希帝莱照明科技 LED

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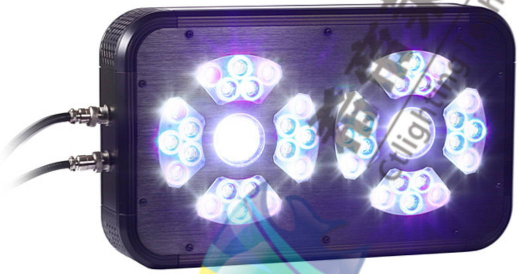
Ctlighting Technology Co.,Ltd

Specification of G3 Smart LED Aquarium Light

Smart Space Station Serial Products

CTL Smart Space Station
Boost Your Aquarium in Full Climate



PATENT No.

ZL2012 30401151.X
ZL2012 20419157.4

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Advantages and Special characteristics of CTL G3 Smart LED Aquarium Light

Combination of super power and high power LEDs:

Combination of 40W super power LED and 3W high power LEDs to have much stronger light penetration and coverage.

Combination of 3 independent channels:

3 channels design, each channel for AquaSpecial, BluePlus and PurplePlus independently.

Programmable auto-dimmed control:

Each channel can be separately and smartly auto-dimmed by the programmable controller.

Energy saving:

Power consumption will be quite less with programmable controller and automatically brightness control.

All-day climate light cycling:

Easy to make the all-day climate light cycling sunset/sunrise/cloudy/sunny and moon light which let the corals enjoy the natural sun light.

Special Lens:

Special lens designed by professional optical company to bring higher light penetration and better light coverage.

NIDEC Fans:

NIDEC fans made in Japan are equipped in this new system, which work with low noise and have longer lifespan than other normal fans.

Serial control for multi lamps:

Multi lamps can be inter-connected and easily controlled by one external controller;
It is useful function when multi lamps are necessary for big and unstandardized size of aquarium tank.

Aluminum housing:

All materials including housing case are made of high quality anodic alumina oxide, they will never be corroded in the salty humidity environment, at the meanwhile, the total weight of products get lower than the iron housing.

Advanced heat dissipation design:

Inner and outer aluminum heat sinks are designed for fast heat dissipation, the temperature of LED junction is less than 80°, much lower than normal design.

Elegant shape:

All the products’ surface is made of brushed anodic alumina oxide, which has elegant appearance.

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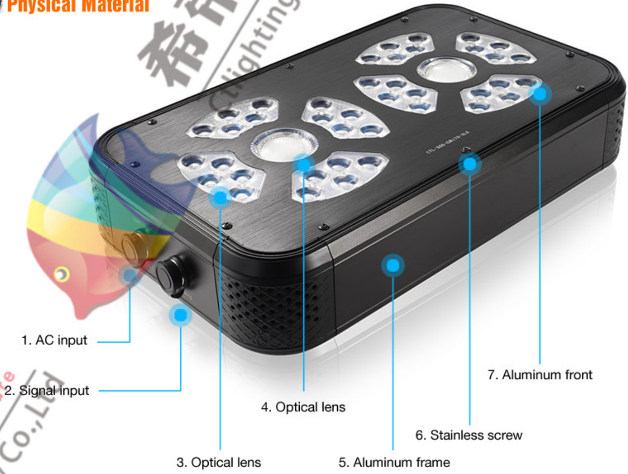
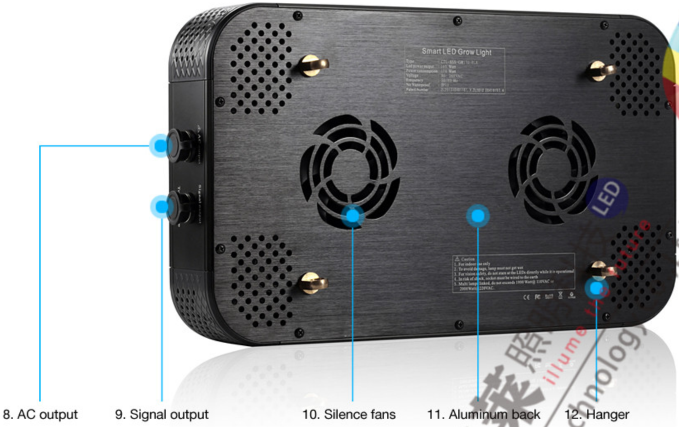
Modularization design:

Modularization design and easy to maintain.

Each module is 85W, the lamps wattage is ranged from 85W (1 module), 170W (2 modules), 255W (3 modules), 340W (4 modules) to 510W (6 modules).

