2m
8m	53.42 LUX		4.4m	4.3m
10m	34.19 LUX		5.5m	5.3m
12m	23.74 LUX		6.6m	6.4m

## PERFORMANCE

Type	Light source	The manufacturer selected lens degree( $\theta 1/2$ )	Input voltage (v)	Typical operating current (mA)	Typical consumption (w)	Typical luminance (lm)	IK rate
HX224T-48T	12x4W RGB 3in1	30°	24V DC	2400	57.6	1488	10





# Underwater LED Spot Light



HX211TL-12

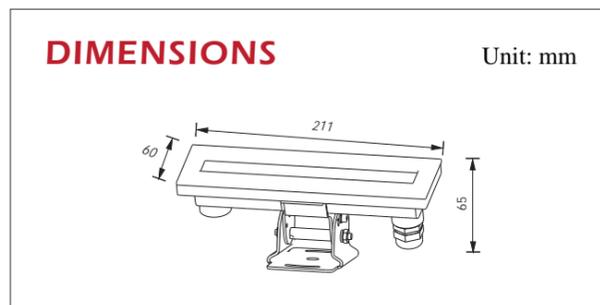


**Warning:**  
Must be installed in a place where contact water or under water to prevent being damaged from over heating.



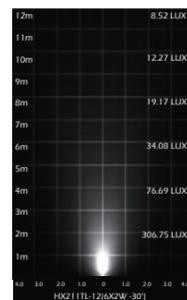
## DESCRIPTION

The linear design of the underwater LED spot light series opens up new possibilities when lighting your pool. The versatile mounting bracket of the underwater LED spot light HX211TL enables a true 180° range of tilt which allows it to be used as an up or down lighter. Perfect as wall-washers and for water features with long edges that need to be accentuated. All Ideal LED lights can be programmed to dim, synchronize to create infinite combinations of kaleidoscopic displays.



## SPECIFICATIONS

- ◆ Housing: hard chrome plated molding shaped stainless steel SUS 316
- ◆ Front cover: hard chrome plated stainless steel SUS 316L
- ◆ Light Window: step tempered glass. T=5mm
- ◆ PCB: excellent heat conductivity aluminum, coefficient of heat conductivity ≥ 2.0w/mk
- ◆ Application environment: temperature of water between -20°C ~ 40°C less than 1 meter depth
- ◆ Cable gland: IP-68 PG-11 copper with nickel-coated
- ◆ Power cable: 3m STW 18AWG
- ◆ Seal: molding shaped silicon seal under the front cover silicon glue among LED, lens and PCB



### Illuminance at a distance

Distance (m)	Center Beam (LUX)	Angle	Beam Width	
			(V)	(H)
2m	306.75 LUX		1.1m	1.1m
4m	76.69 LUX		2.1m	2.1m
6m	34.08 LUX		3.2m	3.2m
8m	19.17 LUX		4.3m	4.2m
10m	12.27 LUX		5.3m	5.3m
12m	8.52 LUX		6.4m	6.4m

## PERFORMANCE

Type	Light source	The manufacturer selected lens degree(θ1/2)	Input voltage (v)	Typical operating current (mA)	Typical consumption (w)	Typical luminance (lm)	IK rate
HX211TL-12	6x2W	30°	24V DC	491	11.8	Cool white=605 Warm white=520	08

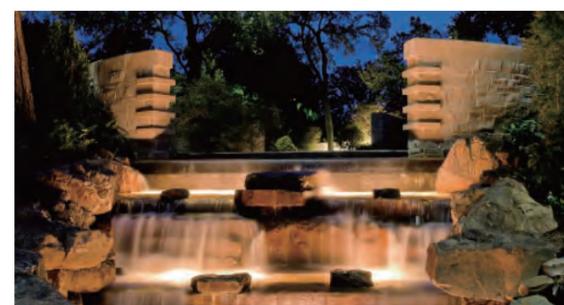
# Underwater LED Spot Light



HX211TL-12T

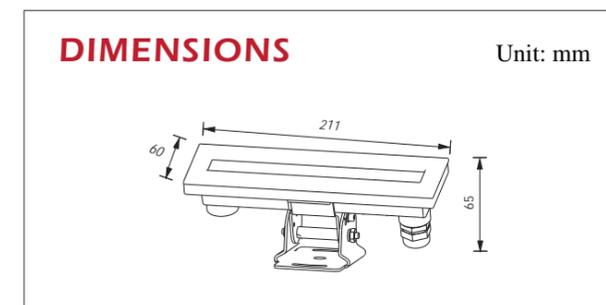


**Warning:**  
Must be installed in a place where contact water or under water to prevent being damaged from over heating.



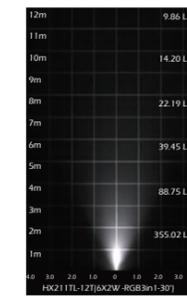
## DESCRIPTION

The linear design of the underwater LED spot light series opens up new possibilities when lighting your pool. The versatile mounting bracket of the underwater LED spot light HX211TL enables a true 180° range of tilt which allows it to be used as an up or down lighter. Perfect as wall-washers and for water features with long edges that need to be accentuated. All Ideal LED lights can be programmed to dim, colour- change and synchronize to create infinite combinations of kaleidoscopic displays.



## SPECIFICATIONS

- ◆ Housing: hard chrome plated molding shaped stainless steel SUS 316
- ◆ Front cover: hard chrome plated stainless steel SUS 316L
- ◆ Light Window: step tempered glass. T=5mm
- ◆ PCB: excellent heat conductivity aluminum, coefficient of heat conductivity ≥ 2.0w/mk
- ◆ Application environment: temperature of water between -20°C ~ 40°C less than 1 meter depth
- ◆ Cable gland: IP-68 PG-11 copper with nickel-coated
- ◆ Power cable: 3m STW 18AWG
- ◆ Seal: molding shaped silicon seal under the front cover silicon glue among LED, lens and PCB



### Illuminance at a distance

Distance (m)	Center Beam (LUX)	Angle	Beam Width	
			(V)	(H)
2m	355.02 LUX		0.9m	1.0m
4m	88.75 LUX		1.9m	1.9m
6m	39.45 LUX		2.8m	2.9m
8m	22.19 LUX		3.8m	3.8m
10m	14.20 LUX		4.7m	4.8m
12m	9.86 LUX		5.6m	5.7m

