

APHOS 32 STROBE LIGHT

Subsea LED Lighting - AC



Overview

The Cathx Ocean APHOS 32 Strobe light is an Ultra High output LED-based Strobe light. The unique Cathx design of the Strobe light means it can provide over 150,000 lumen output power up to 10 millisecond pulse widths with low continuous power consumption from vehicle. The power bottle spreads out the instantaneous power delivered to the LEDs as a low power requirement from vehicle. This is achieved using a microprocessor controlled capacitor charge and discharge system within the power bottle. When used in conjunction with the Cathx Stills Camera these fast ultra bright exposures allow users to extend imaging range and vehicle speed. It also extends the highest quality still imaging capabilities to smaller vehicles & AUVs.

Up to 150,000 Lumens

Ballasted power –
>2kW power delivered to LEDs with <100w continuous power consumption from vehicle

Depth Options

4,000m rated (optional 6,500m)

Ideal for Fast Moving Vehicles

Lighting can be synchronized with camera systems to eliminate motion blur by short light pulses.

Customised LED Panel Options

Variety of lighting options to suits the needs of any vehicle or system.

Specifications

Performance

Light Power Output:	Up to 150,000 Lumens (depending on application)
Light Colour Temperature:	5,700°K Standard Colour Temperature
Colour:	White
Beam Angle/Shape:	80° beam angle flood
Strobe Capability:	0.1Hz to 10Hz

Pulse Width:	0.25 to 10ms
Frequency:	0.1 to 10Hz
Trigger Voltage:	3V to 15V DC optically isolated in the light
Minimum Trigger width:	250µsec
Trigger Type:	Rising or Falling edge (Factory set as Rising edge)
Control Options: RS485	Controlled from Cathx Stills Camera via RS485 or from serial terminal

Electrical

Power Consumption (Dependent on application)	Typical example: 3Hz @1ms exposure, RMS power <50W
Operating Voltage:	
150	100-200VDC, 120VAC
300	180-375VDC, 240VAC

Environmental

Depth Rating:	Standard: 4,000m (optional 6,500m)
Operating Temperature:	-10°C to 35°C in water

Mechanical

Housing Material:	Power Bottle: Titanium 6AL-4V LED Panel: Hard Anodized 6082-T6 Alloy
Dimensions:	Power Bottle: 90mm Dia. x 230mm length ex. Connectors LED Panel: 187.5 x 91.8 x 16.5 mm (WxLxH)
Weight:	Power Bottle: In air <2.5kg – In water <1.5kg LED Panel: In air <0.5kg – In water <0.25kg
Connector:	SubConn MCBH8 (male) SubConn BH10 (female)

