

DragonFish Mini Torch

LIGHTING
SERIES



Compact LED light

Features

- ▶ 6,000-lumen, continuous, dimmable torch light for professional HOV/ROV/AUV imaging applications
- ▶ Extremely compact package with integral driver electronics
- ▶ 300-m-rated
- ▶ Multidrop RS232, RS485 (up to 254 soft addresses) or analog dimming control
- ▶ User-settable PWM dimming frequency allows flicker-free operation for various video frame rates
- ▶ Automatic thermal self-protection
- ▶ Durable, hard-anodized 6061 aluminum housing
- ▶ Various white temperatures and monochrome color options

Technical specifications on reverse.

Arctic Rays specializes in deep-sea lighting and imaging systems and other custom solutions specifically for use on AUVs, ROVs, manned submersibles and other offshore and underwater structures.

Think deep.

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ARCTIC RAYS
SUBSEA TECHNOLOGIES

DragonFish Mini Torch

Technical Specifications

PARAMETER	SPECIFICATION
Model Number	AR 112
OPTICAL	
Operating Mode	Continuous torch; dimmable
Color channels	One
Output	6,000 Lm @ 5,700K
Color Temperature	4,000K 5,700K standard 6,500K deep blue 450 nm blue 470 nm green 525 nm far red 730 nm
Color Rendering Index	70 min. standard; optional 80 min., 90 min.
Beam Angle (FWHM)	100° standard; custom beam angles available
ELECTRICAL	
Voltage	12-38 VDC standard; other voltage ranges optional
Power	60 W max
Max Input Current	2.5 A @ 24V
Dimming Method	Pulse width modulation; 0-100% duty cycle in 1% increments
PWM Frequency	44 kHz
Efficacy	100 Lm/W
INTERFACE	
Connector	Subconn MCBH4M
Control	Multidrop RS232 or RS485 (2-wire) serial; 254 soft addresses
MECHANICAL	
Weight	350 g in air; 175 g in seawater
Materials	6061-T6 aluminum housing (AHC black); acrylic window
ENVIRONMENTAL	
Depth Rating	300 m (984 ft)
Temperatures	-10°C to 40°C operating; -25°C to 85°C storage

