

**UWL**<sup>TM</sup>  
The art of superyacht lighting

# QT-LED

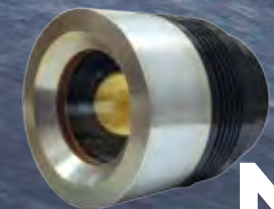
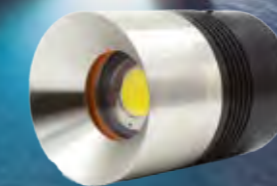
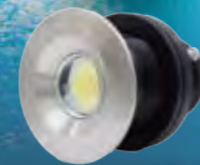
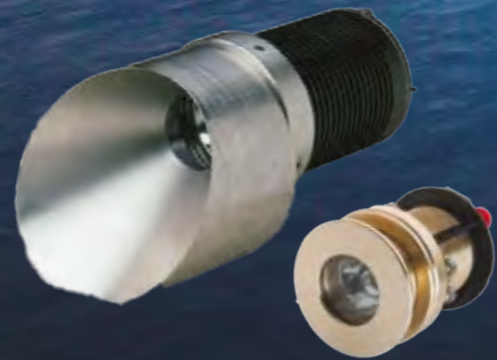
## INSTALLATION GUIDE

[UNDERWATERLIGHTS.COM](http://UNDERWATERLIGHTS.COM)

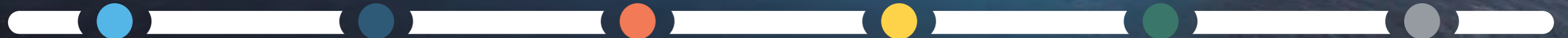
THE QT-LED RANGE IS DESIGNED AND MANUFACTURED BY UNDERWATERLIGHTS LIMITED

# QT-LED

## INSTALLATION GUIDE



**NEW**



**1991**

The launch of the worlds first underwater light for yachts - The Bulleyt.

**2005**

The Bulleyt is superseded by the UL Ti MATE range

**2009**

We launched our first ULTIMATE light with LED

**2016**

QT LED launched using latest technology with flat LED chip producing 100% more lumens

**2022**

QTS 75 launched using our unique design allowing universal adjustment for ease of installation.

**2024**

QTE 140 is flush mounted to the hull and has a larger aperture for wider beam angle and universal adjustment.

[WWW.UNDERWATERLIGHTS.COM](http://WWW.UNDERWATERLIGHTS.COM)

THE QT-LED RANGE IS DESIGNED AND MANUFACTURED BY UNDERWATERLIGHTS LIMITED

## IMPORTANT

**IMPORTANT:** Please read the instructions completely before proceeding with the installation, for full manual please visit [www.underwaterlights.com](http://www.underwaterlights.com). Failure to follow the instructions may invalidate your warranty.

This manual contains important information about the installation, operation and safe use of this product.

This information should be given to the owner and/ or operator of this equipment.

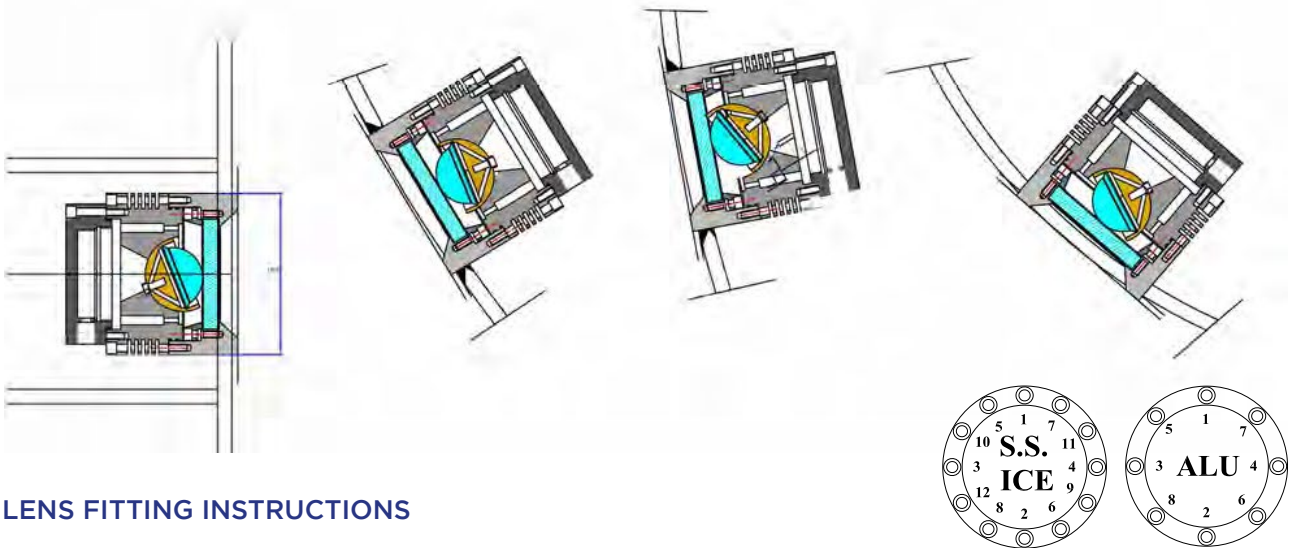


# QT-LED

## INSTALLATION GUIDE

### QTE-140 INSTALLATION

**DESCRIPTION** - The QTE-140 range is a submersible marine light with a universal 20 degree ball adjustment. There are two types of insert 316 stainless steel and 5083 aluminium which have been machined so they can be welded flush to the hull at the appropriate locations. All weldins are machined from 3.2 Lloyds certificated material and individually stamped. Final adjustment of the beam angle to the horizontal is carried out from inside the hull. See instructional information below.



