

QtLED 130 HP

- *The **QT-130 HP** LED underwater light features the smallest and brightest LED fixture on the market for composite and wooden hulls.
- *Never feel trapped by this fixture the LED projector can be easily removed for servicing and upgrades without the hassle of hauling your boat.
- *With a maximum of 25,000 lumens of cool white light power and its' 90 & 120 degree beam angles, it provides a perfect spread of light. Available in BLUE.
- *The **QT-130 HP** LED is recommended for GRP and wooden hull yachts of 20 meter+.
- *Distance between lights can vary from 1.5m (transom) to 5 meters (port & starboard) apart for the best illumination.
- *With complete Lloyd's Register Approval and ABS Design Appraisal on all components, the **QT-130** has been installed on some of the largest and most prestigious Superyachts in the world.
- *The **QT-130** is a completely customisable underwater lighting solution for larger yachts. We offer a bespoke design service tailored for each individual hull.



Maintenance
Inside the hull



Control Option
On/Off Switched



Driver
Remote



Growth Resistant Lens
Borosilicate Glass



Power
100-240vac



Installation
Thru- Hull



AVAILABLE
YES



AVAILABLE
YES

Hull Material
GRP and Wood



Boat Size
20 meter +



Lumens
Max 25,000



Kelvin
6,500K



Beam Angle
90/120 Degrees



IPX8
Underwater



www.underwaterlights.com

THE QT-LED RANGE IS DESIGNED AND MANUFACTURED BY UNDERWATER LIGHTS LTD IN THE U.K.

Type-130 HP, Issue 'A', Date-1-08-2017



QT I 30HP

Thru-Hull - LED serviced from inside

Mounting

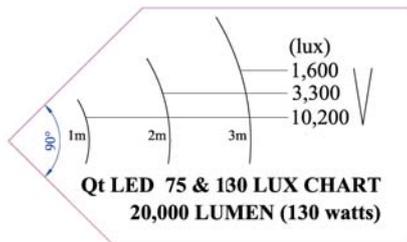
Hull Material	GRP / Fiberglass
Boat size	20meters+ (65ft)
Spacing	1meter (3.28ft)for Transom. 5meters (14ft) for P & S
Beam Angle	90° 120°
Installation Angles	Flush

Technical

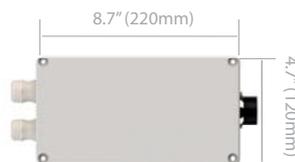
Lumens	25,000
Kelvin	6,500
Typical LED Life Expectancy	40,000 hrs
Min-Max Operating Voltage	110 - 240V AC
Current / Amp draw	1.4 - 0.7 amps
Driver Type	Remote
Driver Output	2.8 amps @ 55v
Control Options	On / Off switch
Bonding	Locking Ring

Physical

Length of fixture	150mm (5.90")
Diameter of fixture	130mm (5.11")
Profile (height) of fixture	7.6mm (0.3")
Removal Space Required	170mm (6.70")
Total weight	6kg (13 lbs)
Driver Dimensions (L x W x H)	8.7" x 4.7" x 3.5" (220 x 120 x 90mm)
Cable Length	10 feet - 3 meters'
Hole Cut-out	4" (101mm)
Material	Nickel Coated
Growth Resistant Lens	Borosilicate Glass
Maximum Hull Thickness	95mm (3.75")



Single Color Driver



Color

Part Number

White



QT-130-HP3W

Blue



QT-130-HP3B



0.3" (7.6mm) 5.90" (150mm)