## PERFORMANCE

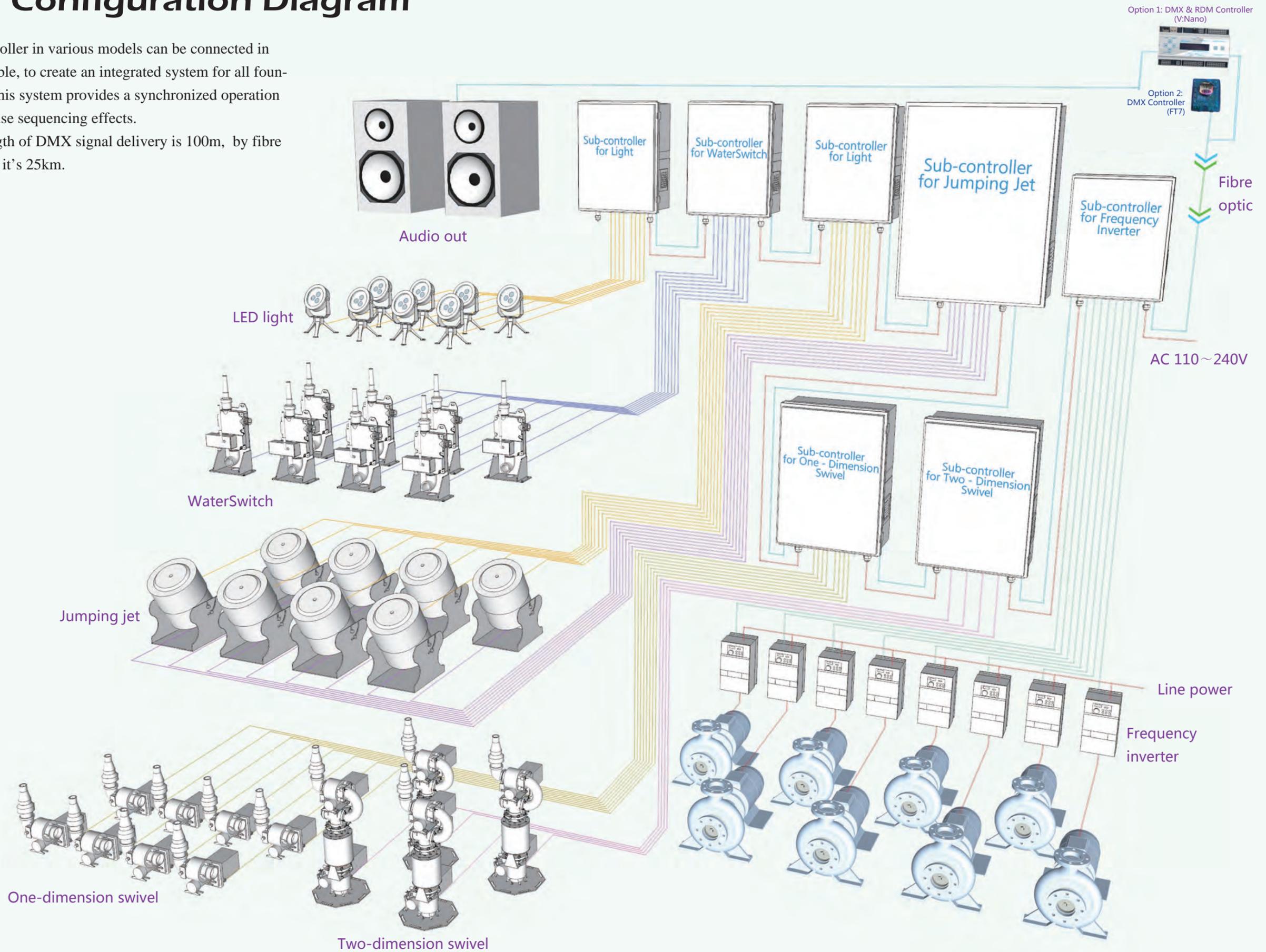
Type	Light source	The manufacturer selected lens degree(θ1/2)	Input voltage (v)	Typical operating current (mA)	Typical consumption (w)	Typical luminance (lm)	IK rate
HX211TL-12T	6x2W RGB 3in1 Full color	30°	24V DC	R=200 G=250 B=250	16.8	465	08



# System Configuration Diagram

Multiple Sub-controller in various models can be connected in series via DMX cable, to create an integrated system for all fountain equipments. This system provides a synchronized operation which creates precise sequencing effects.

The maximum length of DMX signal delivery is 100m, by fibre optic transmission, it's 25km.



## SC Series DMX Sub-controller

SC series DMX sub-controller is a comprehensive solution to the integration of fountain equipment's & DMX control system. It creates the perfect interface between light, jumping jet, shooter jet, frequency inverter for pump and the DMX controller.

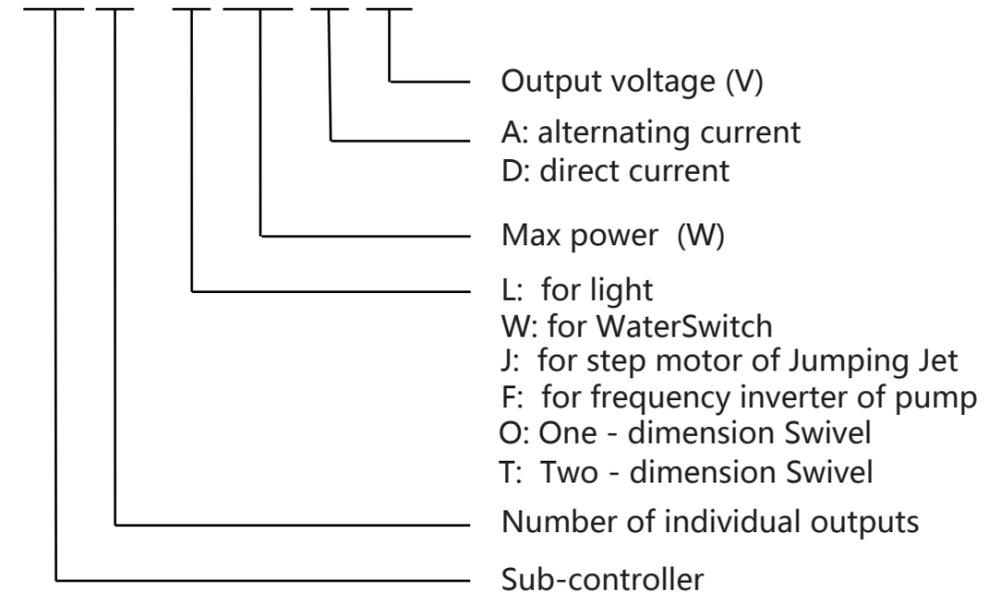
All sequencing lighting and water effects can be synchronized in precise timing by DMX programming.



- ◆ Receive DMX 512 (1990) signal.
- ◆ Variety of models available for different applications.
- ◆ Can be connected in series via DMX cable.
- ◆ 4-points wall mounting.
- ◆ Built-in cooling fan.
- ◆ SP21/3P cable joint for power supply.
- ◆ XS12/3P cable joint for DMX signal connection.
- ◆ Multiple lock joint for output cable.