### LENS FITTING INSTRUCTIONS



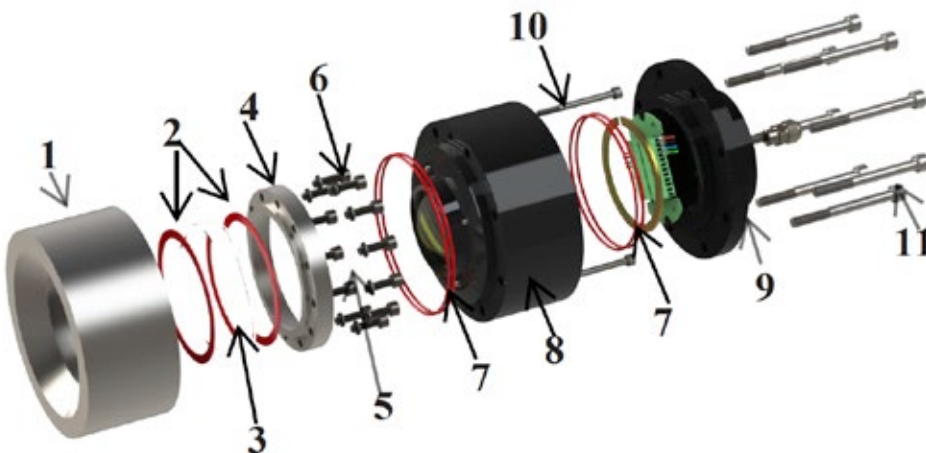
Remove the blanking plate and check the insert (1) lens landing surfaces are clean and apply a suitable silicone grease to the gaskets (2). Fit the lens (3), gaskets (2) and lens retaining ring (4). Hand tighten the cap head bolts (6) making sure the lens retaining ring (4) is square. Torque the bolts to 7Nm (4.5ft/lbs) in the sequence shown above, check the ring again and re-torque the screws again to the same setting.

### LED PROJECTOR FITTING INSTRUCTIONS

All bolts and nuts are torqued to 7Nm (4.5ft/lbs)



The LED heatsink (8) with the orings (7) fitted is inserted into the insert (1) and secured with the two M5 bolts(10). The LED ball can then be adjusted. The LED heat sink cover (9) is fitted into the heatsink (8) with the orings (7) fitted and secured using the eight M8 (11) bolts securing the parts to the insert (1).

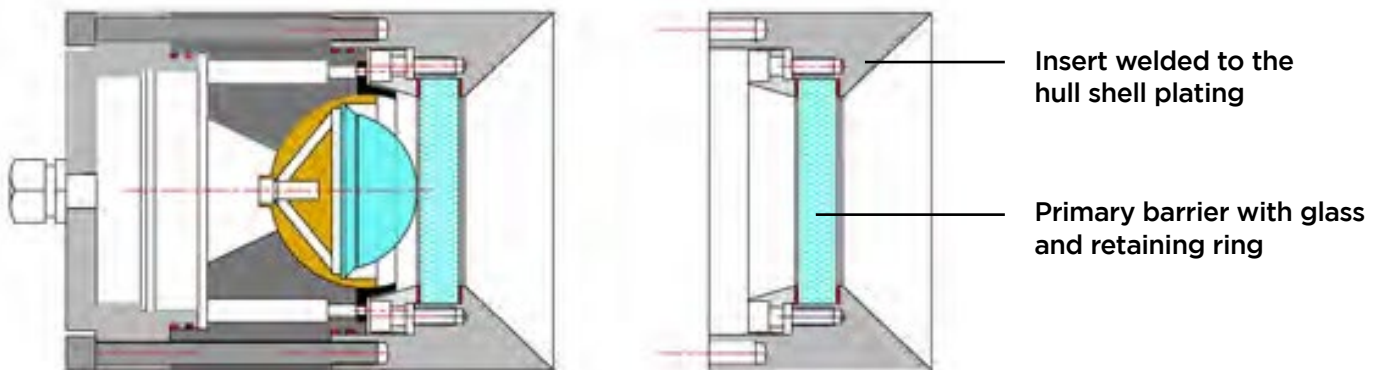


DESCRIPTION	QNTY
1 - INSERT S.S	1
1 - INSERT ALU	1
2 - GASKET	2
3 - GLASS LENS	1
4 - LENS SECURING RING S.S	1
4 - LENS SECURING RING ALU	1
5 - M6 SPRING WASHERS S.S	12
5 - M6 SPRING WASHERS ALU	N/A
6 - M6 CAP HEAD BOLTS A4	12
6 - M6 CAP HEAD BOLTS Ti	12
7 - 'O'RING	4
8 - LED HEATSINK	1
9 - LED HEATSINK COVER	1
10 - M5 TITANIUM CAP HEAD BOLTS	2
11 - M8 TITANIUM CAP HEAD BOLTS	8

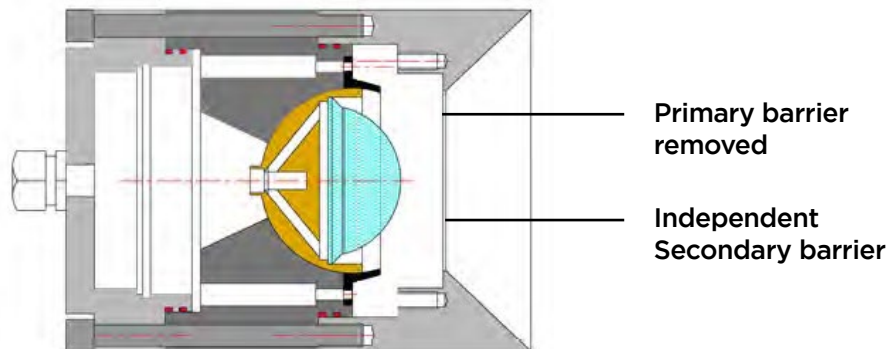
## QTE-140 INSTALLATION INFORMATION

The design of the QT-75, QTS-75 and the QTE-140 was to ensure that the primary containment design pressure exceeded the design hull pressure of an ice class yacht using 19mm thick shell plating.

Primary containment is shown shaded with the glass and glass retaining ring installed in the inserts which is welded to the hull shell plating forming the primary barrier. The pressure test was carried out on the water front (water side) face to 100 bar.



