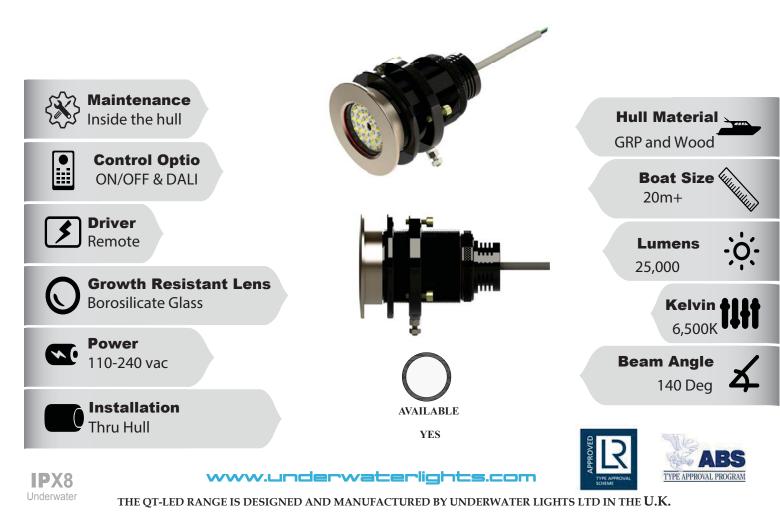


The art of superyacht lighting



- *The **QTS-100-HP4** underwater light fixture uses a high impact borosilicate glass with a flat lens for a 140 degree wide beam angle. The fixture also allows for an increase in Led power for extra light output.
- *Never feel trapped by this fixture as the LED projector is designed for White,Blue, Dual or RGB+W and can be easily removed for servicing and upgrades without the hassle of hauling your boat.
- *The cool white LED has an output of 25,000 lumens. With its 140 degree beam angle, the flush fixture provides a perfect illumination.
- *The QTS-100-HP4 is recommended for GRP and Wooden hull yachts of 20m +.
- *Distance between lights on the transom can vary from 1 to 1.5m and from 1 to 5m for port and Starboard.
- *The QTS- 100 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- 100 is made from anodized Aluminium and titanium for extra protection.





Thru-Hull - Led serviced From inside

Mounting

Hull Material	GRP / Fiberglass
Boat size	20meters+ (65ft+)
Spacing	1-1.5M /1-5M port & Starboard
Beam Angle	140°
Installation Angles	Flush

Technical

Lumens	25,000
Kelvin	6,500
Typical LED Life Expectancy	40,000 hrs
Min-Max Operating Voltage	110-240 V AC
Current / Amp draw	1.4-0.7 amp
Driver Type	Remote
Driver Output	97VDC @1.4A
Control Options	On / Off & DALI
Bonding	Locking Ring

Color Part Number White QTS- 100-HP4W



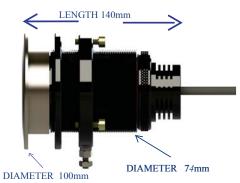
Physical

Length of fixture	140mm (5.5")	
Diameter of fixture	100 mm (4")	
Profile (height) of fixture	5 mm (0 3/16")	
Removal Space Required	170 mm (6 11/16")	
Total weight	1.7KG (3.74lbs)	
Driver Dimensions (L x W x H)	220 X 120 X 90MM	
Cable Length	6 meters (19,68 ft)	
Hole Cut-out	74mm (2.91")	
Material	Titanium + 5083 aluminium	
Growth Resistant Lens	Borosilicate Glass	
Maximum Hull Thickness	80mm (3 1/4")	

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Your Local Dealer

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*QTS LED 100 Installation (Maximum hull thickness 80mm) and Operation instructions.

The QTS 100 RGB+W is a "through- hull" submersible marine light using 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 24vdc driver (4 channels @72vdc) or a mains Driver 110/240 vac.

*Qualified/Approved personnel must be used to carry out installation

Before cutting a 74mm hole in the hull, check the hull wall thickness is not greater than 80mm. The location of the holes must be below the waterline. After finishing the hole surface, check the Body (1) can be inserted.

*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. The wall thickness of the hole should not to less than 5mm-0.25inch. Apply 3M-4200FC sealant to the 'Body' (1) flange. Slide the body into the hole and from inside the hull put the 'compensating ring' (3) on and screw the securing ring' (4) up hand tight. Gently tighten the adjustment screws (7) so the compensating ring is flush to the hull and the sealant has flowed completely around the flange and hull.