Physical Material





Material list and Advantages

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Part Name	Physical Material	Advantages and Benefit
AC input	Stainless steel, and Copper	Never rust, Isolation test >2000V
Signal input	Stainless steel, and Copper	Never rust
Optical lens	Optical Polycarbonate	Designed by Professional Optical Company, 78 °beam angle
Optical lens	Optical Polycarbonate	Designed by Professional Optical Company, 105°beam angle
Aluminum frame	Aircraft aluminum	Sand blasting and anodic oxidation craft, higher corrosion resistance, elegant metal glossiness
Stainless screw	Stainless steel	Never rust
Aluminum front	Aircraft aluminum	Brushed and anodic oxidation craft, higher corrosion resistance, elegant metal glossiness
AC output	Stainless steel	Never rust , isolation test>2000V, anti-electric shock
Signal output	Stainless steel	Never rust
Silence fans	NIDEC	Famous Japanese Silence fans, longer lifespan, widely used in DELL/HP computer Servers
Aluminum back	Aircraft aluminum	Brushed and anodic oxidation craft, higher corrosion resistance, elegant metal glossiness
Hanger	Copper	higher corrosion resistance

Products Models

CTL-SSS-ARXXX-XXX

- XXX — Color Option
- XXX — Wattage Option
- AR — Aquarium Light
- SSS — Smart Space Station
- CTL — CT Lighting Technology

Color Options

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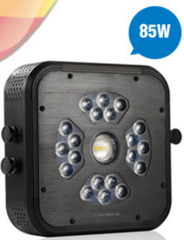
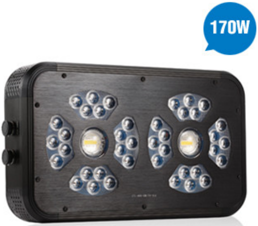
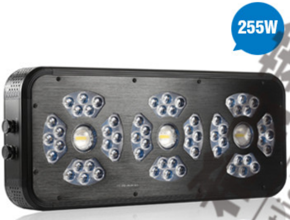
BLK	SLV	BLU	PNK

Wattage Options







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Model Options

CTL-SSS-AR085-BLK	CTL-SSS-AR085-SLV	CTL-SSS-AR085-BLU	CTL-SSS-AR085-PNK
CTL-SSS-AR170-BLK	CTL-SSS-AR170-SLV	CTL-SSS-AR170-BLU	CTL-SSS-AR170-PNK
CTL-SSS-AR255-BLK	CTL-SSS-AR255-SLV	CTL-SSS-AR255-BLU	CTL-SSS-AR255-PNK
CTL-SSS-AR340-BLK	CTL-SSS-AR340-SLV	CTL-SSS-AR340-BLU	CTL-SSS-AR340-PNK
CTL-SSS-AR510-BLK	CTL-SSS-AR510-SLV	CTL-SSS-AR510-BLU	CTL-SSS-AR510-PNK

Size and Weight

Products and Inner Package

Models	Products Size	Products Weight	Package Size	Gross Weight
CTL-SSS-AR085-XXX	220*220*70mm	1.68 Kg	351*256*106mm	2.44 Kg
CTL-SSS-AR170-XXX	370*220*70mm	2.98 Kg	501*256*106mm	3.78g Kg
CTL-SSS-AR255-XXX	530*220*70mm	4.3 Kg	661*256*106mm	5.2 Kg
CTL-SSS-AR340-XXX	370*370*70mm	5.26 Kg	501*376*106mm	6.28 Kg
CTL-SSS-AR510-XXX	530*370*70mm	7.24 Kg	661*406*106mm	8.76 Kg

Products and Carton

Models	Carton Size	Carton Weight	Pcs/Carton
CTL-SSS-AR085-XXX	363*268*436mm	10.36 Kg	4
CTL-SSS-AR170-XXX	513*268*436mm	15.95 Kg	4
CTL-SSS-AR255-XXX	673*268*436mm	22.2 Kg	4
CTL-SSS-AR340-XXX	513*388*224mm	13.5 Kg	2
CTL-SSS-AR510-XXX	673*418*224mm	18.5 Kg	2

LED Channels Distribution

AquaSpecial Channel Power and Spectrum

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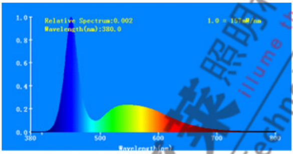
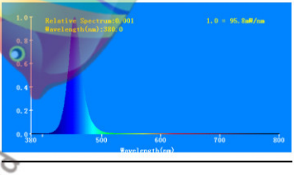
CHN	Power±5%	Spectrum	Application
AquaSpecial	0 – 45.5W	410 – 705nm	Day Light



