The SV19 is our brightest DC powered thru hull light. Incorporating the latest in high density LED COB chip technology and silicone optics, produces an amazing underwater lighting effect suitable for small to mid-sized boats. The robust aluminum bronze housing and borosilicate glass lens will ensure the safety of your boat and provide many years of satisfying use. Enjoy any of the four available colors with a simple press of a switch.

**SV19 RGBW LED GEN II technical specifications**

<table>
<thead>
<tr>
<th>Application for:</th>
<th>GRP/fiberglass/wood hulls</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lamp:</td>
<td>High density RGBW LED array</td>
</tr>
<tr>
<td>Life length:</td>
<td>40,000 hours plus</td>
</tr>
<tr>
<td>Glass lens:</td>
<td>Borosilicate glass</td>
</tr>
<tr>
<td>Thickness:</td>
<td>9.5mm / 0.38” Thick</td>
</tr>
<tr>
<td>Diameter:</td>
<td>41mm / 1.61”</td>
</tr>
<tr>
<td>Power supply:</td>
<td>12VDC 2.42A max</td>
</tr>
<tr>
<td></td>
<td>24VDC 1.22A max</td>
</tr>
<tr>
<td>Casing material:</td>
<td>Marine Bronze / Marine Aluminum</td>
</tr>
<tr>
<td>Dimensions:</td>
<td>Diameter: 110mm (4.3”)</td>
</tr>
<tr>
<td></td>
<td>Body length: 222mm (8.7”)</td>
</tr>
</tbody>
</table>

Angles available: Flush

Weight: 3.08 kg / 6.8 lbs

Code: SV19 RGBW LED GEN II

Total shipping weight: 3.4 kg / 7.5 lbs

Installation: Recommended at least 6” (152mm) below the waterline between 3 – 6 feet (1-2 meters apart) (80mm)

Colors: Red, green, blue & white color LED switching

All information is subject to change without prior notice, please confirm details prior to ordering.
**Introduction:**

Congratulations on the purchase of your new thru-hull LED underwater light. Underwater Lights® USA, LLC takes pride in providing well designed, high quality and thoroughly tested lights that allow you to "enhance your boating experience". These lights can be installed on your vessel for aesthetics, to attract fish and/or for security and safety.

**General Operating Information:**

The latest commercial grade Light Emitting Diode (LED) technology coupled with silicone optics used in this light will provide robust and reliable operation under normal operating conditions when used with the matching Underwater Lights® USA, LLC driver.

The SV19 LED is equipped with thermally protected circuitry and can be operated above or below the waterline. Optimum performance and longevity will be achieved when operating underwater.

The SV19 LED is intended for use on fiberglass and wood hulled vessels.

Depending upon water clarity conditions, the light beam can reach up to 30 meters (100 feet).

**General Safety Information:**

Never try to install or remove this light while the vessel is in the water.

Electrical wiring harness components should be kept out of potentially explosive gas environments.

The body of the light must be electrically joined to the vessels bonding cathodic protection system. Failure to do so may cause galvanic corrosion.

Always disconnect and lock-out power before working on light.

The light should be visually inspected every six months.

The light, electrical components and electrical cabling should be visually inspected for proper operating condition every six months.

Marine growth should be removed from the glass using a soft brush to allow both heat and illumination to exit the light.

For boats that are kept in-water use SeaClear antifouling to deter marine growth.

**Technical Specifications:**

Light source = Instant-on LED array in Red, Green, Blue and White color switching - 40,000+ hours life - Thermal limit switch and short circuit protection included

Glass = Borosilicate glass - 9.5mm (0.38") thick - 41mm (1.61") diameter net aperture

Construction = Marine bronze - Black anodized marine aluminum alloy - Black delrin

Light dimensions = 110mm (4.3") diameter x 222mm (8.7") long - 3,098 grams (6.8 pounds)

LED driver dimensions = 122mm (4.8") long x 60mm (2.4") wide x 18mm (0.7") tall - 90 grams (0.2 pounds)

Power supply = 12 VDC 2.42A max and 24 VDC 1.22 A max - Operating temperature from -30°C (-22°F) to 50°C (122°F)

**Troubleshooting:**

Please contact our technical support staff in Florida at 1-954-760-4447, Monday to Friday from 8:00 am to 5:00 pm EST.

**Warranty:**

Underwater Lights® USA, LLC warrants this light to be free from defects in workmanship and materials for a period of two years from the date of original purchase. Further, misuse, abuse, improper installation, neglect, improper shipping, damage caused by disasters such as fire, flood and lightning, unauthorized repair or modifications will void said warranty. Should your light prove defective during the warranty period, promptly contact Underwater Lights® USA, LLC for an RMA number and then return the light freight prepaid with the RMA number clearly marked on the outside of the shipping container.
SV19 LED GEN II
Underwater Light

Installation:

This light should be installed at least 152mm (6") below the water line by qualified/approved personnel using proper tools and materials. The minimum hull thickness is 8mm (0.31") and maximum (for sufficient heat dissipation) is 73mm (2.87") with an access area of at least 140mm (5.5") left behind the light for LED array servicing and general ventilation.

After selecting a flat surface, cut a 80mm (3-1/4”) diameter hole through the vessel hull in the desired location. Caution! Check that no electrical wiring, fuel lines, oil lines, water lines etc., pass near or through the intended hole location.

Unscrew and remove Projector Lid (5) with attached parts (6), (4), (7), etc., from the light. Carefully coat Front Flange (2), Main Body (1) and inner surface of above cut hole with 3M 5200 Marine Adhesive or equivalent. Caution! Avoid placing adhesive on Main Body (1) threads. Note: Exposed inner hole surface must be properly sealed before light installation to prevent potential water intrusion into the hull proper.

Holding Front Flange (2), push light through the above hole, slide Compression Ring (8) over Main Body (2) and tighten Locking Ring (9) hand tight. Note: Ensure that the tips of all three Fasteners (14) are NOT touching the Compression ring (8). After the 3M 5200 Marine Adhesive is fully cured, evenly tighten Fasteners (14) to 7 Nm (5 ft/bs) using a 5mm allen wrench.

Carefully insert Projector Mount (4) with attached parts (5), (6), (7), etc., in Main Body (1) and hand tighten Projector Lid (5). Upon completing light installation, coat Front Flange (2) face with antifouling paint (highly recommended), tighten Set Screw (25) to secure Locking Ring (9) and connect a wire lead from Fastener (24) to the vessels grounding and cathodic protection system.

Securely mount LED Driver (26) as high as possible away from the light using one fastener on each mounting flange. Connect loose LED driver “RED IN” wire lead to a switched and fused power source utilizing supplied fuse, connect loose LED driver “BLACK IN” wire lead to a good ground. Plug LED driver (28) output connector to LED light input connector (27).

Caution! Directly connecting power source to light without using the LED driver will permanently damage the light.

Serviceable Parts:

The SV19 LED Underwater Light is field serviceable and most of the parts are replaceable. However, numbers (3), (10), (11), and (12) are not field serviceable on this light. Please contact our technical support staff to discuss your individual needs.
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