Secondary containment is shown below shaded with the primary barrier glass and securing ring removed and this containment barrier is bolted to the insert using the bolts. A pressure test was carried out from the waterside of the insert and tested to 8 bar.



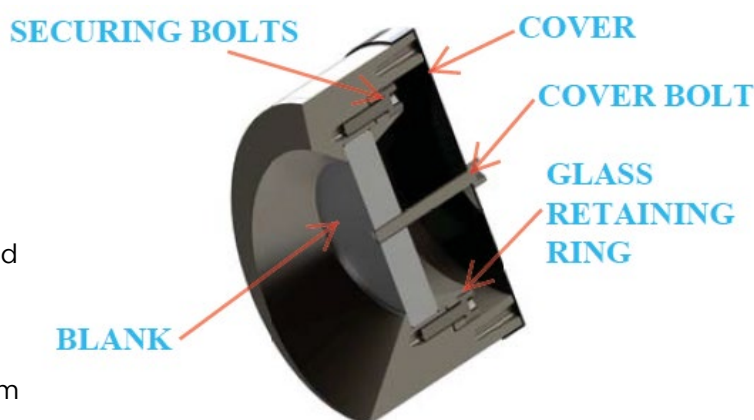
For ease the above information shows that the primary and secondary barrier are totally independent of each other negating the installation of a cofferdam around the underwater light. Subject to approval.

## QTE-140 INSERT – WELDING, FINISHING & PROTECTION PROCEDURES

The inserts are delivered fully protected with cover and blank disc which **must not be removed** during the welding and painting.

The QT range welding procedures shown are typical for most installations and are for guidance purposes only. Always use a certified welder and fire watch when welding. Protect all threads and internal surfaces against welding, grinding and painting.

The insert is to be fitted a minimum of 300mm below the yachts waterline when loaded with 50% fuel and 50% freshwater onboard.



### 316L SS Welding procedure

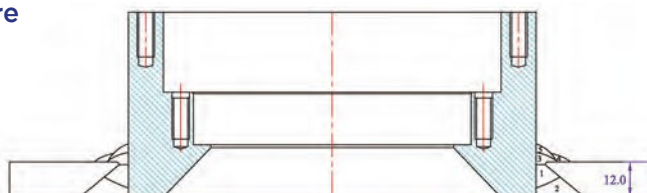


RUN	PROCESS	SIZE OF FILLER METAL	CURRENT A	VOLTAGE V	TYPE OF CURRENT / POLARITY	WIRE FEED M/MIN	TRAVEL SPEED* MM/S	HEAT INPUT KJ/MM
1-7	MMA	3.2	100-115	≥ 55 OCV	AC	-	-	

**Welding procedure Ref.No:** UL-CSSS-TB-01  
**Joint type:** Full penetration butt with fillet  
**Preparation & cleaning:** Thermal cut and grind  
**Parent material spec:** ASTM A276:316L stainless to BS 4360:43A carbon steel  
**Material thickness (mm):** 8-16mm plate  
**Outside diameter (mm):**  
**Filler metal classification:** AWS A5.4:E309MOL-17  
**Filler metal tradename:** ESAB OK 67.70

**Welding position:** Butt: Horizontal (PC) and vertical up (PF)  
 Fillet: Overhead (PD), vertical up (PF) and horizontal vertical (PB)  
**Gas flux shielding:** Acid rutile flux  
**Details of back gouging:** Back grind root of butt  
**Preheat temperature:** 10°C min.  
**Interpass temperature:** 240°C max.  
**Temperature control:** Thermal indicating crayon

### 5083 Welding procedure



RUN	PROCESS	SIZE OF FILLER METAL	CURRENT A	VOLTAGE V	TYPE OF CURRENT / POLARITY	WIRE FEED M/MIN	TRAVEL SPEED* MM/S	HEAT INPUT KJ/MM
1-7	MMA	3.2	100-115	≥ 55 OCV	AC	-	-	

