

SV14 LED



The Sea Vision SV14 LED weld in model for aluminum or steel hulls can be installed in the transom or the hull, it utilizes high density LED chip technology which combined with the latest award winning silicone optics produce an industry leading lighting effect. Additionally the silicone optic protects the LED chip from condensation thus ensuring a long life and overcoming one of the major reasons for light failure. The lights can be welded at adjustable angles to suit all hull shapes. The hull shape and positioning will dictate the angle of the light you require, angles available are 0 to 50 degree. The vessel must be hauled out for installation although any maintenance can be done in the water from within the hull. The light body is designed to act as a cofferdam / secondary containment for additional security.



SV14 LED technical specifications

Application for:	Aluminum or Steel hulls
Light source:	High density LED array Available in: White, blue, green, red or RGBW
Life length:	approx. 40,000 hours plus
Lumens:	21,685 in white
Kelvin colour temp:	6500 in white
Glass lens:	Borosilicate glass
Thickness:	12.7mm / 0.5"
Diameter:	58mm / 2.3"
Power supply:	100-277 VAC 50/60 Hz Multivoltage
Blue/green:	1.1 Amps 120V, 0.55 Amps 230V – 100W
White:	1.87 Amps 120V, 0.91 Amps 230V – 150W
RGBW:	0.55 Amps 120V, 0.30 Amps 230V – 264W
Casing material:	Aluminum 5086 or Stainless Steel 316L

Angles available:	Flush
	30 degree
	38 degree
	50 degree

Cable: Only required between the light and driver (maximum distance 16 feet / 5 meters). Marine grade electrical cable 18/2 stranded copper wire. Normal ships cable can be used from the ballast to the power supply.

Code: SV14 LED

Total shipping weight: Approx. 25 – 50 lbs

Installation: Recommended at least 24" (610mm) below the waterline between 3 – 8 feet (1 – 2.5 meters) apart.

*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.*

Ignition Protection tested to ATEX EXD IIA T30



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SV14 LED Light

STEEL/ALUMINUM



Introduction:

Congratulations on the purchase of your new weld-in LED light for **STEEL/ALUMINUM** hulled vessels. 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 and/or for security and safety.

General Information:

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

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).

Safety Information:

This light must be welded into a STEEL/ALUMINUM hulled vessel in accordance with common ship building practices.

Upon proper installation, this light will become part of the vessels grounding and cathodic protection system.

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

Care and Maintenance:

The light should be inspected for moisture every six months by removing the projector lid and inspecting internal components. This can be accomplished while the vessel is in the water.

The lights electrical cabling and driver 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 properly exit the light.

Technical Specifications:

Light source = Instant on high flux density LED array - 21,685 Lumens (Peak Axial Candela 11270) - 6500 Kelvin color temperature in White - Available in Red, Green, Blue, White (RGBW) changing LED array's - 40,000+ hours life

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

Light Common Body Dimensions = 150mm (5.9") diameter x 166mm (6.5") length

Smallest Front Flange Dimensions (STEEL) = 100mm (3.94") diameter x 25mm (0.98") length

Smallest Front Flange Dimensions (ALUMINUM) = 100mm (3.94") diameter x 65mm (2.56") length

Largest Front Flange Dimensions = 140mm (5.51") diameter x 213mm (8.39") length

Construction (STEEL) = 316L Stainless steel - Black anodized 5086 marine aluminum

Construction (ALUMINUM) = Bright dip anodized 5086 marine aluminum - Black anodized 5086 marine aluminum

Power supply = See matching Underwater Lights® USA, LLC driver box

Troubleshooting:

Please contact our Florida technical support staff at 1-954-760-4447 or French technical support staff at +33 (0) 497 21 0296, Monday thru Friday from 8:00 am to 5:00 pm local time.

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.

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SV14 LED Light

STEEL/ALUMINUM



Installation:

This light should be installed at minimum 250-300mm (10-12") below the light load water line with approximately a 20° down angle by qualified/approved personnel using proper tools, welding procedures and materials. An access area of at least 75mm (3") should be left behind the light for servicing and general ventilation.

