



***Instructions for use
OMD Technology 4000w HMI
Underwater Light***



CE **COMPLIES WITH IEC60598.2.17
APPROVAL NO. Q04572
MADE IN AUSTRALIA**

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1. ELECTRICAL HAZARD WARNING SIGN



Parts of this instruction manual are marked with the above-listed sign. This symbol denotes electrical hazard. If not adhered to, there is a danger of property damages, physical damages or death.

2. SAFETY HAZARD WARNING SIGN



Parts of this instruction manual are marked with the above-listed sign. This symbol denotes a warning where a hazard may exist. If not adhered to, there is a danger of property damages, physical damages or death.

3. APPLICATIONS

This lamp is designed for underwater use.


4. GUARANTEE

Provided the following instructions for the use, care and maintenance of the OMD 4000w HMI light are adhered to, OMD Technology will guarantee all mechanical parts made from steel, aluminium, glass and plastic. Tungsten, Fluorescent, HMI bulbs and o-rings are consumable items and are not covered by the guarantee. The removal or tightening of screws or the tampering of the product by unauthorised personnel will void the guarantee.

5. ARTICLE DESCRIPTION

OMD TECHNOLOGY 4000 WATT UNDERWATER HMI

PHOTO SHOP PHOTO

- A. HIGH TEMPERATURE FRONT GLASS 
Do not touch glass during or after operation of the light. The glass reaches high temperatures and can cause skin burns if touched. If the glass is cracked or damaged, cease use and contact your supplier.
- B. FRONT HOUSING RING
4 x 5mm screws are located in the top of this ring. These are used to attach the separate reflector. Refer to instructions on page 7.
- C. MID-FRONT HOUSING RING
- D. MAIN HOUSING BODY
- E. 8 PIN UNDERWATER BULKHEAD PLUG
Refer to Page 5-8 for 'Preparation for use' and page 9 of Quick guide to 8 pin connector
- F. RETAINING COLLAR
Refer to Page 5-8 for 'Preparation for use' and page 9 of Quick guide to 8 pin connector
- G. PULL DOWN CLIP
Stainless steel clips should all be in the lock-down position. Simply lock back down if pulled up by fouling or transit.
- H. BAIL ARM MOUNTING CLAMP
- I. BAIL ARM
- J. LOCK OFF HANDLE
Turn anti-clockwise to unlock bail arm. Do not unwind handle completely off.
- K. RECEIVER
Designed for use with industry-standard 5/8 spigots.

6. TECHNICAL SPECIFICATIONS

OPERATING SPECIFICATIONS

4000W HMI

 **COMPLIES WITH IEC60598.2.17**
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Voltage: 240V / 110 VAC AC
Colour Temp: 5600 degrees K
Depth: 100ft (30 metres)
Duty: Underwater only
Earth leakage: Clipsal / OMD Technology, 230-240 V 32A 2400W max,
10mA residual trip

4000w HMI
Underwater Only.

WEIGHT

Weight out of Water: 10kgs (22lbs)
Weight In Water: 1350gms (3lb)

FREIGHTING SPECIFICATIONS

Light Case

Weight: 25kg / 55lbs
Dimensions: 80cm L x 52.7cm W x 29.2cm D
Contents: 1 x OMD 4k head

Cable Case

Weight: 17kg / 37lbs
Dimensions: 65cm L x 42cm W x 28cm D
Contents: 1 x 30m OMD 4k cable
1 x OMD 4k ELB switch
1 x OMD Ballast to Header cable adapter



7. PREPARATION FOR USE



WARNING

If damaged during transportation, leakage can occur. Please check visually that there is no damage to the front glass, o-rings and electrical plugs and that the stainless clips are in the lock-down position.

BEFORE USE

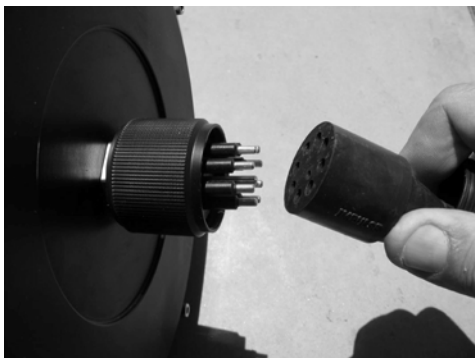
1. Remove light from road case



2. Check for damage during transportation – # Note warning above
3. Check that globe is central to the reflector. If not contact your supplier



4. Plug together the lamp and header cable and secure locking collar



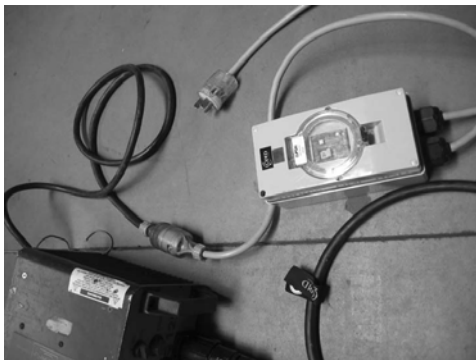
5. Plug together the header cable and ballast adapter cable and secure locking collar



