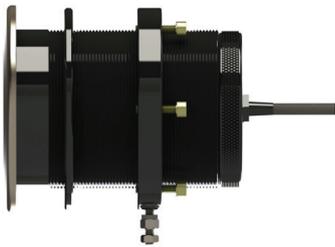


QtLED QTS-130-HP4 & RGBW

- *The **QTS-130** underwater light fixture uses a high impact borosilicate flat lens. The beam angle is 140 degrees and the white LED has a lumen output of 25,000 Lumens.
- *Never feel trapped by this fixture. The LED BALL has universal adjustment. The projector is designed to accept white, Blue and RGBW configurations and can be easily removed for servicing without the hassle of hauling your boat.
- *The **QTS-130** is recommended for GRP/Fiberglass and Wooden hull yachts of 20 -100 meters.
- *Distance between lights can vary from 1.5m (transom) to 2- 5 meters (port & starboard) for the best illumination.
- *The **QTS-130** has Lloyd's Register Approval and ABS Design Appraisal on all components. Using the latest technology allows our underwater lights to perform well in the harshest environment.
- *The **QTS-130** is made from anodized 5083 Aluminium and AB2 front face for extra protection.

-  **Maintenance**
Inside the hull
-  **Control Option**
DALI & DMX
-  **Driver**
Remote
-  **Lens and Pressure Test** Borosilicate Glass- 40 bar
-  **Power**
110-240vac
-  **Installation**
Thru- Hull


- Hull Material /** 
GRP & Wood
- Boat Size** 
20-100 meters
- Lumens** 
Max 25,000
- Kelvin** 
6,500K
- Beam Angle** 
140 Deg

IPX8
Underwater

www.underwaterlights.com






QTS- 130

Thru-Hull - LED serviced from inside

Mounting

| | |
|---------------------|-------------------------------------------|
| Hull Material | GRP / Fiberglass / Wood |
| Boat size | 20-100 meters+ (65+ft) |
| Spacing | 1.5meter for Transom. 2-5meters for P & S |
| Beam Angle | 140° |
| Installation Angles | Flush |

Technical

| | |
|---------------------------------|-----------------------------------|
| Lumens for the white and Kelvin | 25,000 lm at 6000K |
| RGB+W -all colours on | Approx-20,000 lm |
| Typical LED Life Expectancy | 40,000 hrs |
| Min-Max Operating Voltage | 110 - 240V AC |
| Current / Amp draw | 1.4 - 0.7 amps |
| Driver Type | External |
| Driver Output | HP4-150W RGBW-4 channels@700ma |
| Control Options | HP4-DALI RGBW- DMX |
| Bonding | Locking Ring |

Physical

| | |
|-------------------------------|------------------------------------------|
| Length of fixture | 150mm (5.90") |
| Diameter of fixture | 130mm (5.11") |
| Profile (height) of fixture | 7mm (0.27") |
| Removal Space Required | 152mm (6") |
| 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 max length 20 meters |
| Hole Cut-out | 4" (101mm) |
| Material | AB2 + 5083 Alu |
| Growth Resistant Lens | Borosilicate Glass |
| Maximum Hull Thickness | 95mm (3.75") |

Part Numbers



QTS-130-HP4-W



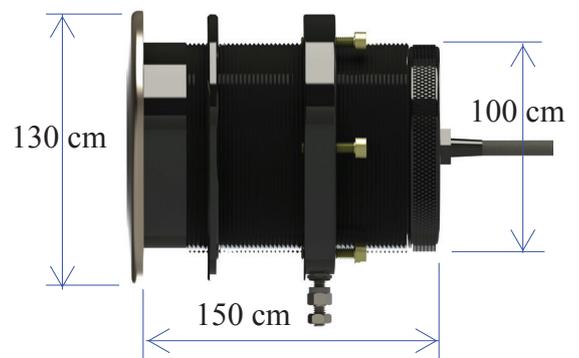
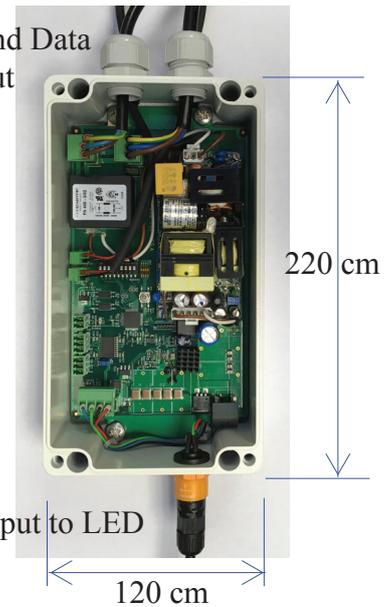
QTS-130-HP4-B