### KEYWORD

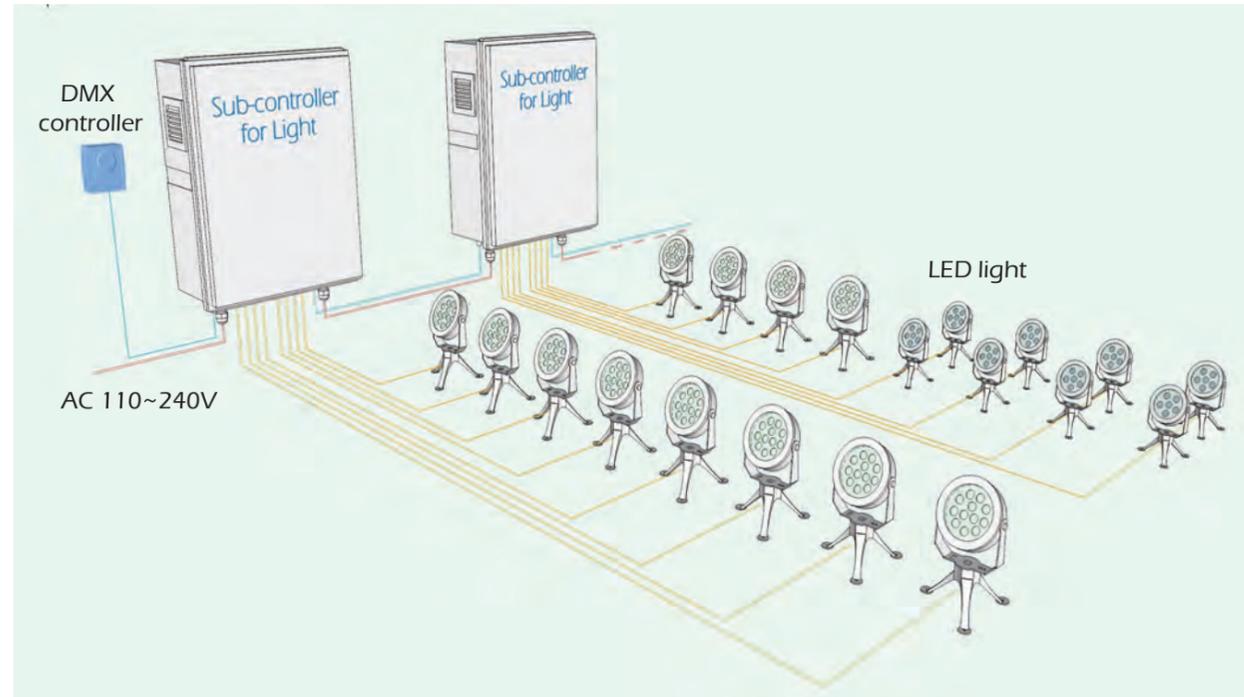
SC 8 - L 320 D 24



## SC Series DMX Sub-controller

### DMX Sub-controller for LED Light

There are 8 output connections per Sub-controller - the LED lights can be controlled individually or in clusters. The number of lights per loop is limited to the power output.



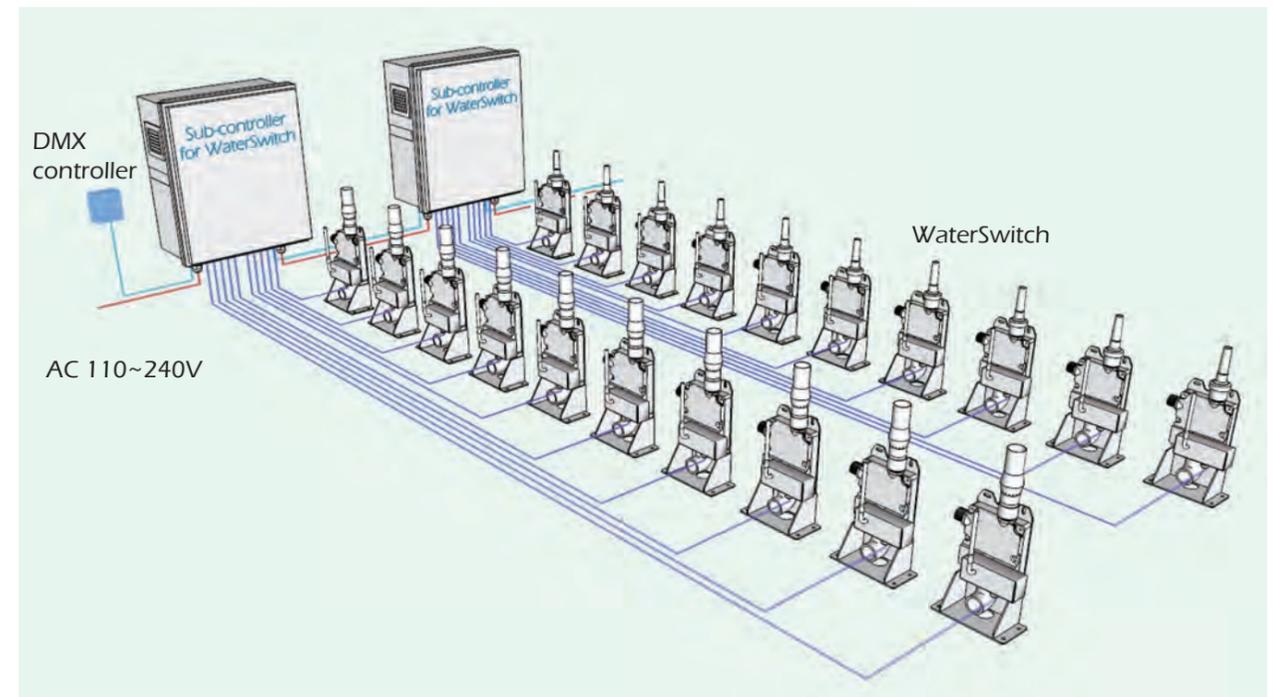
### SPECIFICATION

Model	SC8-L320D24	SC8-L600D24	SC8-L320D12
I/O Signal	DMX 512		
Input Voltage	110~240V AC		
Loops of Output	8 loops		
Power Output per Loop	36 W	72 W	36 W
Output Current per Loop	1.5 A	3 A	3 A
Output Voltage	24VDC	24VDC	12VDC
Temperature	-10~+60 °C		
Humidity	20~90 %RH		
Cooling	Built-in cooling fan		
Dimensions (L x W x H) (mm)	500 x 400 x 200		
Weight	8 kg		
Material	ABS		
Color	Creamy white		

## SC Series DMX Sub-controller

### DMX Sub-controller for WaterSwitch

There are 10 output connections per sub-controller – each WaterSwitch can be individually controlled.