***Do NOT overtighten the bolts** as this will squeeze the sealant from the surfaces. Allow the sealant to solidify and remove surplus. Finally tighten the bolts (5) to 4Nm. / 3ft. lbs.

*It is not necessary to remove the heat sink parts (2, 5 & 7) when carrying out installation.

* To remove the heat sink (2) unscrew the clamp ring (5).

*Before fitting the new LED heat sink (2) ensure the barrel part of the body (1) and the lens is clean. Use silicone spray to lightly coat the heat sink (2), clamp ring (5) and sealing 'O' rings (6). Slide the heat sink (2) into the

Use silicone spray to lightly coat the heat sink (2), clamp ring (5) and sealing 'O' rings (6). Slide the heat sink (2) into the barrel and tighten the knurled securing clamp ring (5) to secure the heat sink (2) into the body. When the heat sink (2) cannot be rotated the clamp ring (5) has secured all in place. If this is not done it will cause overheating of the LED and the LED could fail.

*Caution: do not operate lights unless totally submerged. Maximum cable length should not exceed 6m due to voltage drops. After completing the installation procedure it is highly recommended to coat the BODY (1) face with antifouling and bond the lights to the anodes or a cathodic protection system as shown below.

*EARTHING LIGHT FOR CATHODIC PROTECTION-tighten the earth screw (8) on the securing ring (4) so that it bites into the screwed barrel. Check there is continuity to the front face. This prevents galvanic corrosion.

*ALL EXISITING WIRING, BREAKERS & FUSES MUST BE CHECKED BEFORE UPGRADING BY A REPUTABLE INSTALLER OR SURVEYOR

*The light must be installed onto a flat (not curved) surface. Mount on transom or side hull only.

*The light is supplied with the LED heatsink (2) done up tight. You must check this is still done up hand tight with the clamp ring (5) after install whether you remove the insert or not

QTS 100 Description	Qnty.
1; BODY	1
2; LED HEAT SINK	1
3; COMPENSATING RING	1
4; SECURING RING	1
5; CLAMP RING	1
6; 'O' RINGS	2
7; ADJUSTMENT SCREWS	3
8; EARTH SCREW	1

TECHNICAL SPECIFICATION

*Supply Voltage *Supply Voltage *LED Driver *BODY Materials 24vdc. Maximum 150w- current 6.1 Amps 110-240vac. Maximum 150w-current 1.3-0.7 Amps Remote Titanium & 5083 ALU.







www.underwaterlights.com

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

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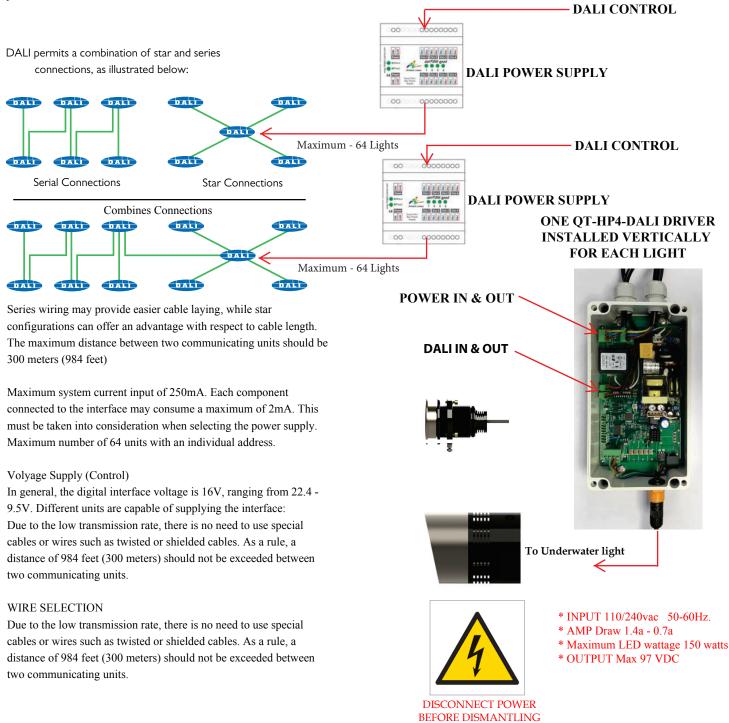
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CELED HP4 DALI AND LIGHT ELECTRICAL CONNECTIONS

* The information below is ADVISARY 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.





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