After selecting a location, cut an appropriate sized hole through the vessel hull. Note: Hole size will be defined by the specific weld-in Front Flange (18) that came with the light. Caution! Check that no electrical wiring, fuel lines, oil lines, water lines etc., pass near or through the intended hole location. Note: In order to allow proper heat dissipation from the installed lights it is important to ensure that any hull insulation/cladding is not in contact with the thru hull or light body. It is recommended that a minimum of 30mm (1.2") of clear space should be surrounding the fixture to allow for adequate cooling.

Place the supplied Front Flange (18) into said hole and following common ship building practices, permanently weld-in place. Note: Leave the factory installed block-off disk and protective cap on the supplied Front Flange (18) until final light assembly.

Final light assembly - Remove Front Flange (18) block-off disk, protective cap and clean all surfaces. Install two Glass Gaskets (5) (one gasket on either side of glass) Glass (4), Glass Retaining Ring (3) and six fasteners (13) tightened in a criss-cross pattern to 9 Nm (7 ft/lbs) using a 5mm allen wrench. Screw Connecting Ring (2) with attached Main Body (1) onto Front Flange (18) and tighten to 40 Nm (30 ft/lbs). Note: Apply anti-seize compound to Connecting Ring (2) threads. Upon making proper electrical connections (see driver box manual), connect Receptacle (16) to plug (17). Note: Upon completing light installation, it is highly recommended that the Front Flange (18) be coated with antifouling paint. **No sealant required on any gasket surfaces.**

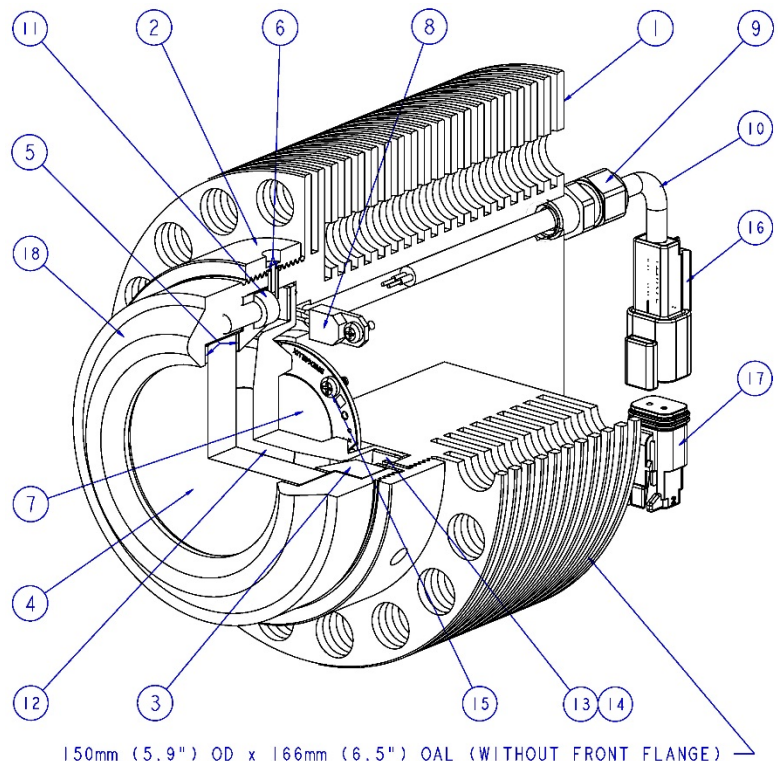
Serviceable Parts:

This light is fully serviceable and all parts are replaceable. Please contact our technical support staff to discuss your individual needs.

