SV10-150W

BY UNDERWATER LIGHTS USA

The Sea Vision SV 10 model offers the largest aperture of all the fiberglass models giving maximum light output from the 150 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.

Patent Pending

SV10 technical specifications

Application for:	GRP/fiberglass/wood hulls
Lamp:	150 watt HID metal halide
Life length:	approx. 3,000 hours plus
Lumens:	12,000
Kelvin colour temp:	7500
Glass lens:	Borosilicate glass
Thickness:	12.7mm / 0.5”
Diameter:	58mm / 2.3”
Power supply:	120 VAC 50/60Hz input - running current 1.33 amps 230 VAC 50/60Hz input - running current 0.59 amps
Casing material:	Marine Bronze / Marine Aluminum
Dimensions:	Flange diameter: 130 mm (5.12”) Body length: 203 mm (8.0”)
Angles available:	Flush
Weight:	3.5 Kgs /8 lbs
Code:	SV10

Ballast:	SV18 120 VAC 50/60Hz 230 VAC 50/60 Hz
Weight:	1.9 Kg / 5 lbs
Cable:	Only required between the light and ballast (maximum distance 50 feet / 15 meters). High temperature silicone, 18/3 shielded copper wire. Normal ships cable can be used from the ballast to the power supply.
Total shipping weight:	5.3 Kg/14 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.

Note: Please specify voltage when ordering.
All information is subject to change without prior notice, please confirm details prior to ordering.

CE ABS Lloyd's Register

USCG Ignition Protected

UNDERWATER LIGHTS® USA, LLC

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SV10 Light

120VAC/150W
240VAC/150W

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 150W, 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.

The main body is designed and tested to act as a cofferdam for added security.

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 = 150 Watt - Metal halide - 12,000 Lumens - 7500 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, 1.33 Amps - Minimum operating temperature -30°C (-22°F)

OR

Power supply = 240VAC 50/60Hz input, 0.59 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/150W
240VAC/150W

BY UNDERWATER LIGHTS USA

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 90mm (3.5") 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, remove Connecting Ring (8), remove Locking Ring (7) and remove 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.

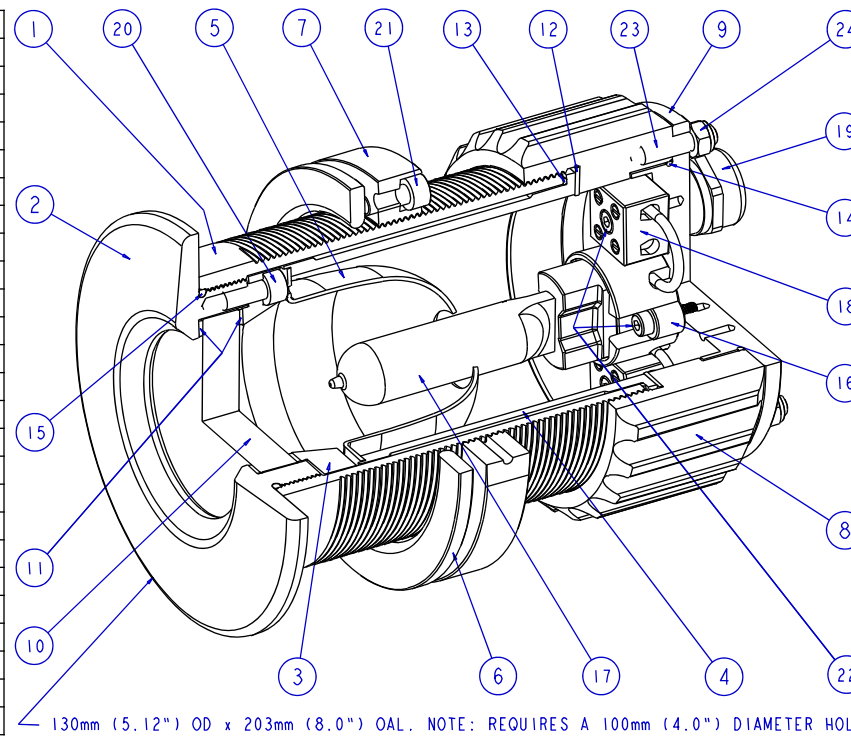
Upon making proper electrical connections (see ballast manual), reverse aforementioned light disassembly procedure and tighten six nuts (24) in a criss-cross pattern to 2 Nm (1.5 ft/lbs). Note: Apply anti-seize compound to Connecting Ring (8) internal threads. Upon completing light installation, it is highly recommended that Front Flange (2) be coated with antifouling paint. Also, hand tighten 4mm set screw located in Locking Ring (7), then connect wire lead from 4mm screw provided on Locking Ring (7) 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.

MODELS A13A11A13-10A16B, 120VAC/150W & A13A11A13-11A16B, 240VAC/150W		
BALLOON	**PART**	**DESCRIPTION**
1	10001	MAIN BODY / COFFERDAM
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	10016	LAMP SOCKET
17	10034	LAMP, 150 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	10032	M4 x 0.7 x 16LG SST SHCS
23	10024	M6 x 1.0 x 25LG SST SET SCREW
24	10025	M6 x 1.0 SST HEX LOCKNUT



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SV18 Ballast Box

120VAC/150W
240VAC/150W

Introduction:

Congratulations on the purchase of your new thru hull light ballast box. 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.

Features Include:

Latest microprocessor control technology to guarantee high levels of performance.

Flicker free lighting and enhanced lamp life is provided by a square wave lamp current waveform.

Constant power feature ensures excellent color maintenance throughout the extended life of the lamp.

Transient, short circuit, thermal, open circuit, no lamp, hot lamp shutdown, retry and ignition failure protections.

Electrical wiring terminal block with VAC input fuse protection.