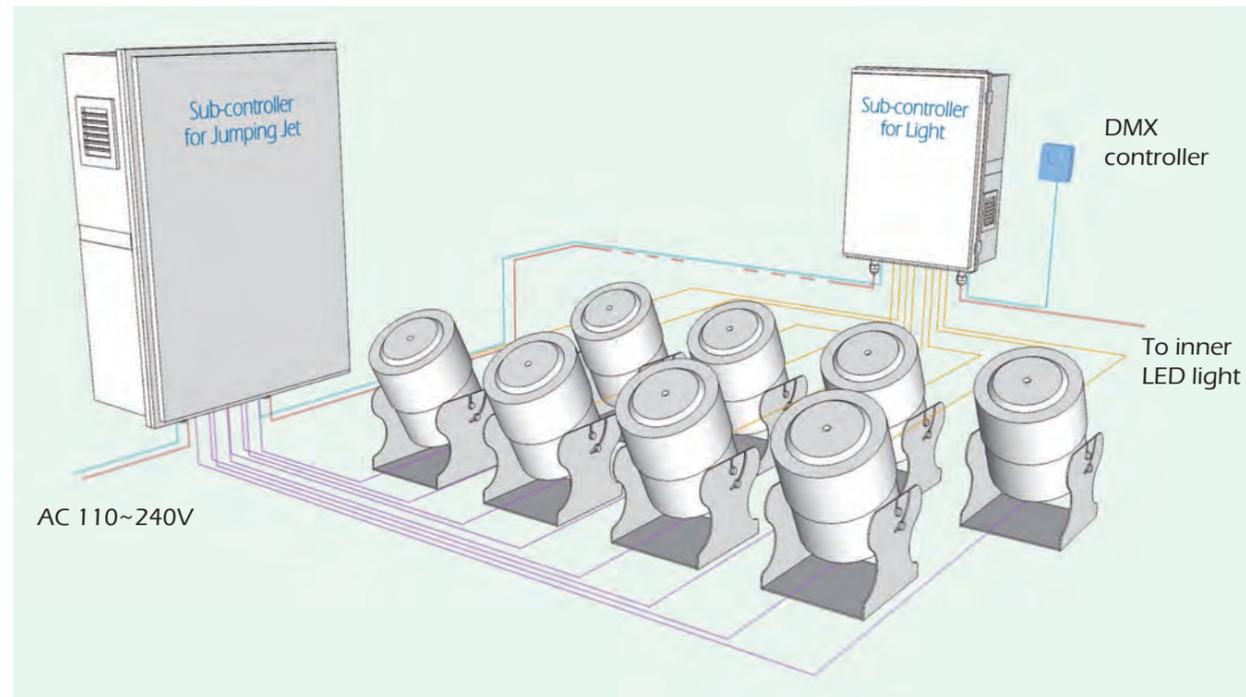
### SPECIFICATION

Model	SC10-W150D24
I/O Signal	DMX 512
Input Voltage	110~240V AC
Loops of Output	10 loops
Power Output per Loop	10 W
Output Current per Loop	0.4 A
Output Voltage	24V DC
Temperature	-10~+60 °C
Humidity	20~90 %RH
Cooling	Built-in cooling fan
Dimensions (L x W x H) (mm)	500 x 400 x 200
Weight	8 kg
Material	ABS
Color	Creamy white

## SC Series DMX Sub-controller

### DMX Sub-controller for Jumping Jet.

There are 8 output connections per sub-controller for jumping jets – each Jumping Jet can be individually controlled. A sub-controller for lighting is required separately when built-in LED are used.



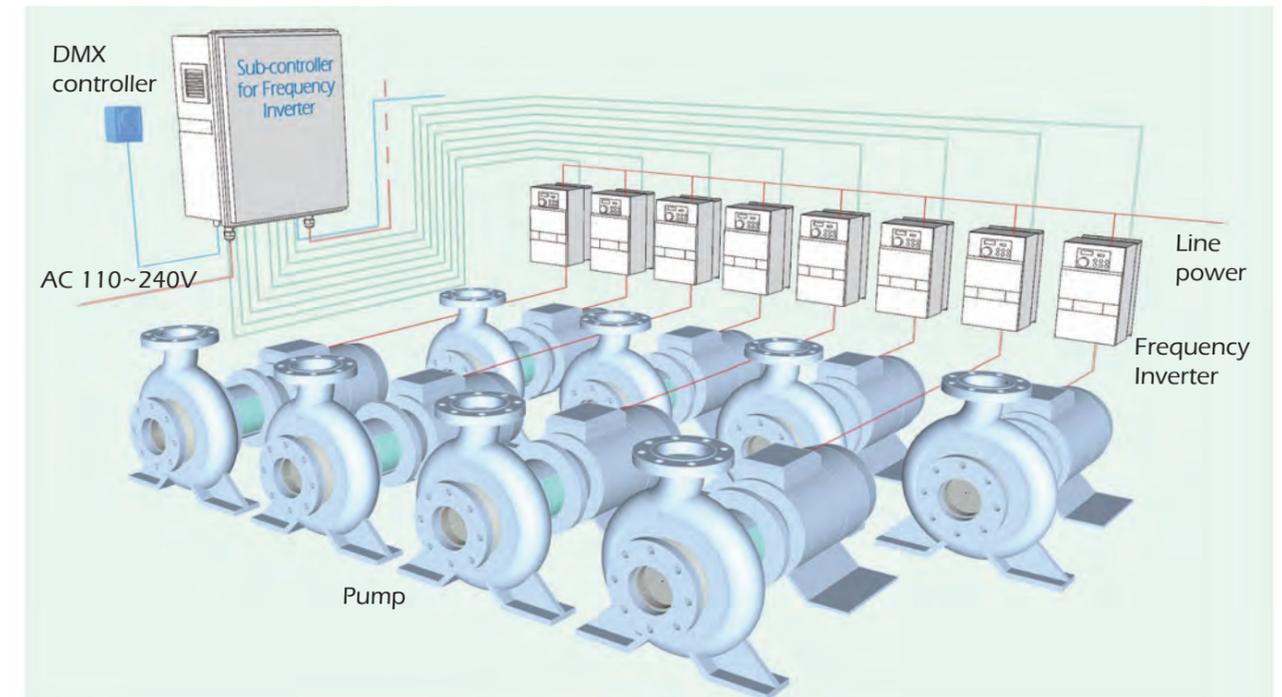
### SPECIFICATION

Model	SC8-J960D24	SC4-J640D24
I/O Signal	DMX 512	
Input Voltage	110~240V AC	
Loops of Output	8 loops	4 loops
Power Output per Loop	72 W	
Output Current per Loop	3 A	
Output Voltage	24V DC	
Temperature	-10~+60 °C	
Humidity	20~90 %RH	
Cooling	Built-in cooling fan	
Dimensions (L x W x H) (mm)	830 x 630 x 300	
Weight	35 kg	11.6 kg
Material	ABS	
Color	Creamy white	

## SC Series DMX Sub-controller

### DMX Sub-controller for Frequency Inverter.

There are 8 output connections per sub-controller for 8 inverters – each inverter can be individually controlled – the speed of pump changes in response to DMX signal via inverter (0~60Hz stepless).



### SPECIFICATION

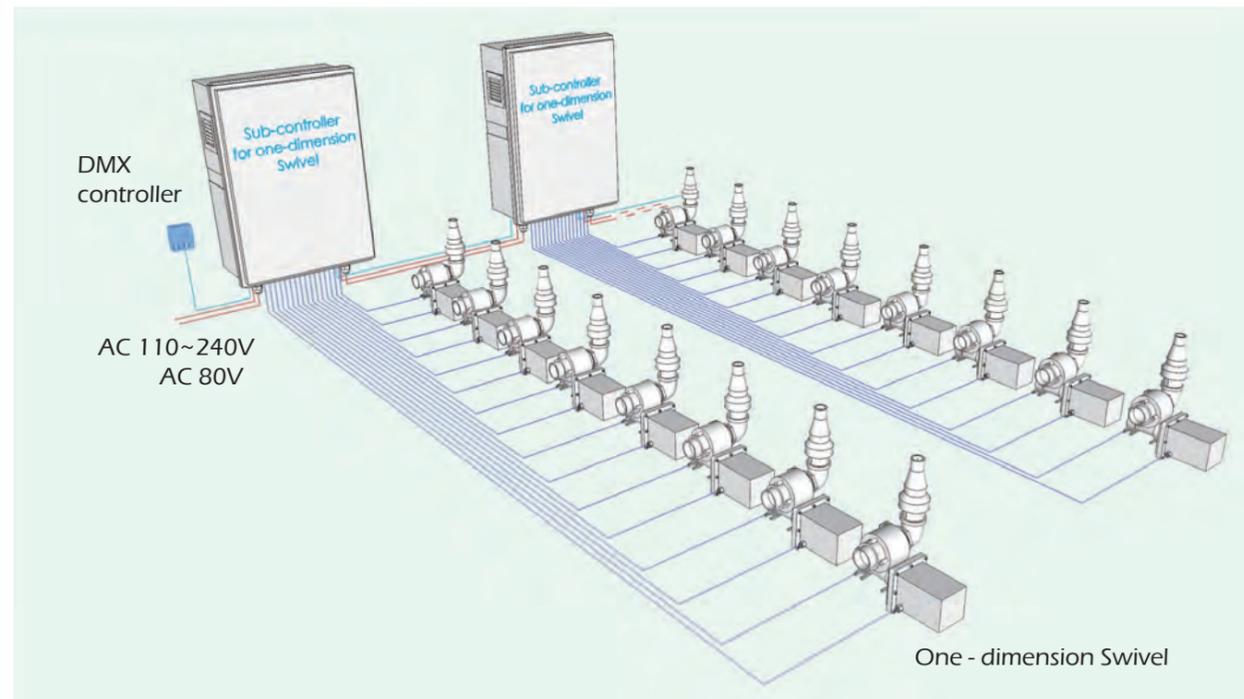
Model	SC8-F35	SC-F204
I/O Signal	DMX 512	
Input Voltage	110~240V AC	
Loops of Output	8 loops	4 loops
Power Output per Loop	4 W	
Output Current per Loop	20 mA	
Output Voltage	10V DC	
Temperature	-10~+55 °C	
Humidity	20~90 %RH	
Cooling	Natural air	
Dimensions (L x W x H) (mm)	500 x 400 x 160	
Weight	6.5 kg	6.2 kg
Material	ABS	
Color	Creamy white	



