

Ballast Strobe Light - Preliminary Overview



Overview

The Cathx Ballast light is a high performance strobe LED light designed for subsea vehicles. This light is ideal for vehicles that capture high resolution stills at ranges of up to 10m at high travel speeds. The Ballast light when used with the Cathx M12 Camera provides a powerful imaging solution for AUVs and ROVs. The low power draw and temperature monitoring capability also make it an ideal lighting solution for sentry and observatory systems.

Performance

- Conservatively at 100% rated strobed led power (9A per LED, 950W panel) -> up to 80k Lumens
- Over driven at 166% rated strobed led power (15A per LED, 1650W panel) -> up to 120k Lumens

Electrical

- Input 18-48Vdc
- Low constant power draw not exceeding 50W (typically <20W for 1-5fps)

Mechanical

- Very high power density in a pressure compensated design light head
- Custom shapes are possible
- All inputs optically isolated.
- Depth Rating to 6000m



Remote ballast bottle

- Budget size 80mmOD X 170mm long
- Available in different forms up to full ocean depth rating.

Control

- Micro processor Controlled with RS485 connectivity.
- Fast ramp up and down or optical square pulse.
- Triggered from camera or other external source
- Temperature monitoring of light panel.
- Dimmable via RS485