sea vision
BY UNDERWATER LIGHTS USA

This a.c. ballast is for use with any of the SV10 or SV14 models of underwater lights.

SV18 technical specifications

Box Construction:	Gray powder coated diecast aluminum alloy with integral silicone rubber gasket, IP65/NEMA 4X rated.
Dimensions:	Length: 221mm (8.70") Width: 121 mm (4.76") Depth: 80 mm (3.15")
Weight:	1.9Kgs / 4.2 lbs
Power Supply:	120VAC, 50/60Hz Hz. 1.38 ampere input 150 watt output – minimum operating temperature -30˚C (-22˚F) 230VAC, 50/60Hz Hz. 0.69 ampere input 150 watt output – minimum operating temperature -30˚C (-22˚F)
Cable:	From ballast box to light – High temperature silicone cable, 18/3 shielded copper wire, 15 meters (50 feet) max. length. From power supply to ballast – Marine grade electrical cable, 14/3 stranded copper wire with as short a length as possible.

Note: Please specify voltage when ordering.

CE Lloyd's Register

SV10

SV14 aluminum

SV14 steel

UNDERWATER LIGHTS USA, LLC

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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.

SV18 Ballast Box

120VAC/150W
240VAC/150W

by SEA VISION / BY UNDERWATER LIGHTS USA

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

AC POWER
GROUND
AC POWER

120/240VAC HOT (BLACK)
(GROUND FOR 120VAC)
CHASSIS GROUND OR GREEN
(NEUTRAL FOR 240VAC)
(NEUTRAL FOR 120VAC)
WHITE
(HOT FOR 240VAC)
LAMP OUTPUT (RED OR BLUE)
LAMP OUTPUT (RED OR BLUE)

TERMINAL BLOCK WITH FUSE

HID BALLAST

LAMP

PROJECTOR LID W/LAMP