## SC Series DMX Sub-controller

### DMX Sub-controller for One-dimension Swivel

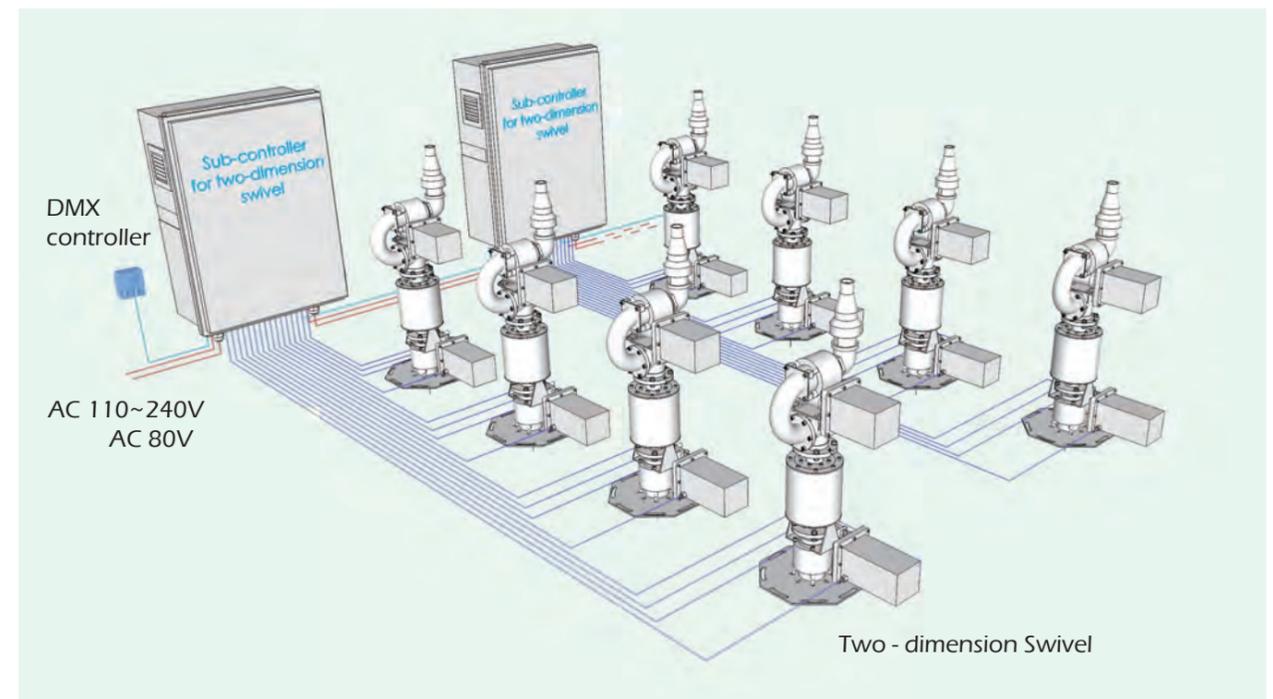
There are 8 output connections per sub-controller for one - dimension swivel – each one-dimension swivel can be individually controlled.



## SC Series DMX Sub-controller

### DMX Sub-controller for Two-dimension Swivel

There are 4 output connections per sub-controller for two-dimension swivel – each two-dimension swivel can be individually controlled.



### SPECIFICATION

Model	SC8-O300A80
I/O Signal	DMX 512
Input Voltage ( Control )	110-240V AC
Input Voltage ( Stepper motor )	80V AC
Loops of Output	8
Power Output per Loop	300W
Output Current per Loop	4A
Output Voltage (Sensor)	24V DC
Output Voltage (Stepper motor)	80V AC
Temperature	-10~+50 °C
Humidity	20~90 %RH
Cooling	Built-in cooling fan
Dimensions (L x W x H) (mm)	830 x 630 x 300
Weight	35 kg
Material	ABS
Color	Creamy white

### SPECIFICATION

Model	SC4-T700A80
I/O Signal	DMX 512
Input Voltage (Control)	110-240V AC
Input Voltage (Stepper motor)	80V AC
Loops of Output	4
Power Output per Loop	700W
Output Current per Loop	9 A
Output Voltage (Sensor)	24V DC
Output Voltage (Stepper motor)	80V AC
Temperature	-10~+50 °C
Humidity	20~90 %RH
Cooling	Built-in cooling fan
Dimensions (L x W x H) (mm)	830 x 630 x 300
Weight	35 kg
Material	ABS
Color	Creamy white



# Intergrated control system

ICS1024/ICS1024M-2/ICS512-2



INTEGRATED CONTROL SYSTEM	ICS1024	ICS1024M-2	ICS512-2
Dimensions (L x W x H) (mm)	400x185x500	400x185x500	400x185x500
Weight	10.2 kg	10.2 kg	10.2 kg
Housing	ABS	ABS	ABS
Protection class	IP20	IP20	IP20
Backup Battery	3V lithium battery CR2032 x 1	—	—
Backup Battery Life	It depends on the temperature used and the conditions of usage, about 3 years or more at 25°C		—
Storage Temperature	0-50°C	0-50°C	0-50°C
Operation temperature	0-40°C/0-80°C humidity non-condensed	0-40°C/0-80°C humidity non-condensed	0-40°C/0-80°C humidity non-condensed
Power supply	220V AC	220V AC	220V AC
Outputs	16 x Digital out	8 x Digital out	8 x Digital out
Inputs	16 x Digital in	12 x Digital in	12 x Digital in
Memory	Micro SD-Card for Show-Files	Micro SD-Card for Show-Files	Micro SD-Card for Show-Files
Operation	HMI	HMI	HMI
Audio	—	Yes	—
Standalone shows	ARC-Stream file& Audio file	WDS file	WDS file
Interface	2x512DMX channels for ICS1024M/ICS1024	2x512DMX channels for ICS1024M-2 1x512DMX channels for ICS512-2	2x512DMX channels for ICS1024M-2 1x512DMX channels for ICS512-2
Scheduler	General 10 nos. / Special 1 no.	General 10 nos. / Special 1 no.	General 10 nos. / Special 1 no.
Action Manager & monitor	Event Actions: Digital Inputs can be linked with actions (water level) and monitor	Event Actions: Digital Inputs can be linked with actions (water level) and monitor	Event Actions: Digital Inputs can be linked with actions (water level) and monitor
Software	Windows 10 or better	Windows 10 or better	Windows 10 or better

# DMX & RDM Controller

V:Nano 512/V:Nano 1024 music



Ideal rolls out its new DIN-rail fanless ruggedized embedded systems with extra low power CPU chipset, the V:Nano 512 / V:Nano 1024 music. Made for the rugged environment, this compact unit supports wide temperature range and features DMX 512/1990 ports, isolated Ethernet port 10/100 Mbit, Micro SD card slot, 2x 16 LCD segment display.

