

SV16 Light

100W/12VDC
85W/12VDC
70W/24VDC
55W/12VDC



Introduction:

Congratulations on the purchase of your new thru hull 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 in your vessel for aesthetics, to attract fish, for security and safety.

General Operating Information:

The commercial grade Halogen lamp used in this light will provide robust and reliable operation under normal operating conditions.

The light can be operated for a brief period of time when the vessel is out of the water, but, it is crucial that the vessel is in the water to ensure proper lamp cooling, however, the light can be operated while the vessel is underway.

Depending upon water clarity conditions, the light beam can reach up to 12 meters (40 feet).

General Safety Information:

This light is intended for use on fiberglass and wood hulled vessels.

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

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

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

The light should be visually inspected every six months.

The light electrical cabling and connections 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.

Technical Specifications:

Lamp = 100 Watt - Halogen - 2,500 Lumens - 3000 Kelvin color temperature - Approximately 2500 hours life
OR

Lamp = 85 Watt - Halogen - 1,750 Lumens - 3000 Kelvin color temperature - Approximately 2500 hours life
OR

Lamp = 70 Watt - Halogen - 1,500 Lumens - 3000 Kelvin color temperature - Approximately 2500 hours life
OR

Lamp = 55 Watt - Halogen - 1,200 Lumens - 3000 Kelvin color temperature - Approximately 2500 hours life

Glass = Borosilicate glass - 9.53mm (0.38”) thick - 41mm (1.61”) diameter net aperture

Dimensions = 80mm (3.15”) diameter x 152mm (5.98”) long - 1185 grams (2.6 pounds)

Construction = Marine bronze - Black delrin

Power supply = 12VDC nominal (14VDC maximum) - 8 Amps running current - Minimum operating temperature -30°C (-22°F)
OR

Power supply = 12VDC nominal (14VDC maximum) - 7 Amps running current - Minimum operating temperature -30°C (-22°F)
OR

Power supply = 24VDC nominal (28VDC maximum) - 3 Amps running current - Minimum operating temperature -30°C (-22°F)
OR

Power supply = 12VDC nominal (14VDC maximum) - 4.5 Amps running current - Minimum operating temperature -30°C (-22°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 (except lamps). 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.

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Installation:

This light should be installed at least 125-150mm (5-6") below the water line by qualified/approved personnel using proper tools and materials. The minimum hull thickness is 10mm (0.4") and maximum is 70mm (2.75") with an access area of at least 100mm (3.9") left behind the light for lamp servicing and general ventilation.

After selecting a flat surface, cut a 60mm (2-3/8") 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.

Remove numbers (7), (6) + (5) from the light. Carefully coat the Flanged Main Body (1) and inner surface of above cut hole with 3M 5200 Marine Adhesive or equivalent. Caution! Avoid placing adhesive on flanged main body threads. Note: Exposed inner hole surface must be properly sealed before light installation to prevent potential water intrusion into the hull proper.

Holding the Flanged Main Body (1), push the light through the hole, slide the Compression Ring (5) over the Flanged Main Body (1) and then tighten the Locking Ring (6) hand tight. Note: Ensure that the tips of all three fasteners (15) are NOT touching the Compression ring (5). After the 3M 5200 Marine Adhesive is fully cured, tighten the three fasteners (15) to 7 Nm (5 ft/lbs) using a 3mm allen wrench.

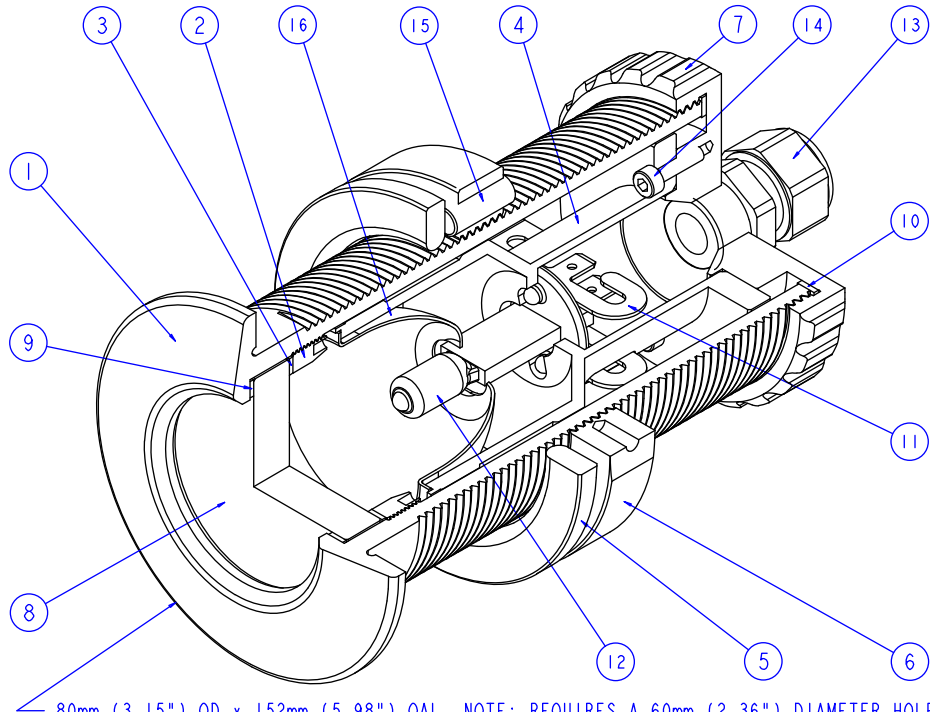
Screw the Projector Lid (7) onto the Flanged Main Body (1) hand tight. Connect the BLUE wire lead to a switched and fused power source and the BROWN wire lead to good ground.

Upon completing light installation, it is highly recommended that the Flanged Main Body (1) face be coated with antifouling paint and a wire lead be connected from the Locking Ring (6) M4 x 0.7 tapped hole to the vessels grounding and cathodic protection system.

Serviceable Parts:

Lamp replacement is done by unscrewing the Projector Lid (7), loosening two screws (14), removing the Reflector Tube (4), disconnecting two wire "push-on" terminals, removing the Lamp Holder (11) and then removing the Lamp (12). Light re-assembly is done by reversing said procedure. Note: BLUE wire "push-on" terminal goes onto the Lamp (12) and BROWN wire "push-on" terminal goes onto the Lamp Holder (11). Caution! Ensure that the new lamp is clean and free of dust, dirt, grease, oil, water and finger prints. Additionally, numbers (3), (8) + (9) are not field serviceable on this light.

BALLOON	DESCRIPTION
1	FLANGED MAIN BODY
2	GLASS RETAINING COLLAR
3	INNER GLASS GASKET
4	REFLECTOR TUBE
5	COMPRESSION RING
6	LOCKING RING
7	PROJECTOR LID
8	GLASS
9	OUTER GLASS GASKET
10	PROJECTOR LID GASKET
11	LAMP HOLDER
12	LAMP, 100 WATT, 12 VDC LAMP, 85 WATT, 12 VDC LAMP, 70 WATT, 24 VDC LAMP, 55 WATT, 12 VDC
13	CABLE STRAIN RELIEF
14	M3 x 0.5 x 12LG SST SHCS
15	M6 x 1.0 x 16LG SST SET SCREW
16	REFLECTOR



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