

LANTERNFISH

Programmable Battery-Powered Deep-Sea LED Light



Lanternfish is a programmable LED light designed for standalone underwater operation down to 1000m. It includes an integral rechargeable Li-Ion battery pack and control electronics which provide constant current, variable-brightness drive to the main LED, as well as a programmable intervalometer, which allows the user to create pre-set lighting schedules. Using the included Windows-based PC software, Lanternfish's on-board real-time clock is synced with the user's PC clock. Parameters including start time, stop time, on-period, off-period, and brightness level are set by the user. This scheduling functionality allows Lanternfish to be synchronized, without the need for external cables or connections, to timed video cameras, still cameras, or other oceanographic field sensors. A built-in magnetic reed-switch also allows the user to operate the Lanternfish manually while on-deck or underwater.

Specifications

- **Rated Depth:** 1,000m (3,300ft)
- **Dimensions:** 51mm dia. x 105mm L (2" dia. x 4-1/8" L)
- **Light output:** 235 lumens @ 5650K cool-white (Other colors available)
- **Beam:** 120° (Other beam angles available)
- **Housing:** Anodized Aluminum & Acrylic
- **Battery:** 5200mAh Lithium-Ion with over-charge/discharge protection and integral charging circuitry. Will recharge from a standard USB port or external 5Vdc @ 500mA supply.
- **Dimming:** Linearly variable brightness level from 0-100%
- **Endurance:** Dependent on brightness level and duty-cycle.
Typical runtimes (continuous): 7hrs@100%, 14hrs@50%, 28hrs@25%, 4days@5%
- **Configuration Interface:** USB 2.0 via Windows-based graphical configuration software
- **Scheduler Parameters:** start time/date, stop time/date, on-time, off-time, brightness level.

Configuration Options

- Narrow (9°), Medium (21°), Wide (39°), Ultra-wide (120°) beam angles
- Various colors and white color-temperatures available
- Waterproof external connector