

SV10-250W



The Sea Vision SV 10 model offers the largest aperture of all the fiberglass models giving maximum light output from the 250 watt HID metal halide lamp. It can be installed in the transom or the hull and is suitable for boats with 110-230 volt AC power, including sportfish, yachts and cruisers. The vessel must be hauled out for installation although lamp change and any maintenance can be done in the water from within the hull.



SV10 technical specifications

Application for:	GRP/fiberglass/wood hulls
Lamp:	250 watt HID metal halide
Life length:	approx. 3,000 hours plus
Lumens:	17,000
Kelvin colour temp:	8000
Glass lens:	Borosilicate glass
Thickness:	12.7mm / 0.5"
Power supply:	120 VAC 50/60Hz input - running current 2.38 amps 230 VAC 50/60Hz input - running current 1.15 amps
Casing material:	Marine Bronze / Marine Aluminum
Dimensions:	130 mm (5.12") x 203 mm (8.0")
Angles available:	Flush
Weight:	3.5 Kgs / 8 lbs
Code:	SV10/250W

Ballast:	SV34 100-277 VAC 250W 60/50 Hz
Weight:	6.5 Kg / 14 lbs
Cable:	Only required between the light and ballast Maximum distance from 15 feet / 4.5 meters to 33 feet / 10 meters (depending on ballast model) High temperature silicone, 18/3 shielded copper wire. Normal ships cable can be used from the ballast to the power supply.

Total shipping weight: 9.52 Kg/21 lbs

Installation: Recommended at minimum 10" (250mm) below light load waterline between 3-8 feet (1-2.5 meters) apart.
(100mm) 4" cut out hole

This is a guideline only, for specific requirements please contact us.

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



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SV10 Light

120VAC/250W
240VAC/250W



Introduction:

Congratulations on the purchase of your new thru hull light (**Patent Pending**). 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 250W, HID, gas discharge lamp used in this light is not an instant re-strike lamp. This means that it must be allowed to cool for approximately 10 to 20 minutes after being shut off before being restarted. HID lamps generally require approximately 2 minutes to reach full brightness and should be left on for a minimum of 10 minutes. Failure to do so may cause the lamp to flicker when it is turned on the next time.

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 30 meters (100 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.

High temperature silicone electrical cable must be used between the light and the ballast, standard ships cable can be used from the A/C power source to the ballast.

The body of the light must be electrically joined to the vessels grounding and cathodic protection system. Failure to do so may cause 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 ballast box 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 = 250 Watt - Metal halide - 17,000 Lumens - 8000 Kelvin color temperature - Approximately 3,000 hours life

Glass = Borosilicate Glass - 12.7mm (0.5") thick - 58mm (2.3") diameter net aperture

Dimensions = 130mm (5.12") diameter x 203mm (8.0") long - 3.5 kilograms (8 pounds)

Construction = Marine bronze - Black anodized marine aluminum alloy

Power supply = 120VAC 50/60Hz input, 2.38 Amps - Minimum operating temperature -30°C (-22°F)

OR

Power supply = 240VAC 50/60Hz input, 1.15 Amps - 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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SV10 Light

120VAC/250W
240VAC/250W



Installation:

To be installed by qualified personnel only at minimum 250-300mm (10-12") below the light load water line using proper tools and materials. The minimum hull thickness is 10mm (0.4") and maximum (for sufficient light cooling) is 50mm (2.0") with an access area of at least 75mm (3") left behind the light for lamp servicing and general ventilation.

After selecting a flat surface, cut a 100mm (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.

For light disassembly remove six nuts (24), remove Projector Lid (9), carefully disconnect ground wire, then remove Connecting Ring (8), Locking Ring (7) and Compression Ring (6) from Main Body (1). **Warning! Do not rotate Connecting Ring (8) while attached to Projector Lid (9) or ground wire damage will occur!** Carefully coat Main Body (1), Front Flange (2) and inner surface of hull hole with 3M 5200 Marine Adhesive or equivalent. Caution! Avoid placing excess 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 Main Body (1) through hull hole, slide Compression Ring (6) over Main Body (1) and then tighten Locking Ring (7) hand tight. Note: Ensure that the tips of all six fasteners (21) are NOT touching Compression Ring (6). After the 3M 5200 Marine Adhesive is fully cured, tighten six fasteners (21) to 9 Nm (7 ft/lbs) using a 5mm allen wrench.

