

# AQUARAY® Technical Specification

**Product Name:** AquaBeam 1500 XG Ultima

**Technology:** Solid State Lighting - 10 x CREE®XP-G R+ PowerLEDs driven at 700mA (upgradeable to 1000mA)

**Application:** MARINE - suitable for marine aquariums. (Also suitable for planted/tropical/coldwater aquariums).

**Electrical:** Mains Supply - 50-60Hz. 100-240VAC. 0.3A  
Luminaire Supply - 16VDC max. 0.7A  
Total Power Consumption - 23W

## KEY FEATURES

### DESIGN

**Footprint Profile**  
**Casing Construction**  
**Thermal Management**  
**Mounting**  
**Power Supply**

Compact and space-saving  
Ultra slim-line casing  
Water-proof, ABS and acrylic  
Passive - no fan required  
AquaRay MMS compatible  
Separate DC power supply

198 x 198mm  
40mm high  
Shockproof. IP67  
Profiled aluminium  
Patented  
Max 24VDC

### Advantages

**Suitable for use with nano tanks**  
**Suitable for fitting in aquarium hoods**  
**Corrosion proof and impact resistant**  
**Cool running and low heat transfer to water**  
**Flexible mounting and fixing options**  
**Ultra safe and silent operation**

Compared with  
AquaBeam 1000?

**equivalent**  
**equivalent**  
**equivalent**  
**equivalent**  
**equivalent**

### QUANTITY OF LIGHT

**Total Luminous Flux (lumens)**  
**Light Spread**  
**Digital Control\***  
**Usage**

High brightness  
Wide angle  
Timing/dimming  
TMC recommendation

700mA-approx 1850 lm  
1000mA-approx 1970 lm  
120°  
Full function/down to 1%  
1 unit per 3.5-4ft<sup>2</sup>  
(0.325-0.372m<sup>2</sup>)\*\*

**Suitable for all marine set ups**  
**Suitable for general illumination**  
**Sunrise/sunset/moonlight in one unit**  
**Covers a greater area**

**43% higher output**  
**52% higher output**  
**40° wider angle**  
**equivalent**  
**33% more coverage**

\* with AquaRay Control or PowerControl \*\*dependent on height from water surface

### QUALITY OF LIGHT

**Colour Temperature (CT)**  
**Spectral Quality**  
**Colour Rendition Index (CRI)**  
**UV Emittance from Lamp**

Ocean White  
Emits light at ALL wavelengths in visible spectrum  
High CRI  
No harmful UV light emitted by lamp

9000K  
405nm-750nm  
80+  
0mJ/cm<sup>2</sup>

**Suitable for marines**  
**Full spectrum light for plants/zooxanthellae**  
**Renders colours close to nature**  
**No UV shielding required**

**new**  
**equivalent**  
**equivalent**

### COST OF OPERATION

**Lumen and Spectral Maintenance Efficiency**  
**Total Cost of Ownership (5 years)\*\*\***

Long, useable lamp life with no visible spectral shift  
Super efficient light source  
Affordable and low running costs

50,000 hrs/10 yrs  
700mA-81 lm/w  
1000mA-60 lm/w  
1.5 x purchase cost

**No need for lamp replacements**  
**Make the most of your electricity!**  
**Low cost of ownership**

**equivalent**  
**50% more efficient**  
**10% more efficient**  
**equivalent**

\*\*\* Includes typical purchase price, replacement lamp costs and electricity at £0.10 per kWh assuming 5000 running hours per year

### ENVIRONMENTAL

**Presence of Mercury**  
**Carbon Footprint**

No mercury present in lamp or fitting  
Low carbon emissions induced by use

0 mg HG  
65 CO<sub>2</sub> kg/yr

**Safer for the environment**  
**Less contribution to "greenhouse" gases**

**equivalent**  
**equivalent**