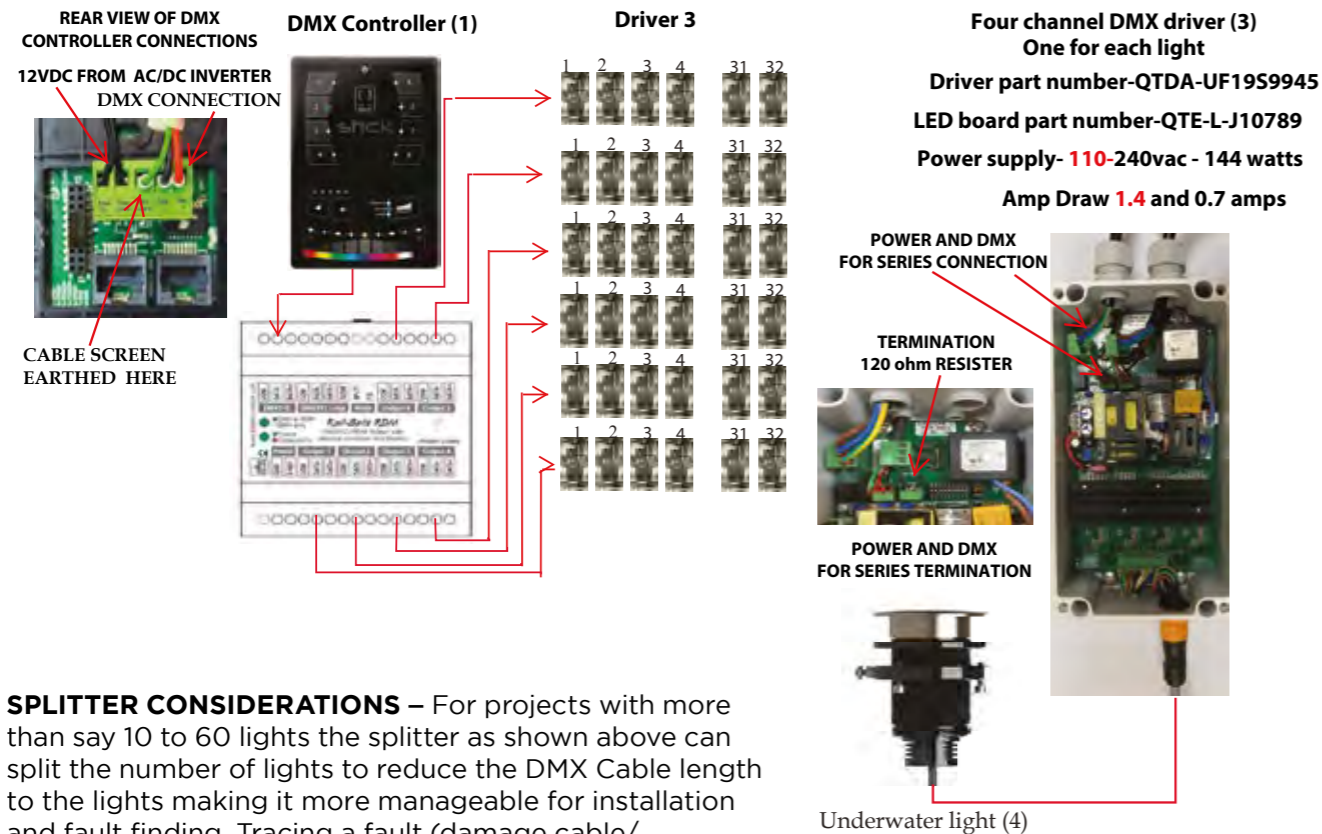
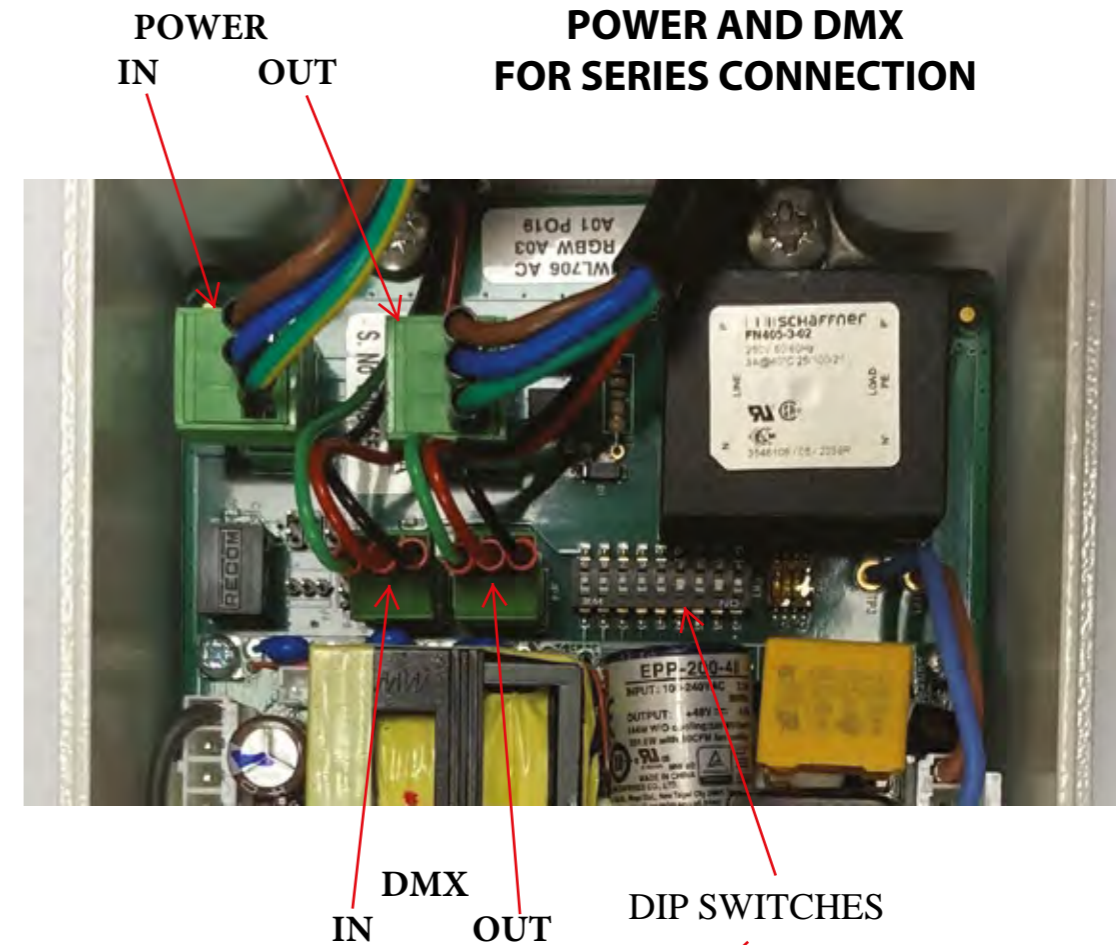
**Welding procedure Ref.No:** UL-AL-TB-01  
**Joint type:** Full penetration butt with fillet  
**Preparation & cleaning:** Cut, grind, wirebrush & degrease  
**Parent material spec:** BS 1474:5083:0 (Bulleyt) to BS 1470:5083:0 (plate)  
**Material thickness (mm):** 6-12mm plate  
**Outside diameter (mm):**  
**Filler metal classification:** BS 2901:pt 4:5356  
**Filler metal tradename:** INCO ALLOYS 5356

**Welding position:** Butt: Horizontal (PC) and vertical up (PF)  
 Fillet: Overhead (PD), vertical up (PF) and horizontal vertical (PB)  
**Gas flux shielding:** Argon gas  
**Gas flow rate - shielding:** 20 LPM  
**Details of back gouging:** 10°C min  
**Preheat temperature:**