General Safety Information:

This ballast box is specifically designed for use with matching Underwater Lights USA, LLC brand lights only.

Always ensure that VAC power is disconnected and locked out before performing ballast box installation and/or service.

The ballast box should be opened and visually inspected every six months.

Ballast box electrical cabling should be visually inspected for proper operating condition every six months.

Technical Specifications:

Box Dimensions = 220mm (8.66") long x 120mm (4.72") wide x 91mm (3.58") deep - 1.9 kilograms (4.2 pounds)

Box Construction = Molded gray, glass reinforced polyester with integral rubber (EDPM) gasket, IP66/NEMA 4X rated

OR

Box Dimensions = 221mm (8.70") long x 121mm (4.76") wide x 80mm (3.15") deep - 2.1 kilograms (4.7 pounds)

Box Construction = Gray powder coated diecast aluminum alloy with integral silicone rubber gasket, IP66/NEMA 4X rated

Ballast = 120 VAC, 50/60 Hz, 1.38 Ampere input - 150 Watt output - Minimum operating temperature -30°C (-22°F)

OR

Ballast = 240 VAC, 50/60 Hz, 0.69 Ampere input - 150 Watt output - Minimum operating temperature -30°C (-22°F)

Cable to Ballast Box = Marine grade electrical cable, 14/3 stranded copper wire, with as short a length as possible

Cable from Ballast Box to Light = High temperature silicone cable, 16/3 shielded copper wire, 15 meters (50 feet) max length

Terminal block fuse = Fast blow 10 Amp cylindrical, 6.3mm diameter x 25mm or 32mm long (0.25" diameter x 1.0" or 1.25" long)

Troubleshooting:

Pleased 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 ballast box 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 ballast box prove defective during the warranty period, promptly contact Underwater Lights® USA, LLC for an RMA number and then return the ballast box freight prepaid with the RMA number clearly marked on the outside of the shipping container.

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SV18 Ballast Box

120VAC/150W
240VAC/150W

Installation:

Select a location that affords good access to the ballast box. Preferably the ballast box should be placed in a cool, dry and well ventilated area. Attach the ballast box to a fixed wall or similar secure structure using appropriate M6 fasteners. Note: Whereas, the ballast box can be placed in any orientation, it is recommended that the cable strain relief connectors face down.

Using marine grade 14/3 cable, run a VAC input line into the ballast box and secure by way of one cable strain relief connector.

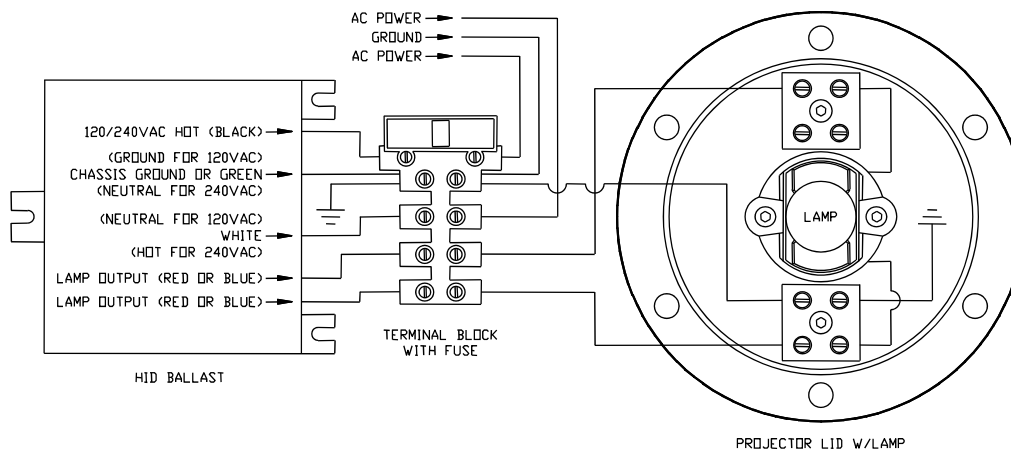
Using a high temperature 18/3 shielded silicone cable, run a line from the ballast box to the underwater light and secure each end by way of a strain relief connector. Caution! Avoid making tight bends and/or passing cable over sharp edges/surfaces.

Connect cable leads at both the ballast box and underwater light as shown in the wiring diagram below.

Serviceable Parts:

Upon opening the ballast box by unscrewing four captive lid fasteners, replacement of the HID ballast and/or terminal block with fuse is accomplished by removal and replacement of three phillips pan head screws and associated wiring. Further, a 10 Amp fuse located in the fused terminal block may be pulled out and replaced as required. Caution! Ensure that VAC power is disconnected and locked out before servicing ballast box.

MODELS 10A16B & 10A19B, 120VAC/150W MODELS 11A16B & 11A19B, 240VAC/150W	
PART	**DESCRIPTION**
18001 18020	ENCLOSURE, PLASTIC ENCLOSURE, ALUMINUM
18002	MOUNTING PLATE
18003	TERMINAL BLOCK MOUNT
18004	CABLE STRAIN RELIEF
18005	BLANKING PLUG
18006	120VAC BALLAST, MODEL 10A16B
18017	120VAC BALLAST, MODEL 10A19B
18007	240VAC BALLAST, MODEL 11A16B
18018	240VAC BALLAST, MODEL 11A19B
18008	FUSED TERMINAL BLOCK
18009	M6 x 1.0 x 8LG SST PPHS
18010	M4 x 0.7 x 8LG SST PPHS
18011	M3.5 x 0.6 x 12LG PPHS
18013	FAST BLOW FUSE
18019	16/3 HIGH TEMP SHIELDED SILICONE ELEC CABLE
18021	8-18 x 6LG THREAD FORMING SST PPHS
18022	GROUND WIRE ASSEMBLY



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