



***Instructions for use  
OMD Technology MR-16  
Underwater & Wet-weather Light***



**CE**  **COMPLIES WITH IEC60598-2-1, IEC 60598-1, IEC60598-2-4, IEC 60598-2-18  
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.

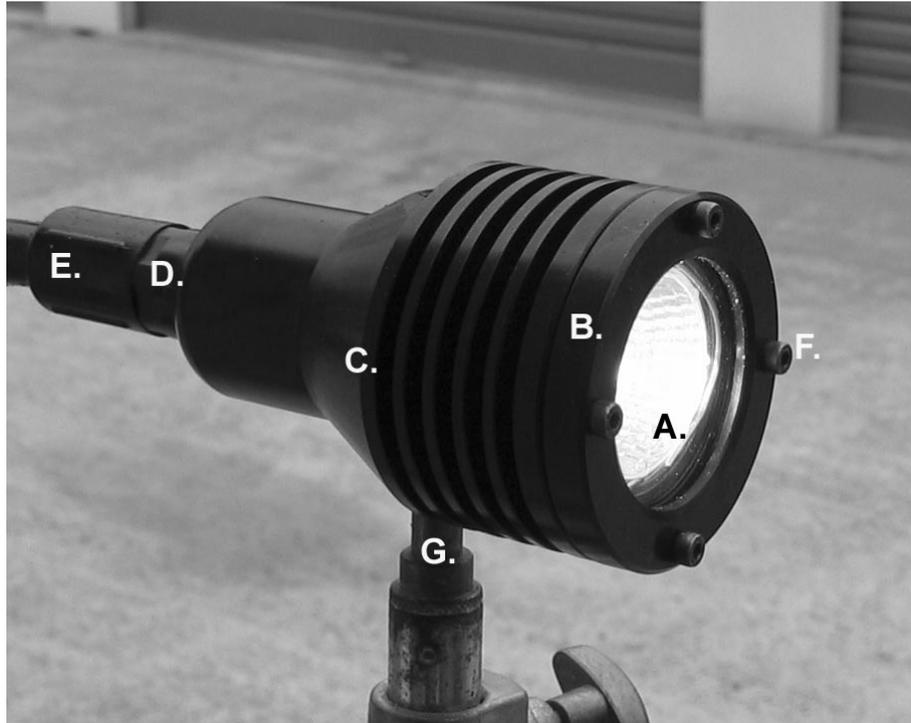
### 3. APPLICATIONS

This lamp is designed predominantly for underwater use but can be used in wet-weather applications. However if you are using it in a hand-held application, you may need to cool the light with running water. This will allow the light to stay cool enough for safe handling. The glass is a high temp thermal shock grade and will not break on contact with water at full operating temperature.

### 4. GUARANTEE

Provided the following instructions for the use, care and maintenance of the OMD MR-16 tungsten 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 MR-16 UNDERWATER LIGHT**



- A. HIGH TEMPERATURE PROTECTIVE 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
- C. MAIN HOUSING BODY
- D. 3 PIN UNDERWATER BULKHEAD PLUG  
Refer to Page 5-6 for 'Preparation for use' and page 7 of Quick guide to 3 pin connectors
- E. RETAINING COLLAR  
Refer to Page 5-6 for 'Preparation for use' and page 7 of Quick guide to 3 pin connectors
- F. 4 x 4mm Stainless steel screws use to pull down front ring.
- G. 5/8 spigot screws directly into the Main body housing (Item C)

## 6. TECHNICAL SPECIFICATIONS

### OPERATING SPECIFICATIONS

#### OMD MR-16

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Voltage:	240V / 110 VAC AC
Colour Temp:	Tungsten 50w    3200 degrees K Red 50w            3200 degrees K Fluorescents 7w   4000K degrees K
Depth:	100ft (30 metres)
Duty:	Underwater and Wet-Weather
Earth leakage:	Clipsal / OMD Technology, 230-240 V 10A 2400W max, 10mA residual trip

### WEIGHT

Weight out of Water:	1kgs (3.3lbs)
Weight In Water:	450gms (1lb)

### FREIGHTING SPECIFICATIONS

#### Light Case (contains 6 heads)

Weight:	12kg / 26lbs
Dimensions:	60cm L x 50cm W x 20cm D
Contents:	6 x OMD MR-16 Heads

#### Cable Case

Weight:	11.6kg / 22lbs
Dimensions:	65cm L x 42cm W x 28cm D
Contents:	6 x 30m OMD MR-16 cable 6 x OMD MR-16 ELCB switch