Its 8 x digital and 8 x analog I/O makes this unit the perfect tool for all stand alone fountain multimedia show Installations. The DIN-rail hardware family is compatible to all Dependence architect or ultimate versions.

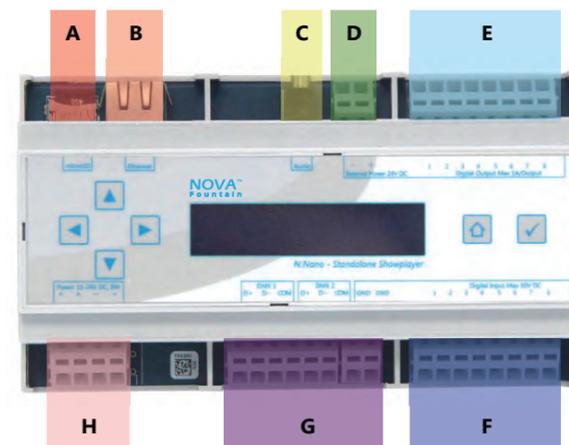
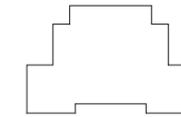
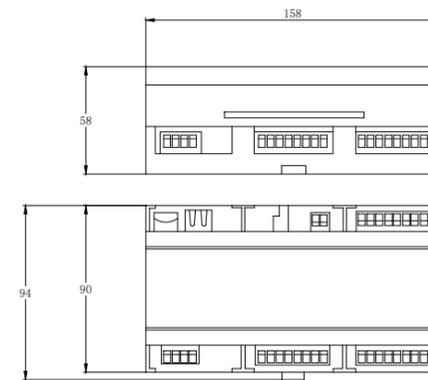
Show Upload can be done via SD Card or local network. Windows Remote Live Panel Software and Service tools will be shipped with this package as well.

- ◆ Standalone Multimedia Showplayer
- ◆ 512/1024 DMX output channels
- ◆ Audio Output (V:Nano 1024 only)
- ◆ Time Schedule with internal clock
- ◆ Show upload via MicroSD-Card or Ethernet
- ◆ 8x Digital Input and 8x Digital Output
- ◆ DIN-Rail mounting
- ◆ Live-Panel functionality via Remote Software
- ◆ Easy to use front panel setup
- ◆ ArtNET Node functionality

Made  
in Germany

## DIMENSIONS

Unit: mm



A: MicroSD Card Slot-Any number of shows or sequences for a project can be saved in the micro SD card (4GB included)

B: Ethernet 10/100 Mbit-update shows

C: Audio output 3.5mm Jack Plug (V:Nano 1024 music only)

D: External Power 24V DC

E: 8x digital output max 1A/Output

F: Digital Input max. 24V DC

G: DMX 512/1990 ("V:Nano 512" 512 channel / "V:Nano 1024 music" 1024 channel)

H: Power input 15-24V DC, 8W

DMX & RDM Controller	V:Nano 512	V:Nano 1024 music
Dimensions (L x W x H)	160 x 90 x 58 mm	
Weight	0.33 kg	
Housing	Polycarbonate Light grey/white/blue for top-hat rail mounting	
Protection class	IP20	
Power supply	15..24V DC/ 8W	
Operation temperature	0..40°C / 0..80% humidity non-condensed	
Certification	CE	
Outputs	DMX 512/1990 512 channel 8 x Digital Out (Clamps 24V DC/ 1A max., optically isolated)	DMX 512/1990 1024 channel 8 x Digital Out (Clamps 24V DC/ 1A max., optically isolated) 1 x Stereo Audio (3,5 mm jack plug, galvanic isolated)
Inputs	8 x Digital In (Clamps 24V DC., optically isolated)	
Others connections	Ethernet RJ45 10/100Mbit	
Memory	MicroSD-Card	
Operation	2 x 16 Segment LCD Display with 6 keys	



# Y-Strainer

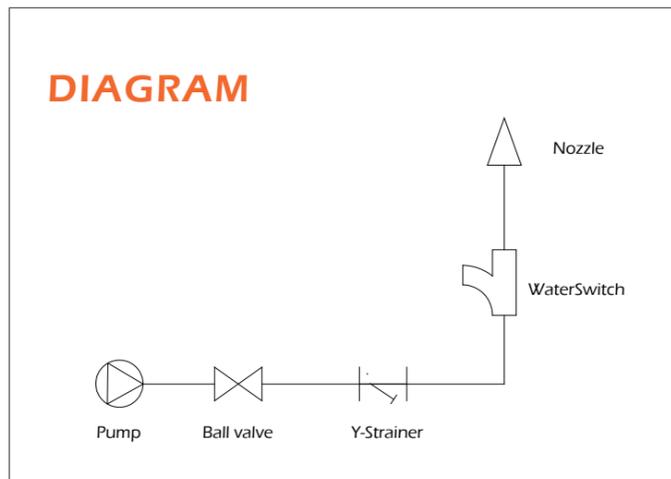
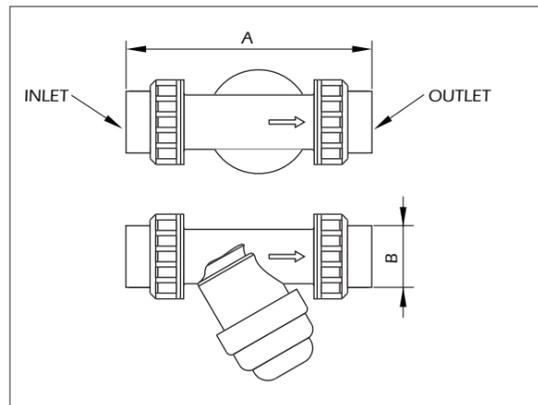
The Y-strainer is designed to be used with nozzle to protect nozzles from clogging:

## CHARACTERISTICS

- ◆ Available in various sizes and flows.
- ◆ Can be combined with other Y-strainer products to increase filtration.
- ◆ Made of plastic.