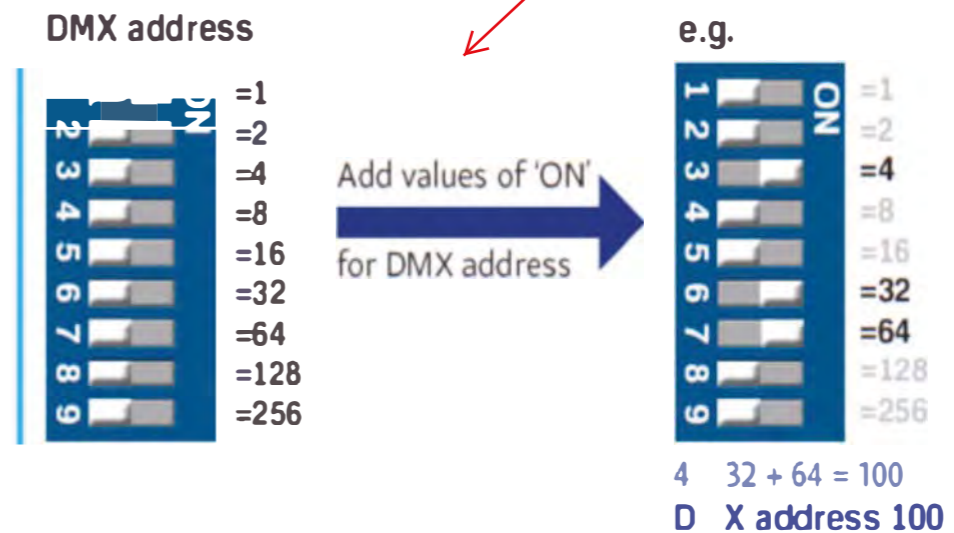
### ELECTRICAL INFORMATION FOR QT/QTS75/100 AND QTE 140 – DMX SPLITTER AND LIGHT CONNECTION

Shown below is a simple connection diagram for the DMX controller (1) and the mains power to the four channel driver (3) and the RGBW underwater lights (4)

- 1. Light Connection** Every light has a standard 6 meter length of cable to connect the light to the aluminium enclosure which has an IP68 socket for plug and play. A longer cable of up to 18 meters can be used if required.
- 2. DMX connection** ALL DRIVERS (3) are connected in series from the DMX Controller (1). Maximum number of drivers is 32, after this a rail splitter is required. Use the 120 ohm termination resistor supplied on the final driver.
- 3. Mains power** The drivers are recommended to be connected in series using 3 core cable 2.5mmsq halogen free. Maximum number of lights 110vac is 8, 240vac is 12. Recommended fuse breaker for safety is 16amp.
- 4. DMX Cable** Shown below is DMX 512 standard impedance cable suppliers. This cable must be used for connecting the DMX controller to the drivers and the screening grounded to the back of the controller. This is to be installed in a dry area.
- 5. Four channel DMX driver** Shown installed into an IP66 enclosure (dimensions 220 x 120 x 90mm).
- 6. DMX Controller** this has an IP 20 rating and is supplied with a 100-24vac/12vdc convertor. This is to be installed in a dry area.
- 7. Driver enclosure** must have airflow on all surfaces. Use the 2cm spacers for the back surface when securing. The driver enclosure must also be installed vertically as in the picture below.



**SPLITTER CONSIDERATIONS** – For projects with more than say 10 to 60 lights the splitter as shown above can split the number of lights to reduce the DMX Cable length to the lights making it more manageable for installation and fault finding. Tracing a fault (damage cable/connections) on 30 lights could be quite time consuming.



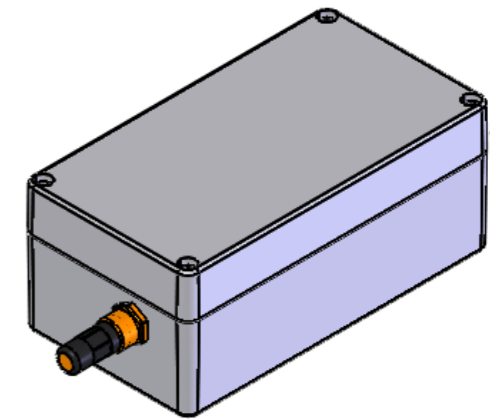
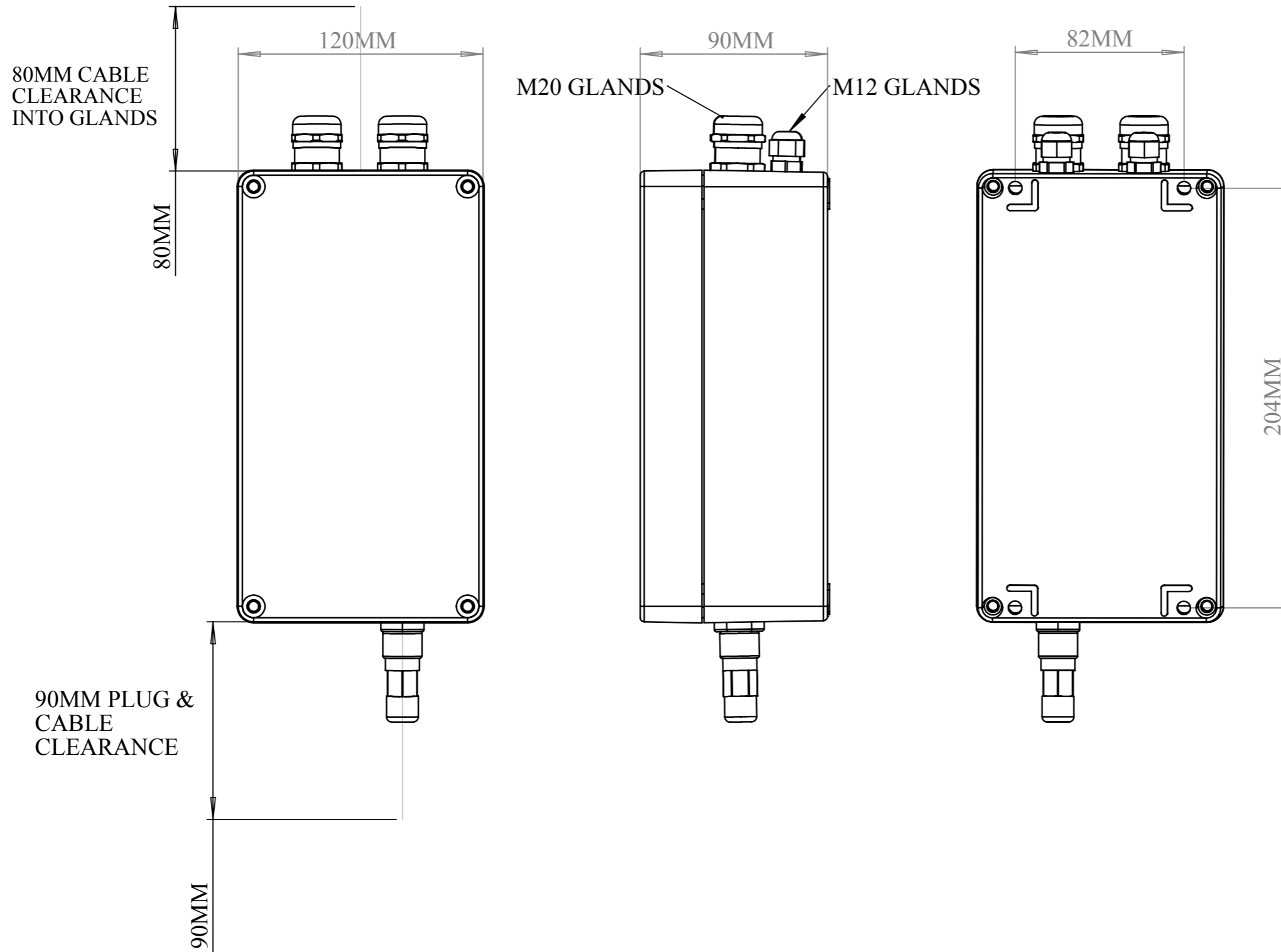
**DMX-512 Standard cable- some suppliers are shown below. Note the cable screening must be grounded.**