Your Local Dealer



The Great Dunton Forge, London Road
Dunton Green, Sevenoaks, Kent TN13 2TD UK
T: +44 (0) 1732 455753 • F: +44 (0) 1732 743233
E: uw@underwaterlights.com

www.underwaterlights.com

VAT NO: 556 4425 31

Registered in England No: 2348038

QtLED130 INSTALL

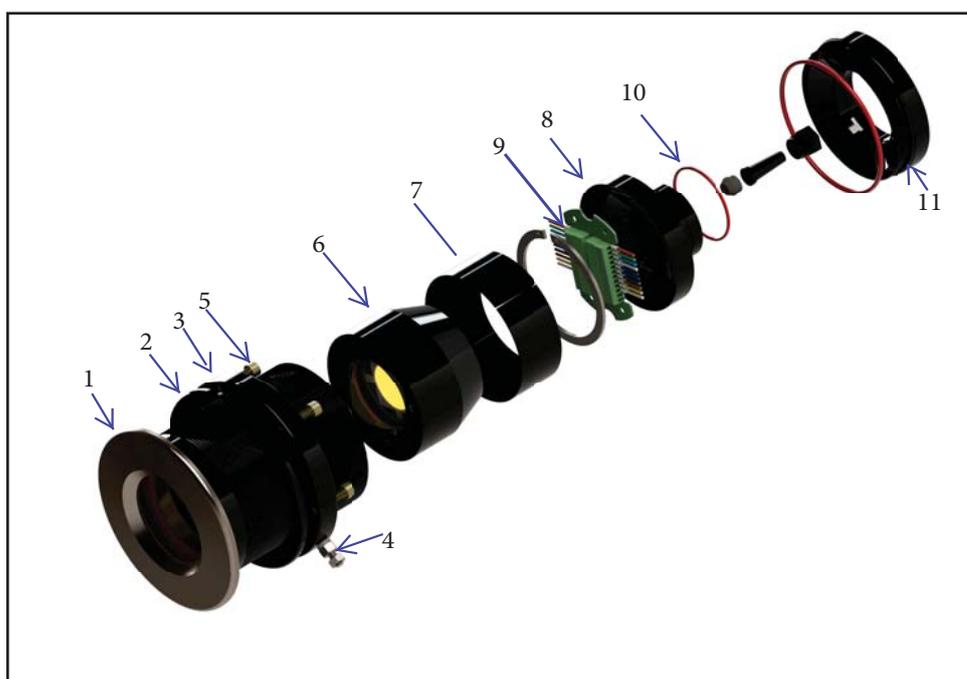
***DESCRIPTION** - This is a flush submersible marine light which uses a Qt-130 (1) screwed body for installation into composite and wooden hulls. Maintenance of the led light is carried out from inside the hull.

*The Body (1) is common for the HP3 (25,000lm) and the RGB+W leds.

*** FITTING THE BODY**- Qualified/Approved personnel must be used to carry out installation. Cut and prepare a 4 inch / 101mm clearance hole for the body (1). Coat the flange of the body and the area around the hole with 3M 4200FC or Sikaflex291 sealant then slide the body into the hole. From the inside fit the compensating ring (2) and screw the securing ring (3) up "hand tight". Adjust the screws (5) so the compensating ring is flush to the hull and check the sealant has flowed completely around the body flange(1). Do "NOT" over tighten the screws as this will squeeze the sealant from the surface. Allow the sealant to solidify and remove surplus. Finally tighten the adjustment bolts to 4Nm / 3ft.lbs Note for cored hulls - After cutting, the exposed surfaces of the hole must be finished to form a solid surface through it, thus protecting the internal core of the hull. Maximum hull thickness should not exceed 3.75 inches - 95mm. After completing the installation procedure it is highly recommended to coat the exposed body with antifouling and bond all lights to the anodes or a cathodic protection system if fitted by using the earth screw (4).

