

DragonFish Torch

LIGHTING
SERIES



Compact, ultra-bright LED light

Features

- ▶ High-output, 10,000-lumen, continuous, dimmable torch light for professional HOV/ROV/AUV imaging applications
- ▶ Extremely compact package with integral driver electronics
- ▶ 1,000-m- or 6,000-m-rated versions
- ▶ 24VDC supply standard; high-voltage DC and AC options available
- ▶ Multidrop RS232, RS485 (up to 250 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
- ▶ Straight or low-profile connector option

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 Torch

Technical Specifications

PARAMETER	SPECIFICATION
Model Number	AR101T
OPTICAL	
Output Lumens	10,000 Lm @ 5,700 K (Vin > 20V)
Color Temperature	4,000 K 5,700 K 6,500 K deep blue 455 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°
Beam Angle with Optional Lens	65°
ELECTRICAL	
Input Voltage	12–38 VDC
Power	105 W maximum
Max Input Current	3.75 A @ 28VDC
Efficacy	95 Lm/W
Dimming Control	RS232 or Analog 0–10VDC
Connector	LPMBH-4-MP standard; MCBH-4-MP opt.
Std. Connector Pinout	1: GND 2: +V 3: RS232 RX 4: RS232TX or Analog Dim
ENVIRONMENTAL	
Depth Rating	1,000 m (3,300 ft) or 6,000 m (19,700 ft)
Temperatures	-10°C to 40°C operating; -25°C to 85°C storage
MECHANICAL	
Size	78 mm L x 70 mm dia. (flood); 84 mm L x 70 mm dia. (narrow)
Weight	1,000m: 600 g in air, 318 g in seawater. 6,000m: 700 g in air; 420 g in seawater
Window Material	1,000m: Acrylic. 6,000m: Sapphire
Housing Material	Aluminum, 6061-T6, AHC black