QTS-130-RGBW

Power and Data
in and out

**IP 65 Aluminium
Enclosure
220x120x90 cm**



Your Local Dealer



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QtLED QTS-130 INSTALL

***DESCRIPTION** - The **QT-130** is a "through-hull" submersible marine light using a flat glass lens and is delivered ready for installation. Maintenance of the LED is carried out from inside the hull. The light is suitable for installation into GRP/Fiberglass and wooden hulls. The LED is driven by an external AC driver (110-240vac). The white produces 25,000 Lumens.

*The Body (1) is common for the HP4 Driver(25,000lm) and the RGB+W leds.

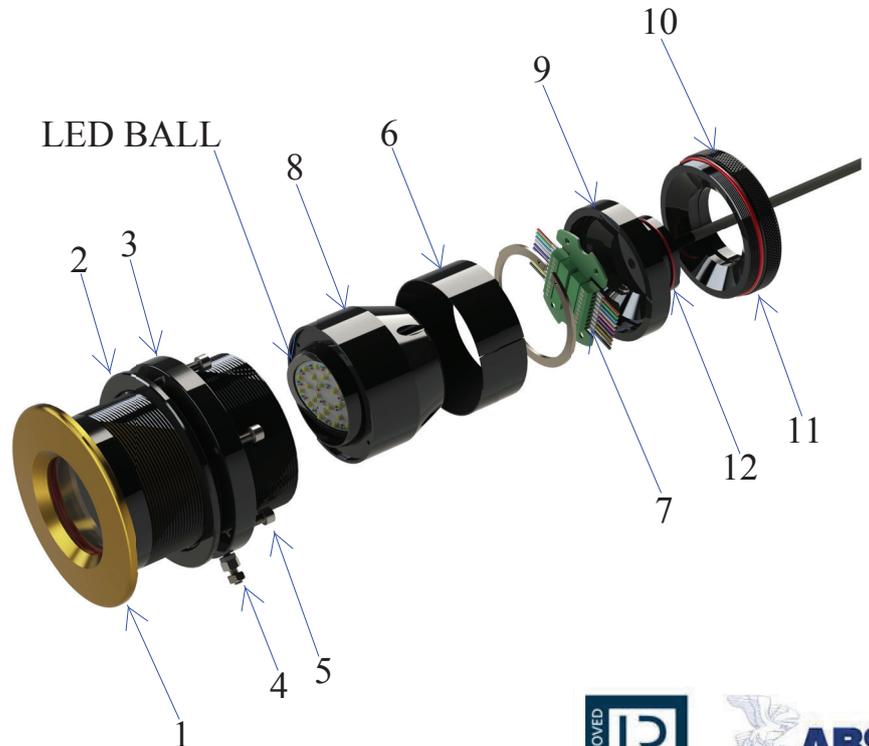
***FITTING THE BODY**- Qualified/Approved personnel must be used to carry out installation. Cut and prepare a 4 inch / 101mm clearance hole for the body (1). Coat the flange of the body and the area around the hole with 3M 4200FC or Sikaflex 291 sealant then slide the body into the hole. From the inside 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 (5) 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 3.5 inches - 9 mm. After completing the installation procedure it is highly recommended to coat the exposed body with anti-fouling and bond all lights to the anodes or a cathodic protection system if fitted by using the earth screw (4).

***REPLACEMENT/ADJUSTMENT OF LED**- The underwater light is supplied fully assembled. For removal/adjustment of the LED Ball follow the instructions-

Unscrew the securing cover(10) and ensure the cable does not rotate. Remove the connection holder (9) and unplug the LED from the green plug (7) and place to one side. Slide the expansion bush (6) and LED heat sink (8) out and place to one side. Thoroughly clean all parts removed and the internal surfaces and lens. Replace the LED heat sink (8) and the expansion bush (6), Connect the LED to the green plug (7) housed in the connection holder (9) and push all parts firmly into the barrel. Adjust the LED BALL to the desired angle. Lightly coat the thread on the cover (10), 'O' rings (11 & 12) with silicone grease and screw tight.

