

DV12 Light, 12VDC or 24VDC LED Array



Introduction:

Congratulations on the purchase of your new deck 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, security and safety.

General Operating Information:

The commercial grade Light Emitting Diode (LED) technology used in this light will provide robust and reliable operation under normal operating conditions.

General Safety Information:

This light is intended for vessel interior or exterior (rain or indirect water spray) lighting applications.

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

Technical Specifications:

Light Source = White LED array - 2.5 Watts - 6000 Kelvin color temperature - Approx 10,000 hours life

Available LED colors for 12VDC = Blue, red, cool white, warm white, red-white and blue-white

Available LED colors for 24VDC = Blue, red, cool white and warm white

Glass = Borosilicate glass - 3.2mm (0.125”) thick - 34mm (1.3”) diameter net aperture

Dimensions = 60mm (2.36”) diameter x 68.5mm (2.7”) long - 120 grams (4.2 ounces) - Fits through a 36mm (1.4”) diameter hole

Construction = Stainless steel - Black nylon

Power supply = 12VDC - 64MA, 24VDC - 36MA - 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 one year 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:

After selecting a flat surface, cut a 36mm (1.4") diameter hole through said surface at the desired location. Caution! Check that no electrical wiring, fuel lines, oil lines, water lines etc., pass near or through the intended hole location.

Unscrew Front Flange (2) and remove three supplied Phillips Pan Head Screws (8). Place Main Body (1) with Body Gasket (4) through above hole and carefully secure using three Phillips Pan Head Screws (8). Note: Depending upon installation surface material, three small pilot holes may be required. Screw the Front Flange (2) onto the Main Body (1) hand tight.

Depending upon the actual LED array supplied, connect the white, blue or red wire lead to a switched and fused power source then connect the gray or black wire lead to a good ground. Caution! On a two color LED array, do not operate both colors at the same time or light fixture overheating may occur.

Serviceable Parts:

LED Array Assembly (6) replacement is done by unscrewing the Front Flange (2), loosening the Cable Strain Relief (5), removing the old LED Array Assembly (6) with wire leads, inserting the new LED Array Assembly (6) while feeding the wire leads through the Cable Strain Relief (5), tightening the Cable Strain Relief (5) and then screwing the Front Flange (2) onto the Main Body (1) hand tight. Caution! Ensure that the new LED Array Assembly (6) is properly seated in the Main Body (1) as shown. Additionally, the Glass (3) is not field serviceable on this light because it is permanently bonded to the Front Flange (2).

BALLOON	DESCRIPTION
1	MAIN BODY
2	FRONT FLANGE, STAINLESS STEEL, MIRROR FINISH*
3	GLASS, FROSTED*
4	BODY GASKET
5	CABLE STRAIN RELIEF
6	WHITE AND BLUE LED ARRAY, 12VDC* WHITE AND BLUE LED ARRAY, 24VDC*
7	FRONT FLANGE O-RING
8	No. 4 x 5/8" LG STAINLESS STEEL PHILLIPS PAN HEAD SCREW
*PLEASE CALL FOR OTHER LIGHT COMPONENT CONFIGURATIONS	