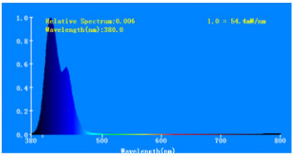
BluePlus Channel Power and Spectrum

CHN	Power±5%	Spectrum	Application
BluePlus	0 – 13W	415 - 505nm	Moon Light



PurplePlus Channel Power and Spectrum

CHN	Power±5%	Spectrum	Application
PurplePlus	0 - 13W	380 – 470nm	fluorescent color



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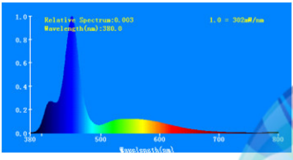
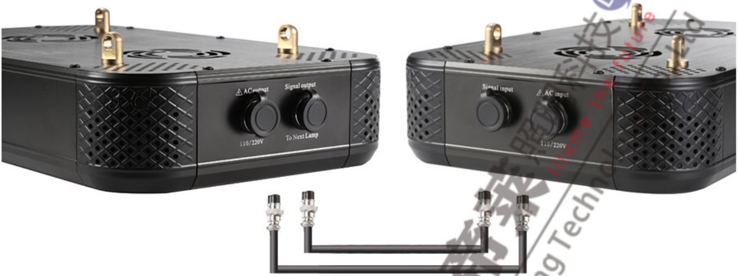
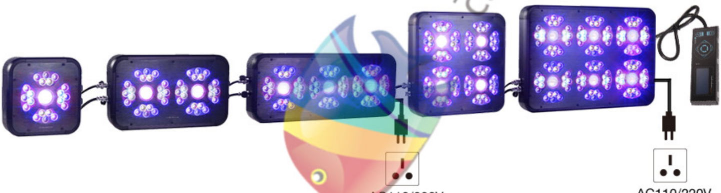
- Aquaspecial+Blueplus+PurplePlus total Power and Spectrum

CHN	Power±5%	Spectrum	Application
All	0-71.5W	380 – 705nm	Balance growing



Multi lamps interconnection





AC110/220V

AC110/220V

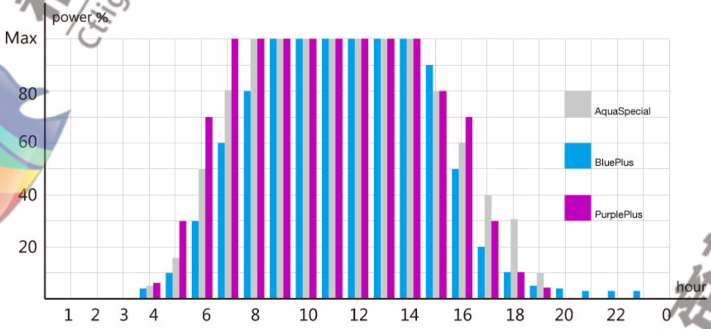
Note:

- Maximum current for Power cords is less than 15A, maximum wattage by one power cords should not exceeds 1000W@110VAC or 2000W@220VAC;
- One Smart Controller controls maximum 10 hops, refer to the hops table below;
- The distance between lamps or distance between Controller and Lamp should not exceed 30 meters for having reliable signal transferring.
- Hops and wattage table

CTL-SSS-AR085-XXX	1 Hop	85W
CTL-SSS-AR170-XXX	1 Hop	170W
CTL-SSS-AR255-XXX	1 Hop	255W
CTL-SSS-AR340-XXX	1 Hop	340W
CTL-SSS-AR510-XXX	2 Hops	510W

Typical All-day Climate Programming

Light Cycling Setting



- From 21pm-4am moon light, 4am-8am sunrise, 8am-14pm sunny, 15pm-19pm sunset.
- Users can set their own light climate cycling by smart controller.

Parameters of 85W Modules

Item	Parameter	Item	Parameter
AC Voltage	86 - 265VAC	temp arise LED-air	< 40℃
Power Consumption	85W±5%	temp arise Heat sink-air	< 20℃
Efficiency	>85%	Life span	>5 years
Standby consumption	<2.5W	Working Temp	<35℃
Power Factor	>92%	Working Humidity	>85%
harmonic wave	<10%	Warranty	3 years

Accessories of Products

希帝莱照明 Ctlighting Technology

Smart Controller

Wireless Controller

AC transfer cable

Power Cords

Signal transfer Cable

Hanging Kit

Contact

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