***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 has three meters of cable and a IP 68 plug that fits into the driver enclosure socket (plug and play).

| DESCRIPTION | Qty |
|----------------------------|-----|
| 1-BODY | 1 |
| 2-COMPENSATING RING | 1 |
| 3-SECURING RING | 1 |
| 4-EARTH SCREW | 1 |
| 5-ADJUSTMET BOLTS | 6 |
| 6-EXPANSION BUSH | 1 |
| 7-PLUG | 1 |
| 8-LED BALL HEAT SINK | 1 |
| 9-SECURING BUSH | 1 |
| 10-SCREWED RETAINING COVER | 1 |
| 11- 'O' RING | 1 |
| 12- 'O' RING | 1 |

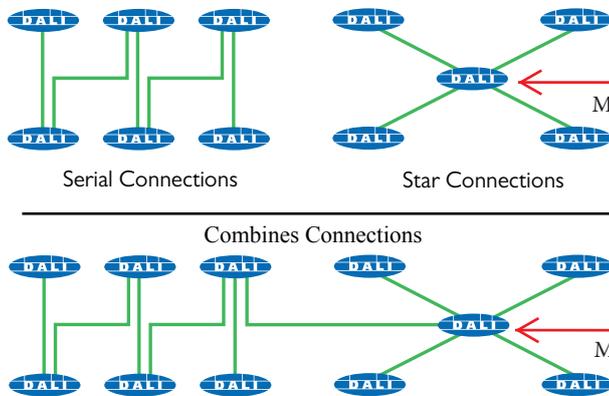




HP4 DALI AND LIGHT ELECTRICAL CONNECTIONS

- * The information below is ADVISORY only. Please check with the installer who is responsible for the design and installation of the system.
- * DALI permits a combination of star and series connections using two core cable for the data connection as seen below. However if there is no decision to chose a single colour underwater light (DALI control) or RGB+W (DMX control) it would be advised to install a suitable three or four core cable that can be used for both DALI and DMX .
- * Obviously there will be changes to the hardware such as drivers, LED and DMX splitters but the installed wiring can be used. Please see the DMX specification sheets.

DALI permits a combination of star and series connections, as illustrated below:



Series wiring may provide easier cable laying, while star configurations can offer an advantage with respect to cable length. The maximum distance between two communicating units should be 300 meters (984 feet)

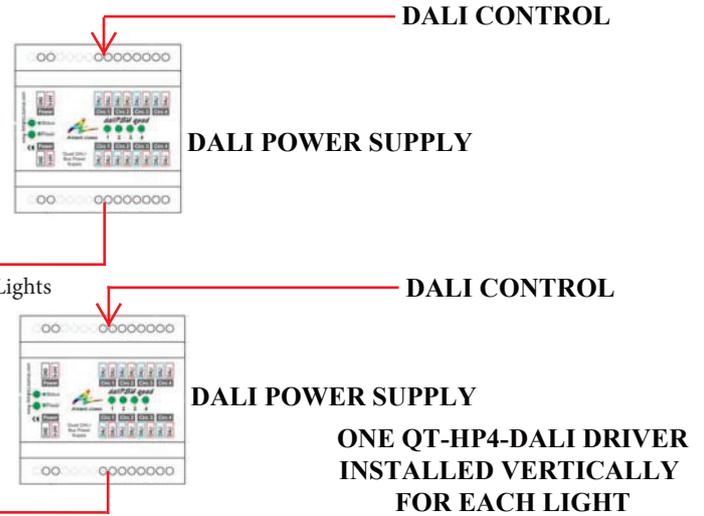
Maximum system current input of 250mA. Each component connected to the interface may consume a maximum of 2mA. This must be taken into consideration when selecting the power supply. Maximum number of 64 units with an individual address.

Volyage Supply (Control)

In general, the digital interface voltage is 16V, ranging from 22.4 - 9.5V. Different units are capable of supplying the interface: Due to the low transmission rate, there is no need to use special cables or wires such as twisted or shielded cables. As a rule, a distance of 984 feet (300 meters) should not be exceeded between two communicating units.

WIRE SELECTION

Due to the low transmission rate, there is no need to use special cables or wires such as twisted or shielded cables. As a rule, a distance of 984 feet (300 meters) should not be exceeded between two communicating units.



POWER IN & OUT

DALI IN & OUT



To Underwater light



DISCONNECT POWER BEFORE DISMANTLING

- * INPUT 110/240vac 50-60Hz.
- * AMP Draw 1.4a - 0.7a
- * Maximum LED wattage 150 watts
- * OUTPUT Max 97 VDC