- RS PRO Multicore Industrial Cable, 4 cores, 0.22mm sq, DEF STAN Screened, 25m, Black PVC sheath
- RS stock No. 236-9263
- DMX Cable-CAB-DMX-100
- CPC- FARNELL No DP37534



**IMPORTANT INFORMATION**

**DISCONNECT POWER BEFORE DISMANTLING LED MUST BE CONNECTED TO THE DRIVER BEFORE APPLYING POWER**



## Warranty Statement

Warranty Statement Underwater Lights Limited (UWL) stands by its products. In general terms, the company gives a full 2 year's manufacturer's warranty on all its products from the date of sale, provided that the products have been installed correctly per the installation instructions available on the website at: [www.underwaterlights.com](http://www.underwaterlights.com). To submit a claim, please read and follow the guides lines in the warranty statement below; Section 6: Making a claim. Please note, claims may be rejected if the troubleshooting guidelines are not completed, photographs of the unit and area where it is installed are not included with claim submission, or the problem is related to how and where the unit was installed. Please note that all metal parts corrode in salt water. The primary factors affecting corrosion are not directly related to our products and accordingly UWL cannot be held responsible for corrosion-related defects, this includes but is not limited to where water has been allowed to enter the cable as a result of immersion in water during the installation or improper sealing of connections. Please note corrosion will be particularly aggressive if installation and/or bonding has not been correctly undertaken; or if stray currents are active in the vicinity of the boat. (Claims will also be rejected if bonding of the units has not been installed). Claims will also be rejected if the units were found to be installed in an inappropriate position without prior approval from Underwater Lights LTD. As made clear on the installation sheet included with your lights original packaging, lights should not be installed pointing down where they can accumulate water. Underwater Lights LTD products are tested and approved to IPX8 protection from the front face ONLY. Submersion from behind may result in failure of equipment and is not covered by this warranty policy. The installer and operator must engage in preventative action to ensure the back of the light units located inside the boat do not become submerged at any time. Floods, pump failures and faulty hatch seals which lead to equipment failure is not covered by this warranty policy. Color variation commonly occurs within the LED manufacturing process. Whilst UWL makes every effort to match the color of any lights there may be a noticeable difference when installed next to existing lights. UWL does not warrant this color variation on lights. All UWL products must be connected to the anodes or cathodic protection system and checked to ensure there is good connection to the front face of the light. Failure to bond lights during install will invalidate the lights warranty. Information on bonding procedure is provided with your lights. All Underwater Lights products must be installed by qualified marine installers and certified electricians. No warranty will be honored if lights are damaged by improper installation either in terms of placement (see above) or sound electrical standards are not followed. Underwater Lights LTD can advise on light locations and simple circuit diagrams, however, we will not advise and therefore have no liability when it comes to installation by a 3rd party in relation to power distribution, electrical protection or installation in hazardous areas. UWL reserves the right to change the design, range and components without any prior notification either written or implied. The detailed terms and conditions of this warranty are set out below:

**1: WARRANTY OF QUALITY** 1.1 In the case of LED goods manufactured and sold by UWL, a company incorporated in England and Wales (registered number 2348038) and whose registered office is at The Great Dunton Forge, London Road, Dunton Green, Kent, United Kingdom, TN13 2DG (the "Goods" and the "Company", respectively), the Company warrants to the purchaser of the Goods (the "Buyer") Conditions and unless otherwise notified) upon delivery (whether installed or not). That (subject to the other provisions of these) The Goods supplied shall be of satisfactory quality within the meaning of the Sale of Goods Act of 1979. 1.2 the Company shall not liable for a breach of the warranty in Condition 1.1 unless: 1.2.1 the Buyer gives written notice of the defect to the Company, and to the carrier if the defect is as a result of damage in transit, within 14 days of the time when the Buyer discovers or ought to have discovered the defect; and 1.2.2 the Buyer has the obligation to provide all the requested information where is reasonably possible and provided a truthful statement of all information requested in relation to the claim. 1.2.3 the Buyer returns such Goods to the Company's place of business at the Buyers cost, regardless of the outcome of the claim. 1.2.4 the Company is given a reasonable opportunity after receiving the returned Goods for the examination to take place at the company's place of business. 1.3 the Company shall not be liable for a breach of the warranty in Condition 1.1 if: 1.3.1 the Buyer makes any further use of such Goods after giving such notice; or 1.3.2 the defect arises because the Buyer failed to follow the Company's oral or written instructions as to storage, transportation, installation, commissioning, modification, use or maintenance of the Goods or (if there are none) good trade practice; or the defect arises from the corrosion of metal parts or the failure of the Buyer to ensure that Goods are installed correctly, installed in approved locations, bonded correctly and that there are no active stray currents in the vicinity; or 1.3.3 the defect arises as a result of any default of, or caused by, the Buyer or (without limitation) as a result of misuse, abuse, improper installation, neglect, improper shipping by a party other than the Company; or 1.3.4 the Buyer alters, repairs or modifies such Goods without written consent of the Company; or 1.3.5 the defect arises due to a cause beyond the Company's reasonable control, such as: act of God, explosion, flood, tempest, re or accident, including without limitation lightning; war or threat of war, national emergency, sabotage, terrorism, insurrection, protest, riot, epidemic, civil disturbance or requisition; Acts, restrictions, regulations, by-laws, prohibitions or measures of any kind on the part of any governmental, parliamentary or local authority; import or export regulations or embargoes; strikes, lock-outs or other industrial actions or trade disputes (whether involving employees of the Company or of a third party); restraints or delays affecting carriers or inability or delay in obtaining supplies of adequate or suitable materials; or power failure or breakdown in machinery. 1.3.6 where the Company has notified the Customer directly of in service modification(s) deemed necessary to further protect the Goods from damage have not been followed. 1.3.7 where a claim has been made where the Goods ownership is in dispute. 1.3.8 where the parts were not purchased from an authorized outlet.

1.3.9 where the goods were purchased via the internet from the United States but were not shipped to an address or installed in the United States. 1.4 Subject to Conditions 1.2 and Condition 1.3, if any of the Goods do not conform with the warranty in Condition 1.1 the Company shall at its option repair or replace such Goods (or the defective part) without charge for labor or parts or refund the price of such Goods at the original purchase price. The Company shall pay for the return transportation to the Buyer of such repaired or replaced Goods. 1.5 Any Goods replaced shall belong to the Company and any such repaired or replacement Goods shall be guaranteed on these terms for the unexpired portion of the warranty period of the warranty in Condition 1.1.

**2: LIMITATION OF LIABILITY** 2.1 These Conditions set out the entire financial liability of the Company (including any liability for the acts or omissions of its employees, agents and sub-contractors) to the Buyer in respect of: 2.1.1 any breach of these Conditions; 2.1.2 any defect in the Goods; 2.1.3 any use made or resale by the Buyer of any Goods, or of any product incorporating any of Goods; and 2.1.4 any representation, statement or tortious act or omission including negligence arising or in connection with the contract with the Buyer. 2.2 All warranty, conditions and other terms implied by both UK law are, to the fullest extent permitted by law, excluded from the contract with the Buyer. 2.3.1 nothing in these conditions excludes or limits the liability of the Company; 2.3.1 for death or personal injury caused by the Company's negligence; 2.3.2 under both UK law; 2.3.3 for any matter which it would be illegal for the Company to exclude or attempt to exclude its liability; or 2.3.4 for fraud or fraudulent misrepresentation. 2.4 Subject to the above Condition 2.3: 2.4.1 the Company's total liability in contract, (including without limitation negligence or breach of statutory duty), misrepresentation, restitution or otherwise, arising in connection with the performance or contemplated performance of the contract with the Buyer or (without limitation) in respect of the Goods shall be limited to the original purchase; and 2.4.2 the Company shall not be liable to the Buyer for any pure economic loss, loss of profits, loss of business, loss of contracts, damage to property, depletion of goodwill or otherwise, in each case whether direct, indirect, or consequential, or any claims for consequential whatsoever (however caused) which arise out of or in connection with the contract with the Buyer or (without limitation) the Goods.

**3: THIRD PARTY RIGHTS** 3.1 No term of any Contract formed between the Buyer and the Company shall be enforceable by virtue of the Contracts (Rights of Third Parties) Act 1999 by any person that is not a party to it.

**4: APPLICABLE LAW** 4.1 Each of (a) the sale of the Goods to the Buyer, (b) these conditions, and (c) any disputes or claims arising there from or in connection therewith shall be governed by and construed in accordance with the law of England; and the Buyer and the Company irrevocably agree that the Courts of England have exclusively jurisdiction to settle any dispute or claim that arises out of or in connection with the foregoing.

**5: GREY MARKET INTERNET POLICY** 5.1 Grey marketed products continue to be a threat to our worldwide distribution and dealer network. In order to proactively discourage this activity by Internet resellers of our product, UWL will not honor the warranty of products purchased via the grey market through internet resellers. The following notice is stated on UWL's warranty cards, website and all internet sellers will be required to post the same notice. **WARRANTY NOTIFICATION:** UWL products purchased by an end-user from a United States dealer via the Internet are covered by this warranty, only if the products are delivered and installed within the United States. The warranty is void if the product is delivered or installed outside the United States. Proof of purchase and installation will be required. Product installed by OEM will be warranted when shipped as part of a new boat package.