For Glass (4) replacement, disconnect Receptacle (16) from Plug (17), remove Connecting Ring (2) with attached Main Body (1), remove six fasteners (13), Glass Retaining Ring (3) and Glass Gaskets (5). Upon thoroughly cleaning all surfaces, reverse said procedure to assemble the new Glass (4) and Glass Gaskets (5). Note: Tighten all six fasteners (13) in a criss-cross pattern to 9 Nm (7 ft/lbs) using a 5mm allen wrench. **Caution! Never attempt to remove/replace Glass (4) while vessel is in the water.**

MODELS B15_12A41-12G32L, 120/230VAC (STEEL) MODELS B15_10A41-12G32L, 120/230VAC (ALUMINUM)		
BALLOON	PART	DESCRIPTION
1	14323	MAIN BODY / COFFERDAM
2	14002	CONNECTING RING
3	14004	GLASS RETAINING RING
4	14007	GLASS
5	14008	GLASS GASKET
6	14009	CONNECTING RING GASKET
7	14310	LED ARRAY*
8	14321	THERMOSWITCH
9	14305	CABLE STRAIN RELIEF
10	14306	ELECTRICAL CABLE*
11	14015	M6 x 1.0 x 14LG SST SHCS
12	14320	SILICONE LENS
13	14319	LENSE HOLDER
14	14322	M7 x 0.7 x 8LG SST PPHS
15	14307	M3 x 0.5 x 5LG SST PPHS
16	14316	RECEPTACLE ASSEMBLY, 2-WAY*
17	14317	PLUG ASSEMBLY, 2-WAY*
18	N/A	CALL TECHNICAL SUPPORT FOR APPROPRIATE FRONT FLANGE

*PLEASE CALL FOR OTHER PRODUCT COMPONENT CONFIGURATIONS



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SV18 RGBW LED Driver Box

120-230VAC



Introduction:

Congratulations on the purchase of your new four color (Red, Green, Blue, White) LED light driver 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 DMX control technology and electronic component construction to guarantee high levels of performance.

Universal VAC input with short circuit, over current, over voltage and over temperature protections.

Electrical wiring terminal blocks and VAC input fused protection.

General Safety Information:

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

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

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

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

Technical Specifications:

Box Dimensions = 260mm (10.2”) long x 160mm (6.3”) wide x 91mm (3.6”) deep - 3.5 kilograms (7.7 pounds)

Box Construction = Gray painted diecast aluminum alloy with polyurethane gasket, IP66/NEMA 4X rated

Driver = 100-277VAC 50/60Hz - RGBW: 0.55 Amps 120V, 0.30 Amps 230V - 264W - Minimum operating temperature -30°C (-22°F)

Power Cable to Driver Box = Marine grade electrical cable, 16/3 stranded copper wire, with as short a length as possible

Cable from DMX Control to Driver Box = Marine grade electrical cable, shielded 18/3 stranded copper wire is recommended

Driver Box Cable to LED Light = Marine grade electrical cable, 18/5 stranded copper wire, 5 meters (16 feet) maximum 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:

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

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SV18 RGBW LED Driver Box

120-230VAC



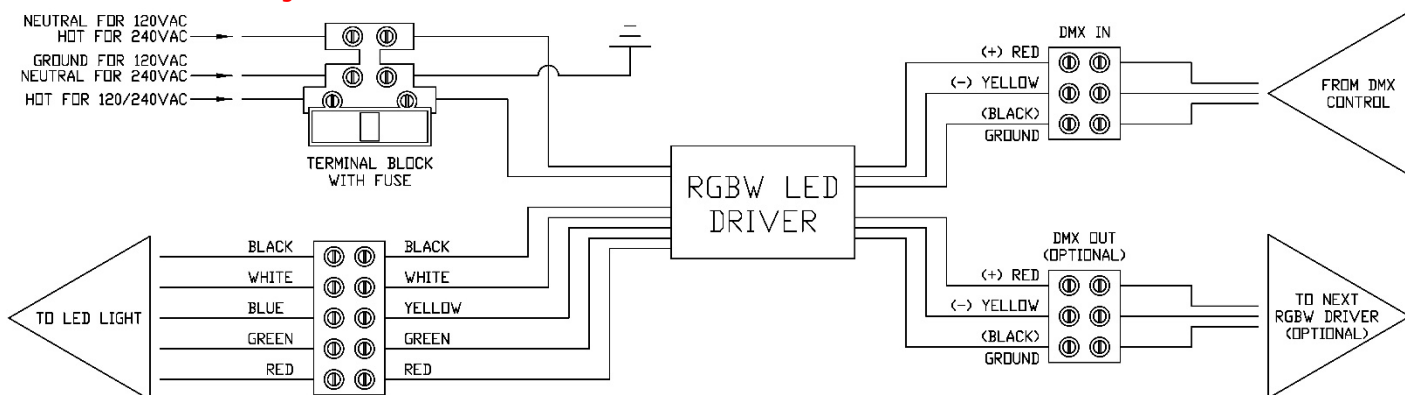
Installation:

