



15-06 Morlot Avenue, Fair Lawn, NJ 07410 USA Tel: (201) 796-2690 Fax: (201) 796-8818

info@articulight.com

articulight@aol.com

www.articulight.com

## LED SERIES

### LED AQUA® SERIES

#### Underwater LED RGB Color Changer



Dive into the water with the LED AQUA fixtures that bring beautiful color and color changing lighting to any type of underwater locations.

The LED AQUA fixtures are a solution for outdoor and underwater installations. Because of the advance LED technology, the LED AQUA does not require filters or mechanical parts. There is no danger of overheating, the fixtures do not need servicing and last for 100,000 hours. Applications include (all outdoors/indoors use)- but not limited to- gardens, parks, fountains, aquariums, swimming pools, and ponds.

LED AQUA is a high power water submersible LED lighting fixture, which is an ideal fixture for both indoor and outdoor applications requiring full color mixing capabilities, such as fountain, pool, theme park, exhibition, commercial and architectural illuminations. For best heat dissipation, the LED AQUA is recommended to be used underwater. LED AQUA has a protection rating exceeding IP68 <http://www.articulight.com/acc/IPRatings.html> , which is suitable for submersion up to 2 meter underwater. A proprietary triple water proofing technology is used, making water intrusion impossible.



The beam angle of LED AQUA is 25° but other beam angles are also available. The fixture can be controlled by any DMX controller. Each unit is individually addressable and requires 3 DMX channels corresponding to red, green, and blue respectively. Full color mixing is achieved by varying intensity of each primary color. Up to 16.7 million colors can be produced.

LED AQUA uses the highest quality and high brightness LEDs as light source with typical LED life up to 100,000 hours. Each unit consists of 360 LEDs (120 red, 120 green, 120 blue). The LED AQUA circuitry is engineered to optimize both led life and performance.



A proprietary power and data distribution system is used to minimize wiring. The whole system includes a DMX controller, a switching power supply, a submersible junction box, and LED AQUA fixtures. The junction box dramatically reduces cable runs and provides power and data distribution.

LED AQUA has a stainless steel / cast aluminum housing with adjustable yoke and base. The housing is designed to work in water treated with bromine and chlorine.

LED AQUA is available in three versions for different customer's budget:

A. DELUXE PROFESSIONAL – LA-DIA220-12V-PI-A stainless steel casting / ultra bright LED provided with 10 meter cable.

B. PROFESSIONAL – LA-DIA220-12V-PI-B aluminum casting / ultra bright LED provided with 10 meter cable.

C. CONVENTIONAL – LA-DIA220-12V-PI-C aluminum casing / super bright LED provided with 10 meter cable .

**Specifications:**

Color Range:	16.7 million colors at 24 bit RGB additive color mixing
Light Source:	360 high-powered LED
Beam Angle:	25° standard: 10, 45, 60 and 90 degrees are also available with higher lead time
Signal transferring format:	standard DMX protocol (RS485 terminal)
Control system:	"DMX console + power switch + distributor" or "SRC-AI-100 Address Writer + power switch + distributor.
DMX address:	Generated by SRC-AI-100 Address Writer.
Housing:	stainless steel or aluminum (see specifications of various models)
Connector:	3-pin signal connector
Dimensions:	L255xW180xH245.4mm
Weight:	9 kgs.

Electrical Specifications:

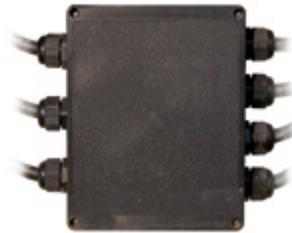
Operating Voltage:	12V DC
Power Consumption:	25W

Environmental Specifications:

Operating Temperature:	-20°C - 55°C
Protection Rating:	IP68
Submersion Depth:	400mm – 2000mm depending on model
Sustainable Pressure:	0.0533T/mm

Color Effects:

Fixed Color:	single static color display
Color Wash:	color change
Cross Change:	two color cycles
Random Change:	colors change in random order
Fixed Color Strobe:	a rapid strong flash of light of a single color
Variable Color Strobe:	a sequence of color appears in a series of strong flashes of light



Assembling of the junction box



Wiring of the power supply case

LW-DIA-JP	LED AQUA COMBO OF SWITCH POWER SUPPLY CASE PLUS DISTRIBUTOR/JUNCTION BOX; RUNS MAXIMUM 6 LED AQUA 37x30x12cm
-----------	--

	<p>Weight: 10 Kgs</p> <p>In order to run your LED AQUA you need one set of PSU &amp; Distributor for each 6 pieces LED AQUA. The PSU contains the power supply and gives the necessary power to all the LED AQUA. Moreover the PSU contains the DMX input and output to control your LED AQUA. The PSU has a protection-degree of IP-44 and can be mounted indoors as well outdoors.</p>
LW-UW-DIA220-12V-PROOVE-B	<p>LED AQUA SWITCH POWER SUPPLY CASE. CONTROLS 24 LED AQUA</p> <p>L530MM X W480MM X H190MM,</p>
LW-UW-DIA220-12V-PROOVE	<p>LED AQUA DISTRIBUTOR WITH ONE POWER SUPPLY</p> <p>L180MM X W145MM X H70MM</p> <p>1 pc input cable (15M) + 6 pcs output cables (10M/pc)</p>
LW-UW-DIA220-12V-PROOVE-C	<p>LED AQUA SWITCH POWER SUPPLY CASE. CONTROLS 6 LED AQUA</p> <p>L300MM X W245MM X H95MM</p> <p>1 pc input power cord (1.2M) + 1 pc output cable(15M)+ 2 pc signal cables(1.2M/pc)</p>
LW-UW-DIA220-12V-PROOVE-C	<p>LED AQUA SWITCH POWER SUPPLY CASE. CONTROLS 6 LED AQUA</p> <p>L300MM X W245MM X H95MM</p> <p>1 pc input power cord (1.2M) + 1 pc output cable(15M)+ 2 pc signal cables(1.2M/pc)</p>

DUE TO CONTINUOUS IMPROVEMENTS, SPECIFICATIONS MAY CHANGE WITHOUT PRIOR NOTICE.