



Multichannel LED torch light

Features

- ▶ Ultra-high-output 30,000-lumen, continuous, dimmable torch light for professional HOV/ROV/AUV imaging applications
- ▶ Up to three independently dimmable LED arrays allow white, color-blended or independent tri-color operation
- ▶ 6,000-meter rated
- ▶ High-efficiency, integrated driver circuitry
- ▶ Multidrop RS232 (up to 254 soft addresses)
- ▶ Flicker-free operation for various video frame rates
- ▶ Automatic thermal self-protection

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.

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ARCTIC RAYS
SUBSEA TECHNOLOGIES

WolfFish

Technical Specifications

PARAMETER	SPECIFICATION
Model Number	AR 109
OPTICAL	
Operating Mode	Continuous torch; dimmable
Color channels	Up to 3
Output	Primary array: 30,000 Lm @ 5,700K (240 W); secondary array: 5,000 Lm @5,700 K (50W)
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	80 min. standard; optional 90 min.
Beam Angle (FWHM)	Primary array 70°; secondary array 100°
ELECTRICAL	
Voltage	160–420 VDC standard; 38–55 VDC; 240 VAC
Power	290 W max
Max Input Current	0.97 A @ 300 VDC
Dimming Method	Pulse width modulation; 0–100% duty cycle in 1% increments
PWM Frequency	40 kHz
Efficacy	Primary array 125 Lm/W
INTERFACE	
Connector	Subconn MCBH8M
Control	Multidrop RS232 or RS485 (2-wire) serial; 254 soft addresses
MECHANICAL	
Weight	1.6 kg in air; 700 g in seawater
Materials	6061-T6 aluminum housing (AHC black); acrylic window
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