## DIMENSIONS

Type	Inlet	Outlet	A dim (mm)	B dim (mm)	Mesh Opening Size(mm)
Y25	De32	De32	186	150	1
Y32	De40	De40	223	147	1
Y40	De50	De50	234	163	1



# Swivel Connector

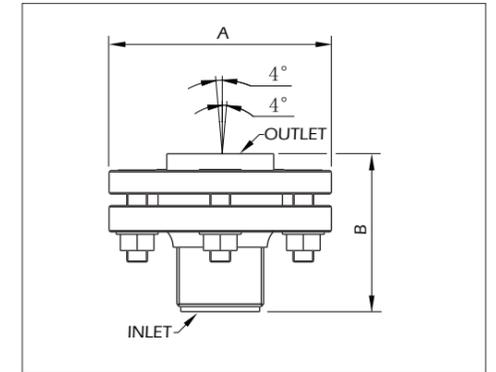
Connects to the bottom of nozzles to help directional alignment after installation:

## CHARACTERISTICS

- ◆ Adjusts up to 4° from center line.
- ◆ Made of stainless steel fitted

## DIMENSIONS

Type	Inlet	Outlet	A dim (mm)	B dim (mm)
SJ25	G1"	G1"	84	60
SJ40	G1 1/2"	G1 1/2"	102	81
SJ50	G2"	G2"	117	77



# Quick Connector

Two parts respectively connect to the pipe and the bottom of nozzle to help install and dismantle

## CHARACTERISTICS

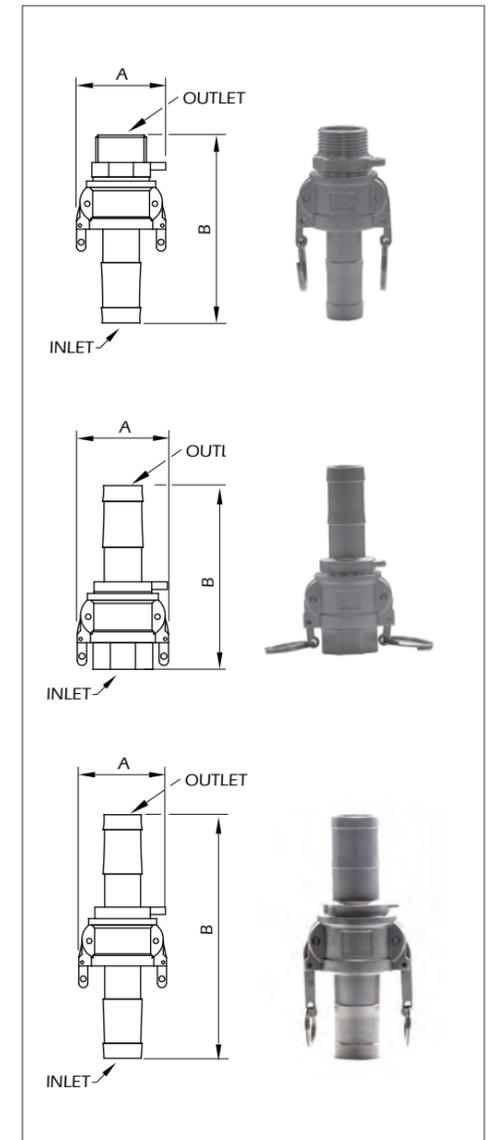
- ◆ Made of stainless steel fitted
- ◆ Three kinds of outlets

## DIMENSIONS

Type	Inlet (Pagoda Joint)	Outlet (Inside Thread)	A dim (mm)	B dim (mm)
QCI25	Φ25	G1"	58	118
QCI40	Φ39.4	G1 1/2"	85	134
QCI50	Φ51.2	G2"	95	147

Type	Inlet (Outside Thread)	Outlet (Pagoda Joint)	A dim (mm)	B dim (mm)
QCO25	G1"	Φ25	58	123
QCO40	G1 1/2"	Φ39.4	85	140
QCO50	G2"	Φ51.2	95	160

Type	Inlet (Pagoda Joint)	Outlet (Pagoda Joint)	A dim (mm)	B dim (mm)
QCP25	Φ25	Φ25	58	162
QCP40	Φ39.4	Φ39.4	85	180
QCP50	Φ51.2	Φ51.2	95	195



# Underwater Power Supply

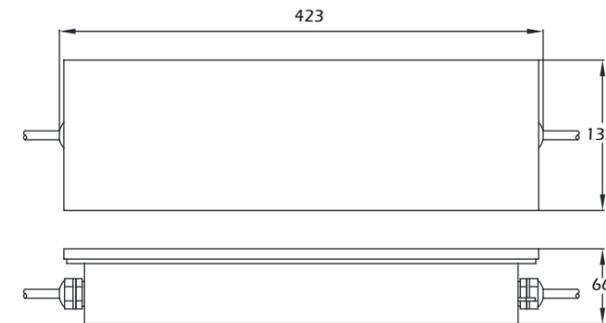


## HXPS-200-12 / HXPS-200-24

The underwater power supply HXPS-200 is fully potted power supply. It is a 200W industrial AC/DC power supply featuring the outstanding capability to operate under a harsh environment with high dust density, humidity, vibration and altitude. The entire series is housed with a stainless steel 304 case and fully potted with epoxy resin. It guarantees a safe and long-lasting functioning under water. Even low voltage devices can now be operated with the underwater power supply which leads to enormous reduction of time and material cost at the installation sites.

### DIMENSIONS

Unit: mm



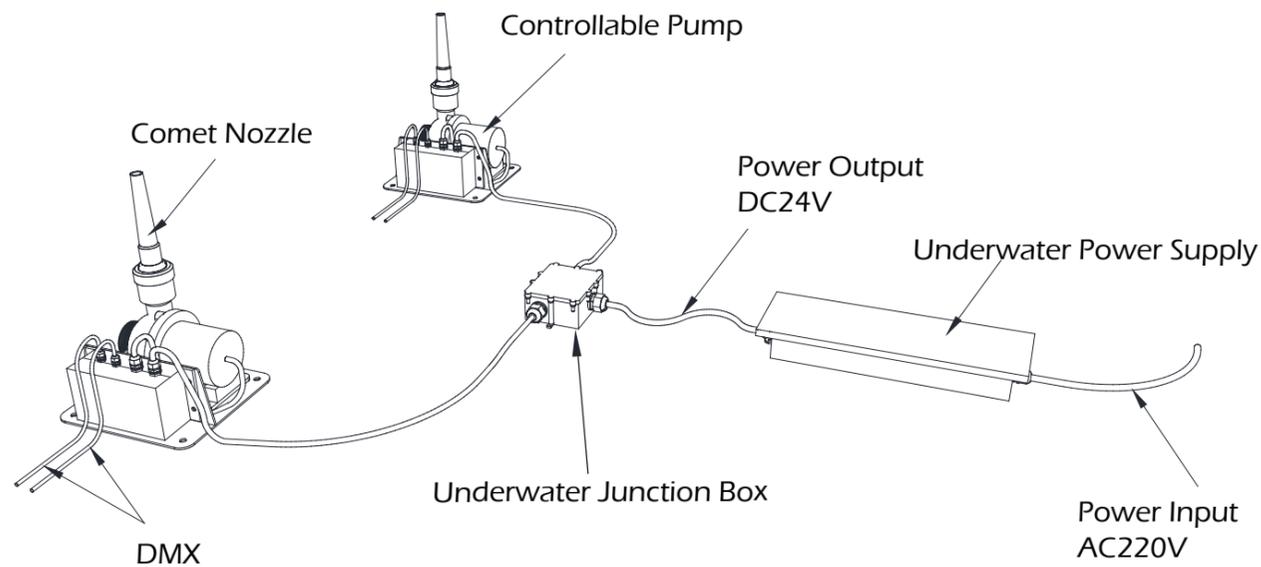
HXPS-200-12 / HXPS-200-24



### CHARACTERISTICS

- ◆ Constant Voltage & Constant current mode output.
- ◆ No load / Standby power consumption < 0.5W
- ◆ IP68 design. Rating for underwater installation.
- ◆ Typical lifetime > 40000 hours.
- ◆ Cable type (Input): 1.5m STW 18AWG/3C
- ◆ Cable type (Output): 1.5m STW 18AWG/2C