**6: MAKING A CLAIM** 6.1 Irrespective of how the products were fitted or by whom, if you discover that there may be a problem with the products you must notify either your local dealer or UWL within 14 days. 6.1.1 When you discover a problem, we ask that the products are not used until they are fixed. This will minimize any further damage. We recommend the product be disconnected from its power source to prevent accidental use and covering any open connections, of the with an electrically safe and waterproof solution to prevent water entering the cable or product. 6.1.2 If a claim is accepted the part will be replaced on a "like for like basis". No refunds will be given. 6.1.3 If you require a part urgently from us, you would be required to purchase a new one from us. You then have a maximum of 30 days to return the faulty part to us. We will investigate and if the product has a problem due to our manufacturing, we will provide a full refund. If you do not think that you can return the part to us within the 30 days please contact the Service Manager. If the product is not returned within the time limit without speaking to the Service Manager to obtain an extension to the 30 days, the claim will be closed and no refund given. 6.1.4 If we are unable to find a problem with the part, we will inform you of the outcome. We can provide guidance to possible reasons for the fault. UWL is not liable for or can fix problems with equipment & installations that are not purchased from UWL. The returned product can be returned to you at your request. 6.1.5 If you feel unhappy with any part of the process of claiming please let us know. 6.1.6 Please take pictures at every stage of the process. Claims sent without pictures will be automatically rejected until photographs of the lights and area it is installed in are supplied. 6.2 Products supplied and fitted by a dealer: 6.2.1 If you had the products installed by one of our dealers, we ask that you contact them and ask that they check the installation and establish the cause of the problem prior to making a claim. If you are not local to the installer, please visit our website ([www.underwaterlights.com](http://www.underwaterlights.com)) to find the authorized dealer closest to you. Many problems are due to environmental contamination, issues with the installation or electrical issues which are external to the lighting system and can be resolved without the need for the removal of the product or initiation of the warranty procedure. An example for environmental contamination, make sure your lenses are free of growth when conducting your tests. 6.2.2 Locate your original purchase invoice for the products showing product purchased within last 2 years and contact the dealer you purchased the products and / or who fitted them. 6.2.3 Your dealer will contact us and together we will resolve your issues and together we will investigate the part. 6.2.4 If the problem is found not to be due to the manufacture of the product, repair or replacement will fall outside of this warranty coverage and the buyer will be liable for all costs. 6.2.5 If you require a part urgently from us, you would be required to purchase a new one from us. You then have a maximum of 30 days to return the faulty part to us. We will investigate and if the product has a problem due to our manufacturing, we will provide a full refund. If you do not think that you can return the part to us within the 30 days please contact the Service Manager. If the product is not returned within the time limit without speaking to the Service Manager to obtain an extension to the 30 days, the claim will be closed and no refund given. 6.2.6 If we are unable to find a problem with the part, we will inform you of the outcome. We can provide guidance to possible reasons for the fault. UWL is not liable for or can fix problems with equipment & installations that are not purchased from UWL. The returned product can be returned to you at your request. 6.3 Products supplied by a dealer but fitted by the Buyer: 6.3.1 If you installed the products yourself, before making contact we ask that you follow the troubleshooting chart for your product. When following the appropriate troubleshooting

ing chart, it is helpful to complete the appropriate warranty claim information sheet. Copies can be found in the troubleshooting section of the manual included with the product or alternatively it can be download from our website. 6.3.2 If after following the troubleshooting guide, you still believe that the problem still exists with our product you will need to contact the dealer that you purchased the product(s) from. If you are unable to do this you may contact any dealer / distributor in your local area (a list can be obtained either from our website ([www.underwaterlights.com](http://www.underwaterlights.com)) or by contacting our Head Office. 6.3.3 You will be required to provide the information recorded on the warranty claim information sheet and have the copy of your purchase invoice for the products along with pictures of the damaged unit and area it is located in. 6.3.4 When contacting your dealer you will be asked for the details from the warranty claim information sheet. During this time the dealer will complete the appropriate warranty claim form that will be returned along with the part. 6.3.5 When you have made contact with the dealer please follow their instructions. 6.3.6 If you are unable to contact a dealer you may wish to contact UWL directly. To contact the Service Manager either call our UK office on +44 (0) 1732 455753 or email [uw@underwaterlights.com](mailto:uw@underwaterlights.com). 6.4 If you are unable to locate a dealer close by or the units were purchased directly from UWL: 6.4.1 Before making contact we ask that you follow the troubleshooting chart for your product, when following the appropriate troubleshooting chart we find that it is helpful to complete the appropriate warranty claim information sheet. Copies can be found in the troubleshooting section of the manual included with the product or alternatively it can be download from our website ([www.underwaterlights.com](http://www.underwaterlights.com)). 6.4.2 If after following the troubleshooting guide, you still believe that the problem still exists with our product you will need to contact the Service Manager at UWL. Please contact the Warranty Department at our UK Head Office at: Underwater Lights Limited The Great Dunton Forge, London Road, Dunton Green, Kent, United Kingdom, TN13 2TD Tel: +44 (0) 1732 455753 Fax: +44 (0) 1732 743233 Email [uw@underwaterlights.com](mailto:uw@underwaterlights.com) 6.4.3 When you make initial contact you will be required to provide the information recorded on the warranty claim information sheet and have the copy of your purchase invoice for the products. You will also be required to send photographs of the unit along with photographs of the area which the units are installed. The Service team will review with you your problem and where possible advise on any further checks that may be required. If the test results show you do have a problem, you will be issued with a Warranty Claim number. The Claim number (WC#) is unique to your claim and should be used in all correspondence and attached to the returned parts. 6.4.4 You will be required to return the faulty part with the attached WC number to the address provided to you. 6.4.2. The return of the part is at your expense. 6.4.5 The part will be investigated and if the cause is established to be a manufacturing error with the components is found we will return a replacement part to you. 6.4.6 If you require a part urgently from us, you would be required to purchase a new one from us. You then have a maximum of 30 days to return the faulty part to us. We will investigate and if the product has a problem due to our manufacturing, we will provide a full refund. If you do not think that you can return the part to us within the 30 days please contact the Service Manager. If the product is not returned within the time limit without speaking to the Service Manager to obtain an extension to the 30 days, the claim will be closed and no refund given. 6.4.7 If we are unable to find a problem with the part, we will inform you of the outcome. We can provide guidance to possible reasons for the fault. UWL is not liable for or can fix problems with equipment & installations that are not purchased from UWL. The returned product can be returned to you at your request.

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VALID FROM MAY 2025

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