## 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.*

### **BEFORE USE**

1. Remove light from road case.



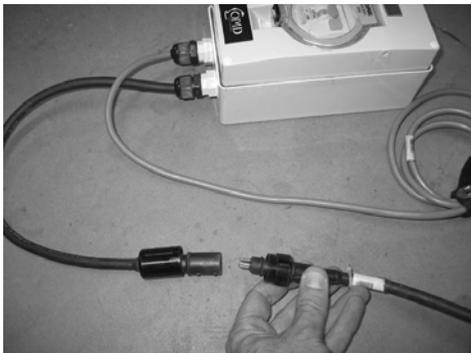
2. Check for damage during transportation – # Note warning above.

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



4. Plug together the header cable and ELCB box and secure locking collar.

PLEASE NOTE – OMD Technology supplies two versions of ELCB units to suit up to 1000w tungsten lights. All are 10amp 10mA ELCB and connect in the same manner.

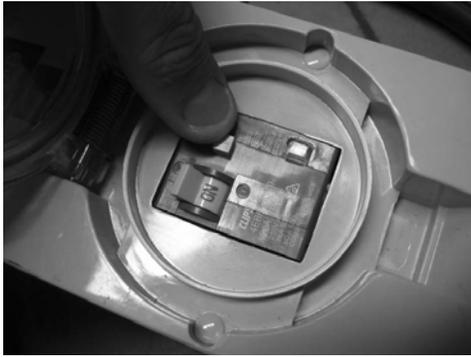


1 outlet (White)



2 outlet (Orange)

5. Test RCD box by pressing the test button



6. Screw in 5/8 spigot



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



## Assembling Three-pin Connectors



Attach three-pin connector header cable to light head, by aligning black rubber dots on female with largest brass pin on male.



Push firmly to join connection. You may hear a small popping sound when connectors join correctly.



Ensure locking collar is secure.



When connecting three-pin cables together, join by aligning rubber dots.



Ensure locking collars are secure.



All three-pin plugs connect in the same manner, including the earth leakage device.



**When using OMD lighting equipment, always ensure that the supplied earth leakage device is connected. 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.



***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. Heat can reflect back into the light causing damage or possible injury or death.***



***Do not touch the protective glass 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.***



## 10. USING THE LIGHT OUT OF THE WATER (WET-WEATHER USE)

1. The OMD MR-16 light can be used out of the water.
2. Take care when using the light in hand-held application as the light will get hot if not cooled with water.



***If using in a hand-held application, you may need to cool the light with running water. This will allow the light to stay cool enough for safe handling. The glass is a high temp thermal shock grade and will not break on contact with water at full operating temperature.***

## 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.
4. Remove 5/8 spigot from light and place back in 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. Ensure you have removed the 5/8 spigot from the light head.

### 13. TROUBLESHOOTING

Problem	Cause	Action to be taken
<b>Condensation on glass</b>	1. Small amount of moisture in ambient air when light was sealed.	1. This may occur only when the light is off or in the process of cooling. Operation is not effected.
	2. Water has entered the light housing (o-ring defect or contaminated)	2. If you notice condensation during operation of the light. Stop use immediately, isolate electrically and cool the light in the water before removal. Contact your supplier.
<b>Water in housing</b>	3. Defective o-ring or contaminated	3. Stop use immediately, isolate electrically and cool light in the water then remove. Contact your supplier.
	4. Glass has cracked	4. Stop use immediately, isolate electrically and cool light in the water then remove. Be careful of broken glass. Place light back into road case. Contact your supplier.
<b>Lamp does not turn ON with no tripping from ELCB unit</b>	5. Power not ON	5. Check power is turned on at the ELCB unit supplied.
	6. Bulb fault.	6. Check state of bulb.
	7. Connectors not joined together.	7. Check all connectors are joined together with locking collars tight.
<b>ELCB trips when light is turned ON or in use.</b>	8. Connector is not joined or in the wrong configuration.	8. Isolate electrically. Make sure that the connectors have be mated correctly (refer to page 7) Re-connect and ensure locking collars have been tightened.
	9. Water in electrical connectors.	9. Isolate electrically. 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.
	10. Cable has been damaged	10. Cable may have been damaged while in use. Check the length of all cables.
	11. Water in the light housing	11. Refer to above (Water in housing)
	12. Light head is faulty	12. 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.***

## 14. OMD TECHNOLOGY – AGENTS & CONTACTS

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