








# FOCUS SEA CAGE LIGHT SYSTEM

## MAINTENANCE SUMMARY

Regular maintenance is an important contributor to user safety, normal operation and to prolonging the life of the Product. Ensure you follow your workplace safety procedures and that you have read and understood the Product manual before commencing any maintenance tasks. Observe the following warnings.

WARNING	HAZARD	CONSEQUENCE	AVOIDANCE
 DANGER	Risk of Electric Shock	Death, Permanent or Severe Injury	ONLY Authorised Service Personnel should carry out maintenance on Planet Lighting products. Planet Lighting disclaims all liability for any injury to persons or damage to things caused by the Product having been installed or maintained by persons who are not "Authorised Service Personnel".
 DANGER	Risk of Electric Shock	Death, Permanent or Severe Injury	Turn off the light BEFORE commencing any maintenance. The electrical system SHOULD NOT be powered when divers are in the water. DO NOT 'HOT SWAP' LIGHTS. Ensure the Uno housing is completely POWERED OFF before swapping Focus lights or checking for connector issues. If you are concerned about startling fish, a Manual soft-stop should be used before a light swap.
 DANGER	Risk of Electric Shock	Death, Permanent or Severe Injury	POWER OFF equipment immediately if signs of damage. If equipment is suspected damaged by machinery or force, operators should take steps to ensure the system is completely powered off before commencing salvage, fault finding or repair actions.
 DANGER	Risk of Fire and Burns	Death, Permanent or Severe Injury, and Product Failure	DO NOT run lights out-of-water under any circumstances. The Focus sea cage light is designed to run UNDERWATER ONLY. Open water under 20°C is required to maintain a compliant running temperature. Operation out-of-water may lead to BURNS or PERMANENT INJURY. Operation out-of-water can also damage the product and VOID WARRANTY. Ensure the Focus light is submerged before operation.
 DANGER	Risk of Fire and Burns	Death, Permanent or Severe Injury, and Product Failure	Ingress Protection Caps (IPC) are installed on the Product to protect outputs from dust and water ingress. Plug Board and DC outputs not in use MUST have Ingress Protection Caps securely fitted. Leaking caps can cause BURNS, FIRE and product DAMAGE.
 DANGER	Eye Damage, Blinding Light	Permanent Eye Damage.	DO NOT look into the light fitting when powered. The LED emits extremely bright light which can cause damage to the retina.

### General Warnings

 CAUTION	<b>DO NOT use Abrasive or Harmful Cleaning Agents</b>	Do not use abrasive products, petrol, paint thinners, alkaline detergent, acidic cleaning agents or aldehydes. Disinfectants/cleaning agents may contain substances harmful to health. Use only as recommended by health authorities and follow the manufacturer's instructions carefully.
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## Maintenance Task Schedule

The following periodic maintenance tasks are recommended.

### Monthly Maintenance

TASK	DESCRIPTION	ACTION
UNO HOUSING AND PLUG BOARD		
<b>Check Ingress Protection Caps (IPCs)</b>	Unused sockets and connectors must have their caps <b>tightly</b> fitted to prevent water ingress. Replace cap if damaged.	Check / replace
CABLES, POWER AND CONNECTORS		
<b>Check for cable damage</b>	Check the full length of cable for kinks, nicks, or cuts. Replace if damaged.	Check / replace
LIGHT FITTINGS		
<b>Check biofouling</b>	Check for build up of biofouling on aluminium light body. Heavy biofouling may reduce cooling and lifetime of the LED.	Check / clean
<b>Check for water ingress</b>	Visually inspect the lens, looking for signs of water ingress.	Contact supplier
<b>Check sacrificial anodes</b>	Check the outer surface of the anode for evidence of corrosion. Replace anode if there is significant loss of material.	Check / replace

### Quarterly Maintenance (Every 3 Months)

TASK	DESCRIPTION	FREQUENCY
CABLES, POWER AND CONNECTORS MAINTENANCE		
<b>Check contacts for corrosion</b>	Remove the plug from the socket and inspect the contact pins for signs of corrosion. If corroded or damaged, replace the unit.	Check / replace unit
<b>Check cable install</b>	Check that the cable is installed as per the original plan. Check that all ties are still in place.	Improve cable management on site
LIGHT FITTINGS		
<b>Check mineral build up</b>	Mineral build up (e.g. salt) around the cable gland, front plate or lens should be cleaned away to prevent minerals working into seals. Take care not to damage parts when cleaning.	Clean
<b>Check corrosion on body</b>	If anodes are lost, corrosion may impact the body of the luminaire. Replace anodes immediately to prevent further damage. Excess pitting due to corrosion around the seals can cause water ingress. Away from seals, moderate corrosion will not reduce the performance of the product.	Check / replace