The driver box should be mounted in a cool, dry, well ventilated and easily accessible location. Attach the driver box to a fixed bulkhead or similar secure structure using appropriate M6 fasteners with adequate space between driver boxes for proper cooling. Note: Whereas the driver box can be placed in any orientation, it is recommended that the cable strain reliefs face down.

Using marine grade cable, run a VAC input line into the driver box and secure using one large cable strain relief. Run cable from supplied RGBW LED Light and shielded DMX cable/s to the driver box and secure by way of remaining cable strain reliefs. Note: Since the DMX Out cable is an optional feature, it may not exist. Caution! Avoid making tight bends and/or passing cables over sharp edges/surfaces. Connect cable wire leads inside the driver box per wiring diagram below.

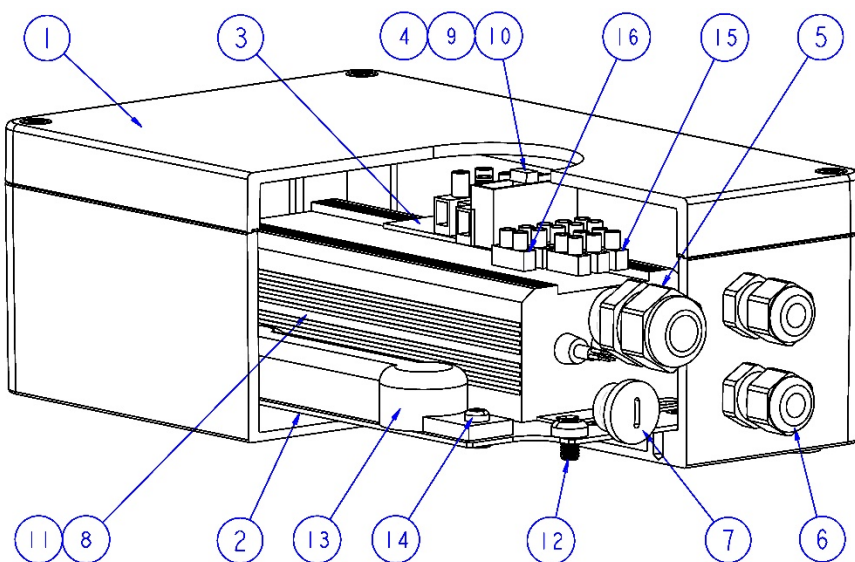
Serviceable Parts:

Upon opening the driver box by unscrewing four captive lid fasteners, replacement of RGBW LED driver, surge protection device or fused terminal block is accomplished by removal and replacement of associated fasteners and wiring. Further, a 10 Amp fuse located in the terminal block may be pulled out and replaced as required. **Caution! Ensure that VAC power is disconnected and locked out before servicing driver box.**



MODEL 12Q33R-60, 120-230VAC		
BALLOON	PART	DESCRIPTION
1	18042	ENCLOSURE
2	18035	MOUNTING PLATE
3	18003	TERMINAL BLOCK MOUNT
4	18043	FUSED TERMINAL BLOCK
5	18044	CABLE STRAIN RELIEF
6	18045	CABLE STRAIN RELIEF
7	18046	BLANKING PLUG
8	18048	RGBW LED DRIVER*
9	18011	M3.5 x 0.6 x 12LG PPHS
10	18013	FAST BLOW FUSE
11	18031	M4 x 0.7 x 6LG SST PPHS
12	18009	M6 x 1.0 x 8LG SST PPHS
13	18039	SURGE PROTECTION DEVICE*
14	18010	M4 x 0.7 x 8LG SST PPHS
15	18049	3-POLE TERMINAL STRIP
16	18051	5-POLE TERMINAL STRIP

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