



## Submarine Manufacturing & Products Limited

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Blackpool Road, Newton, Preston, Lancashire, United Kingdom PR4 3RE

### PRODUCT DATASHEET

#### BIRNS XT120



#### THIS PRODUCT HAS THE FOLLOWING OPTIONS:

No product options are available.

#### OVERVIEW

The 5,000 lumen BIRNS XT120, BIRNS Model 5651, is a powerful, rugged, low profile (76mm) 120 or 240 VAC or VDC underwater directional light, providing brilliant illumination for vehicle and camera work.



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### DESCRIPTION

The 5,000 lumen BIRNS XT120, BIRNS Model 5651, is a powerful, rugged, low profile (76mm) 120 or 240 VAC or VDC underwater directional light, providing brilliant illumination for vehicle and camera work. It's lightweight and hydrodynamic, to significantly reduce drag, and relamps in under 30 seconds without being removed from the vehicle.

### FEATURES

- 5,000 lumens
- Voltage flexibility: 120 or 240 VAC or VDC
- Small size (76mm / 3.0" OD)
- 2461m depth rating
- Fast, easy wire-free maintenance
- 30-second tool-free relamping
- 3000k brilliant white light
- Tungsten-halogen, commercially-available lamps
- No warm-up time; no ballast needed
- Options include 8 lenses and 3 mounts
- Commercial-grade Class A GFCI (ELCB) compatibility

### SPECIFICATION

#### PHYSICAL

- Length** - 13.5 cm (5.3 in.)
- Width** - 11.7 cm (4.6 in.) with yoke 7.6 cm (3.0 in.) without yoke
- Height** - 11.4 cm (4.5 in.) with yoke 7.6 cm (3.0 in.) without yoke
- Weight in Air** - 0.5 kg (1.1 lbs.) with yoke 0.45 kg (1.0 lbs.) without yoke
- Weight in Water** - 0.14 kg (5 oz) with yoke 0.11 kg (4 oz) without yoke

#### LIGHTING/PHOTOMETRIC

- Lamp Type** - Incandescent Tungsten-Halogen
- Time To Full Brightness** - <1 second after application of power
- Operating Position** - Universal (i.e. any position)
- Rated Average Lifetime** - 2,000 hours (250w lamp)
- Dimming Range** - 0-100%
- Light Output** - 5,000 initial lumens (250w lamp)
- Correlated Color Temp** - 3000K, depending on installed lamp Beam Angle (to 50% output): 52° (clear lens) or 74° (frosted lens)



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### ENVIRONMENTAL

**Protection Level** - IP 68

**Depth Rating** - thin lens: 1800m (5,900 FSW) + 100% safety margin thick lens: 2461m (11,200 FSW) + 100% safety margin

**Expected Radiation Tolerance** - 105 Gy (107 R)

### ELECTRICAL

**Input Voltage** - 110  $\hat{A}\pm 10$  or 220  $\hat{A}\pm 20$  VAC/VDC, depending on installed lamp

**Supply Frequency** - 60 or 50 Hz

**Cable Size** - 16 AWG type SO, 3 conductor (standard)

**Cable Current Rating** - 12 amperes maximum

**Cable Voltage Rating** - 600 volts maximum

**Nominal Lamp Wattage** - 250 Watts (default); 100 and 150 Watts (available)

### MATERIALS

**All Housing Parts** - 6061 Aluminum, hard black anodized

**Yoke Frame And Base** - Stainless steel type 304, electropolished

**All Hardware** - Stainless steel type 18-8

**Lens** - Tempered borosilicate glass

**Seals** - BUNA N (standard), other materials available

**Connector** - Glass-reinforced epoxy (GRE)

**Connector Pins** - Brass 360 per ASTM B16, gold-plated per MIL-G-45204

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### ORDER THIS PRODUCT

To order this product or to request a price contact our UK sales team on  
**+44 (0)1772 687775**

Alternatively you can place a quote request through our website

<http://www.smp-ltd.co.uk> or send an email to [sales@smp-ltd.co.uk](mailto:sales@smp-ltd.co.uk)