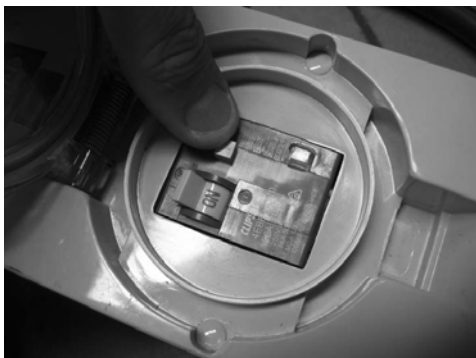
6. Plug together the ballast cable to the supplied ballast



7. Plug together the ballast to the supplied RCD/MCB box

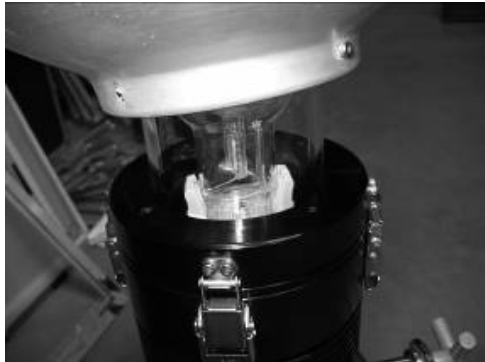


8. Test RCD box by pressing the test button





9. To fit supplied par reflector – if required



9A. Carefully place the reflector over the glass and seat.



9B. Using a Phillips head screw driver do up the screws.



9C. Ensure the screws are adjusted evenly and the reflector is sitting flush with the bracket ring.

The light is now ready for operation. Refer to applications on page 2



8. QUICK GUIDE TO 8-PIN CONNECTORS

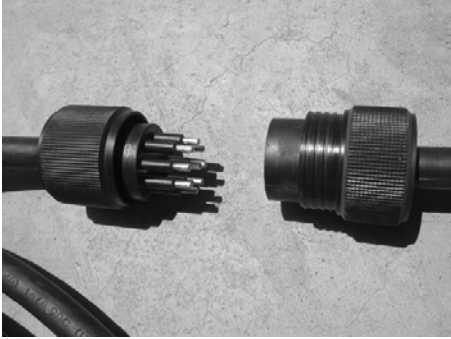
Assembling 8-pin Connectors



Female eight-pin connector.



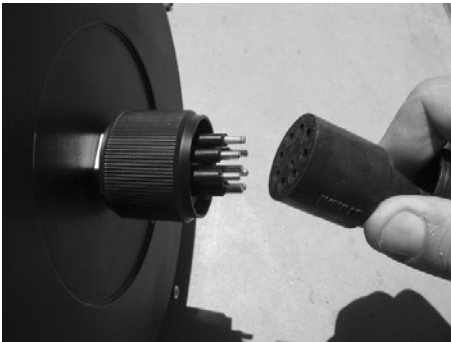
Male eight-pin connector with stainless steel locator pin.



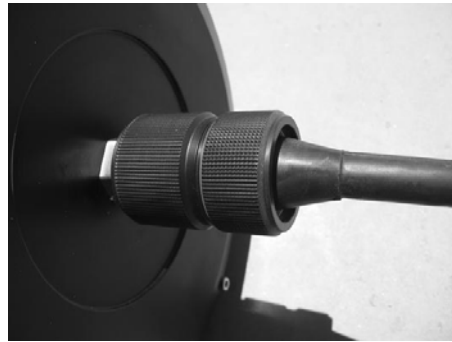
Find correct position by locating stainless steel locator pin. Push firmly to join connection. A small amount of Silicone grease or spray (ONLY) can aid the process.



Ensure locking collars are secure. DO NOT USE THESE TO PULL PLUG TOGETHER.



All eight-pin plugs are joined in the same manner (cable-to-cable, cable-to-light-fixture and cable-to-earth-leakage device). Push firmly to join connection. A small amount of Silicone grease or spray (ONLY) can aid the process.



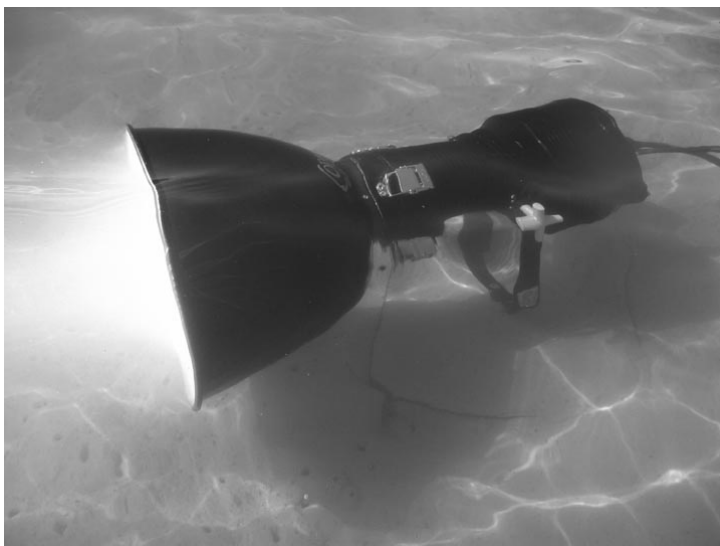
Ensure locking collars are secure. DO NOT USE THESE TO PULL PLUG TOGETHER.



