

Fusion

4

LIGHTING
SERIES



Patented driver delivers increased lumen output with less power draw in the smallest package.

U.S. PATENTS
#10054287 & #10704766

LED panel strobe

Features

- ▶ Ultra-high-output, 120,000-lumen strobe with patented driver technology
- ▶ 6,000-m-rated
- ▶ Ideal for HOV/ROV/AUV digital still photography or wherever a high-output, compact strobe is needed
- ▶ Simple trigger-controlled pulse length
- ▶ Fast repetition rate
- ▶ Optional independent secondary quench line
- ▶ Customizable color temperature, pulse intensity, rep rate and max pulse duration and beam angles
- ▶ Compact, low-profile, pressure-balanced, oil-filled emitter panel on a hard-anodized 6061 aluminum backplate
- ▶ Wide input supply
- ▶ Driver electronics can be supplied as an OEM stack without housing

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

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Technical Specifications

PARAMETER	SPECIFICATION
Model Number	AR104
OPTICAL	
Operating Mode	Pulsed strobe
Color channels	One
Output	120,000 Lm @ 5,700K
Color Temperature	2,700K 3,000K 3,500K 4,000K 5,700K standard 6,500K
Color Rendering Index	70 min. standard; optional 80 min., 90 min.
Beam Angle (FWHM)	100° standard; 65° optional
ELECTRICAL	
Voltage	9–32 VDC standard; other voltage ranges optional
Power	64 W pulsed max
Max Input Current	2.6 A @ 24V, during recharge
Pulse Duration	0.1–5 ms standard
Pulse Rep Rate	2 Hz standard; 10 Hz optional
Efficacy	1,875 Lm/W pulsed
INTERFACE	
Connector	Subconn MCBH4M
Control	Logic trigger, 5V TTL, active-low
MECHANICAL	
Weight	LED panel: 620 g in air; 310 g in seawater Driver bottle: 1.2 kg in air; 560 g in seawater
Materials	6061-T6 aluminum housings (AHC black); acrylic window
ENVIRONMENTAL	
Depth Rating	6,000 m (19,700 ft)
Temperatures	-10°C to 40°C operating; -25°C to 85°C storage