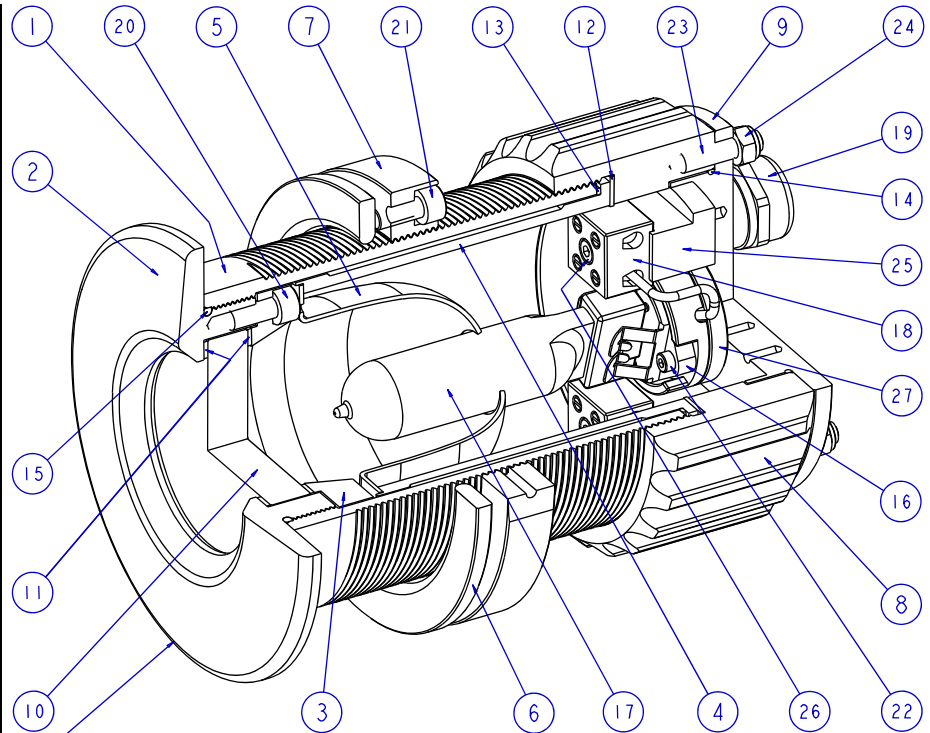
Upon making proper electrical connections (see ballast manual), reverse aforementioned light disassembly procedure and tighten six nuts (24) in a criss-cross pattern to 2 Nm (1.5 ft/lbs). Note: Apply anti-seize compound to Connecting Ring (8) internal threads. Also, it is highly recommended that Front Flange (2) be coated with antifouling paint and a wire lead be connected from Locking Ring (7) tapped hole (M4 x 0.7 thread) to the vessels grounding and cathodic protection system.

Serviceable Parts:

For Lamp replacement remove six nuts (24), remove Projector Lid (9), carefully pull Lamp (17) out of Lamp Socket (16), push new Lamp (17) into Lamp Socket (16), install Projector Lid (9) and tighten six nuts (24) in a criss-cross pattern to 2 Nm (1.5 ft/lbs). Caution! Ensure that the new lamp is clean and free of dust, dirt, grease, oil, water and finger prints.

For glass replacement remove six nuts (24), remove Projector Lid (9), carefully disconnect ground wire, remove Connecting Ring (8), remove Reflector Tube (4), remove Glass Retaining Ring (3), remove six fasteners (20) and remove Glass Gasket (11). Upon thoroughly cleaning all surfaces, reverse said procedure to assemble and tighten six nuts (24) in a criss-cross pattern to 2 Nm (1.5 ft/lbs). Note: Six fasteners (20) are tightened in a criss-cross pattern to 9 Nm (7 ft/lbs) using a 5mm allen wrench.

MODEL A13A11A12-16A18A, 120VAC OR 240VAC, 250W		
BALLOON	PART	DESCRIPTION
1	10001	MAIN BODY
2	10002	FRONT FLANGE
3	10003	GLASS RETAINING RING
4	10004	REFLECTOR TUBE
5	10005	REFLECTOR
6	10006	COMPRESSION RING
7	10007	LOCKING RING
8	10008	CONNECTING RING
9	10009	PROJECTOR LID
10	10010	GLASS
11	10011	GLASS GASKET
12	10012	CONNECTING RING GASKET
13	10013	REFLECTOR TUBE O-RING
14	10014	PROJECTOR LID O-RING
15	10015	FRONT FLANGE O-RING
16	10026	LAMP SOCKET
17	10035	LAMP, 250 WATT
18	10018	PORCELAIN TERMINAL BLOCK
19	10019	CABLE STRAIN RELIEF
20	10020	M6 x 1.0 x 14LG SST SHCS
21	10020	M6 x 1.0 x 14LG SST SHCS
22	10022	M3 x 0.5 x 20LG SST SHCS
23	10024	M6 x 1.0 x 25LG SST SET SCREW
24	10025	M6 X 1.0 SST HEX LOCKNUT
25	10028	STAND-OFF
26	10023	M4 x 0.7 x 35LG SST SHCS
27	10043	LAMP SOCKET SPACER



130mm (5.12") OD x 203mm (8.0") OAL. NOTE: REQUIRES A 100mm (4.0") DIAMETER HOLE

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