When using OMD HMI lighting equipment, always ensure that the supplied earth leakage device is connected in-line – between the power source and the Ballast. Always test the earth leakage before use by pressing the test button located next to the main switch in the earth leakage device labelled 'TEST'. The red LCD light will be illuminated when power is running through the box.



WARNING: ALL LIGHTS MUST ONLY BE OPERATED WITH EARTH LEAKAGE INLINE.



9. USING THE LIGHT UNDERWATER

1. The light can be hand-held or placed on a lighting stand. The 5/8 receiver is designed to accommodate many different types of spigots.
2. Be careful not to pull on the electrical cables. A simple short piece of rope tying the cable to the bail arm can help in many situations. *Please note:* Additional cable maybe required in strong currents. Talk to your supplier about the intended use of the light.
3. Always allow no less than 5 minutes for the light to cool in the water before removal.
4. Allow at least 1 minute before hot re-striking the light. Thankyou.



Do not place the light less than 1 metre away from an object. Do not stand the light down on the lens brackets onto a surface when on. Heat can reflect back into the light causing damage or possible injury or death.



Do not touch the protective glass tube at any stage during use and after. Burning hazards may result.



***The light is depth rated to a maximum of 30 metres (100ft)
Do not exceed this depth.***



Water inside the housing (especially sea water) can have fatal consequences due to conduction of electricity and build up of pressure from the vaporising of water to steam. Therefore, during the use of the light, please check repeatedly, whether water has found its way inside. Do this by holding the light on a slant pointing down, with the ray of light pointing away from the body. Then look at the front glass from the side. If there is water inside the housing, cease operation immediately by turning off the light and returning to the surface. Please allow the light to cool for not less than 5 minutes before removing it from the water.

11. AFTER USE

1. Allow light to cool for no less than 5 minutes in the water or with running water over the entire light head.
2. Rinse in fresh water.
3. Dry light adequately before placing it back into the road case.



Do not pack light head in roadcase if hot or warm. Burning hazards from the packing material may result.

12. TRANSPORT

1. Ensure that light head is placed back into the supplied road case as it arrived.
2. Take care that the stainless steel receiver (Item M - page 3) does not foul the sealing of the road case.
3. Ensure that all locking clips are in the lock-down (secured) position.

13. TROUBLESHOOTING

Problem	Cause	Action to be taken
Condensation on glass	<ol style="list-style-type: none"> 1. Small amount of moisture in ambient air when light was sealed. 2. Water has entered the light housing (o-ring defect or contaminated) 	<ol style="list-style-type: none"> 1. This may occur only when the light is off or in the process of cooling. Operation is not effected. 2. If you notice condensation during operation of the light. Stop use immediately and cool the light in water and remove. Contact your supplier.
Water in housing	<ol style="list-style-type: none"> 1. Defective o-ring or contaminated 2. Glass has cracked 	<ol style="list-style-type: none"> 1. Stop use immediately and cool light in the water and remove. Contact your supplier. 2. Be careful of broken glass. Place light back into roadcase. Contact your supplier.
Lamp does not turn ON with no tripping from ELCB unit	<ol style="list-style-type: none"> 1. Power not ON 2. Bulb fault 3. Connectors not joined together 	<ol style="list-style-type: none"> 1. Check power is turned on at the ELCB unit supplied. 2. Check state of bulb 3. Check all connectors are joined together with locking collars tight.
ELCB trips when light is turned ON or in use.	<ol style="list-style-type: none"> 1. Connector is not joined or in the wrong configuration. 2. Water in electrical connectors. 3. Cable has been damaged 4. Water in the light housing 5. Ballast is faulty 6. Light Head is faulty 	<ol style="list-style-type: none"> 1. Make sure firstly that the connectors have be mated correctly (refer to page 9) Re-connect and ensure locking collars have been tightened. 2. Disassemble the connectors and check to make sure there is no water present. Dry and re-assemble. A small about of silicone grease will not affect the electrical connection. 3. Cable may have been damaged while in use. Check the length of all cables. 4. Refer to above (Water in housing) 5. Remove ballast from set-up and contact your supplier. 6. Remove from water and contact your supplier.



Water inside the housing (especially sea water) can have fatal consequences due to conduction of electrically and build up of pressure from the vaporizing of water to steam. Therefore, during the use of the light please check repeatedly, whether water has found its way inside. Do this by holding the light on a slant pointing down, thus the ray of light pointing away from the body. Then look at the front glass from the side. If there is water inside the housing cease operation immediately by turning off the light and returning to the surface. Please allow the light to cool for not less than 5minutes before removing it from the water.

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