Type	HXPS-200-12	HXPS-200-24
Dimensions (L×W×H) [mm]	423×132×66	423×132×66
Nominal input voltage[V/AC]	100-305	100-305
Nominal input frequency[Hz]	47~63	47~63
Output voltage[V]	12	24
Output current[A]	16	8.4
Efficiency[%]	90	92
Protection class	IP68	IP68
Weight[kg]	5	5

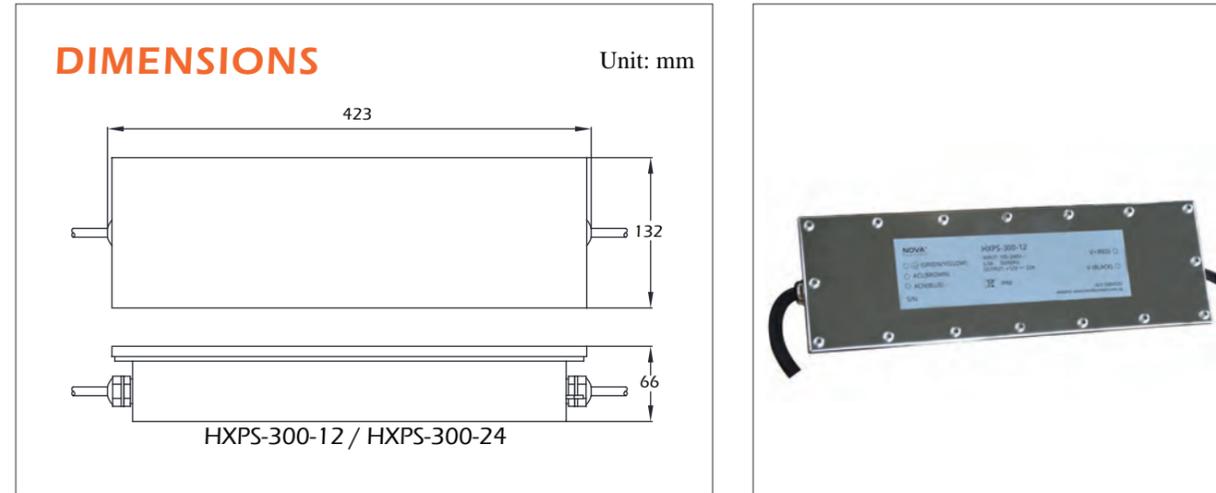


## HXPS-300-12 / HXPS-300-24

The underwater power supply HXPS-300 is fully potted power supply. It is a 300W industrial AC/DC power supply featuring the outstanding capability to operate under a harsh environment with high dust density, humidity, vibration and altitude.

The entire series is housed with a stainless steel 304 case and fully potted with epoxy resin. It guarantees a safe and long-lasting functioning under water.

Even low voltage devices can now be operated with the underwater power supply which leads to enormous reduction of time and material cost at the installation sites.



### CHARACTERISTICS

- ◆ Constant Voltage & Constant current mode output.
- ◆ Protection Functions: OCP, SCP, OVP, OTP.
- ◆ IP68 design. Rating for underwater installation.
- ◆ Typical lifetime > 40000 hours.
- ◆ Cable type(Input): 1.5m STW 18AWG/3C
- ◆ Cable type(Output): 1.5m STW 18AWG/2C

Type	HXPS-300-12	HXPS-300-24
Dimensions (L×W×H) [mm]	423×132×66	423×132×66
Nominal input voltage[V/AC]	100-305	100-305
Nominal input frequency[Hz]	47~63	47~63
Output voltage[V]	12	24
Output current[A]	200VAC~305VAC	12.5
	100VAC~180VAC	18.7
Efficiency[%]	91	94
Protection class	IP68	IP68
Immersion depth max	1 m	1 m
Weight[kg]	5	5

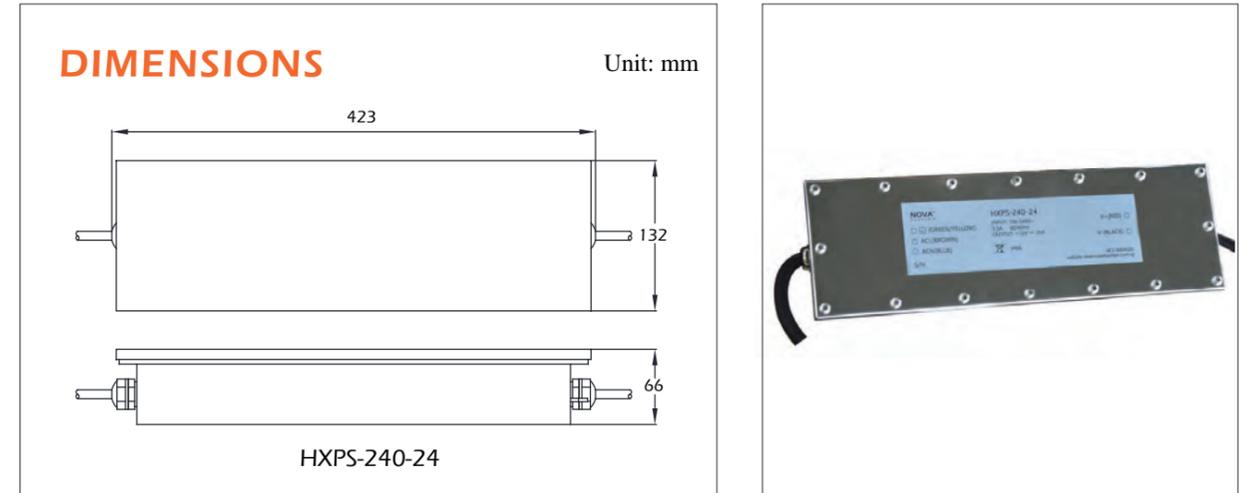
## HXPS-240-24

The underwater power supply HXPS-240 is fully potted power supply.

It is a 240W industrial AC/DC power supply featuring the outstanding capability to operate under a harsh environment with high dust density, humidity, vibration and altitude.

The entire series is housed with a stainless steel 304 case and fully potted with epoxy resin. It guarantees a safe and long-lasting functioning under water.

Even low voltage devices can now be operated with the underwater power supply which leads to enormous reduction of time and material cost at the installation sites.



### CHARACTERISTICS

- ◆ Constant Voltage & Constant current mode output.
- ◆ No load / Standby power consumption < 0.5W
- ◆ IP68 design. Rating for underwater installation.
- ◆ Typical lifetime > 40000 hours.
- ◆ Cable type(Input): 1.5m STW 18AWG/3C
- ◆ Cable type(Output): 1.5m STW 18AWG/2C

Type	HXPS-240-24
Dimensions (L×W×H) [mm]	423×132×66
Nominal input voltage [V/AC]	100-305
Nominal input frequency [Hz]	47~63
Output voltage [V]	24
Output current [A]	10
Efficiency [%]	92
Protection class	IP68
Weight [kg]	5



CROWNE PLAZA