***REPLACEMENT OF LED**- The underwater light is supplied fully assembled. For removal of the LED follow the instructions - Unscrew the cover (11) and ensure the cable does not rotate. Remove the connection holder (8) then unplug the LED green plug (9) and place to one side. Slide the rear heat sink ring (7) out and place to one side. In the centre of the heat sink (6) screw in a M6 bar or bolt and slide the heat sink (6) out. Thoroughly clean all parts removed and the internal surfaces and lens. The replacement front heat sink(6), rear heat sink (7), LED connection holder (8) and cover (11) thread must be lightly coated with silicone grease. All is now ready to fit the LED by reversing the extraction procedure. Slide the front heat sink (6) into the barrel so that it lands on the lens retaining ring. Slide the rear heat sink (7), check that the green plug (9) is connected correctly and slide in the LED connection holder (8) up. Ensure all the plug cables are tidy before screwing the cover (11) up tight. Ensure the supply cable does not rotate and finally tighten the cover up.

***DRIVER INSTALLATION INSTRUCTION** - The driver must be located at least 60 cm above tank top with good ventilation and the maximum ambient temperature should not exceed 40C. The underwater lights is fitted with three meters of cable and a IP 68 plug that fits into the driver enclosure socket.



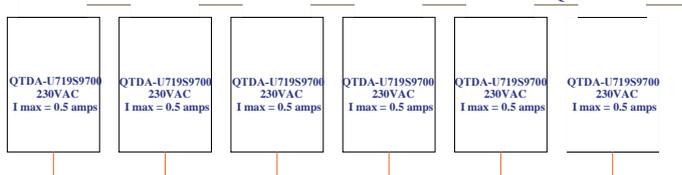
QtLED 150W DRIVER

ELECTRICAL INSTALLATION INSTRUCTIONS FOR QT-75 & 130

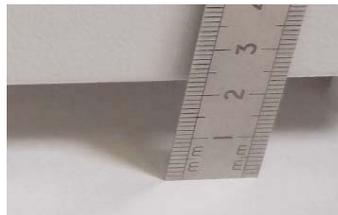
Qualified/Approved personnel must be used to carry out electrical installation.

- POWER SUPPLY TO DRIVER 110-240 VAC 50/60 Hz
- RECOMMEND ONLY SIX LIGHTS PER CIRCUIT. SEE DIAGRAM BELOW.
- THE DRIVER ENCLOSURE MUST HAVE A MINIMUM DISTANCE OF 50 CM FROM THE LED PROJECTOR
- THE DRIVER ENCLOSURE MUST BE FITTED MIN 60CM ABOVE TANK TOP OR BILGE
- THE DRIVER ENCLOSURE MUST HAVE AIR FLOW ON ALL SURFACES. USE THE 2 CM SPACERS FOR THE BACK SURFACE WHEN SECURING.
- THE DRIVER ENCLOSURE MUST BE INSTALLED VERTICALLY AS SHOWN IN PICTURE BELOW.
- THE MAXIMUM AMBIENT TEMPERATURE OF **45C MUST NOT BE EXCEEDED**
- THE LED PROJECTOR IS SUPPLIED WITH 3.0 METERS OF CABLE WITH THE PLUG AND SOCKET ALREADY CONNECTED. THIS CABLE CAN BE EXTENDED.
- THE POWER LED SHOWN ON THE STANDARD DRIVER PICTURE INDICATES WHEN LIT THAT THE DRIVER IS SUPPLYING POWER TO THE LED. IF THE LED IS OUT AND THERE IS POWER, THE DRIVER HAS FAILED.

ADVISE SIX DRIVERS TO ONE CIRCUIT
TOTAL CURRENT = 3 AMPS (RECOMMEND 3 CORE X 1.5mm sq)



POWER CONNECTION FOR DRIVER



DRIVER ENCLOSURE SPACE DISTANCE



DRIVER AND ENCLOSURE

Part no QTDA-U719S9700

- QT 130 EARTH LIGHT INSTRUCTIONS FOR CATHODIC PROTECTION- Tighten the earth screw on the securing ring so that it bites into the screwed barrel. Connect this to the hull anode or cathodic protection system. Check there is continuity to the front face. This prevents galvanic corrosion.

EARTH TAB AND SCREW

