# SS182MKII / SS184MKII ~ DarkSaber LED Light, Laser, and Strobe



The SS182 MKII DARK SABER with LED light, laser, and strobe is specifically designed for lighting applications on inspection systems and other operations where illumination and the ability to scale an image are required. This integrated subsea product enables the laser, LED light, and strobe to work in tandem, delivering crisp video images with remote control.

#### Subsea Video

The SS182mkII provides outstanding brightness and warm color for subsea videos, and its adjustable green *laser with LED light* and projector offers the perfect illumination solutions for a vast number of applications. Subsea applications up to 13,123ft / 4,000m standard and 19,685ft / 6,000m optionally; the SS182mkII also features housing options. It features safe operations in the air with intelligent thermal management and is 35% lighter than the previous version.

### **Lighting & Strobe Functions**

Light functions (including strobing) can be controlled remotely via analog, control through digital inputs, over a serial communication port, and while being synced to a digital still camera. The SS182mkII is field configurable, allowing the operator to satisfy exact operational needs.

### 11,000 Lumens LED Light - High Intensity Strobe - Adjustable Line Laser 5-100mW

- Micro controlled with flickerless constant current
- No Acoustic Noise = No effects on nearby sonars
- Depth rated 3000m Aluminum / 6000m Titanium
- Color Temperature: 4000 Kelvin (5700 Kelvin available)
- Color Rendering Index (CRI): 70
- Multiple lights can be controlled by a single serial port
- Light functions, including strobing, can be controlled remotely via analog, digital inputs, over a serial communication port or while being synchronized to a digital still camera.

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#### **OPTICAL SPECIFICATIONS:**

	SS182MKII	SS184MKII	
Light Type	High Brightness White LED		
Light Intensity		Typical: 11,182 Lumens	
		Minimum: 10,800 Lumens	
		Strobe: 12,000-14,000 Lumens, 1-100ms	
Color Temperature		4,000 Kelvin (5700 also available)	
Color Rendering Index (CRI)		70	
Beam Angle		Projection Angle, FWHM, Typical: 80 degrees	
Efficacy		182 Lumens per watt @ 10° intensity	
		127 Lumens per watt @ Full intensity	
Laser		Split Laser Optional	
		520unm direct green	
		5-100 milliwatts max (adjustable)	
		Horizontal or Vertical Line Lens	
		Spot laser Optional	

#### **ENVIRONMENTAL SPECIFICATIONS:**

	SS182MKII	SS184MKII		
Operating Depth	3,000 meters (13,123 feet)	6,000 meters (13,123 feet)		
		(deeper depth upon request)		
Housing	6061 Aluminum, Hard Black Anodized	6AL – 4V Titanium		
Operating Temperature	-20°C to 60°C (-4°F to 140°F)			
Storage Temperature	-25°C to 85°C (-13°F to 185°F)			
Window	Sapphire (Acrylic Optional)			

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#### **ELECTRICAL SPECIFICATIONS:**

	SS182MKII	SS184MKII
Voltage		20~36VDC
Power		90W Max
LED Drive		DC Constant current, no flicker, no acoustic noise
LED Life		50,000 Hours Minimum
Thermal Protection		Automatic, 60°C Max in Air
Analog Control		From 0 volts up to 40VDC (configurable) 1 power cycle
Digital Control		Serial Ports: RS232 or RS485
		Digital inputs
Strobe Light Output		0 to 14,000 Lumens : 1 to 100ms
		Trigger: Rising or Falling Edge
		Delay of Trigger : 1ms
		Rise Time, to full brightness : 70us

#### **MECHANICAL SPECIFICATIONS:**

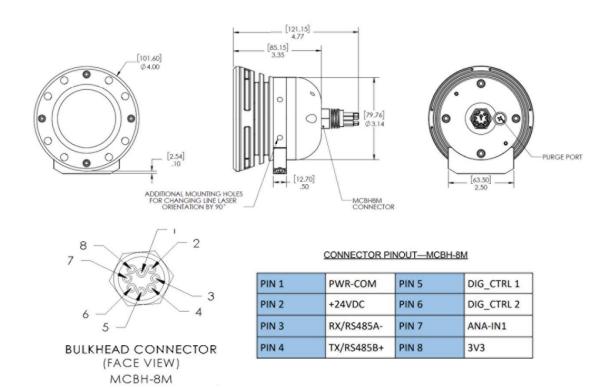
SS182MKII		SS184MKII
Anodized Aluminu	ım	Titanium
	4.77" [121.15mm] leng	th x 4.00" [101.6mm] diameter
2.55 lbs [1.16 kg]		3.58
1.83 lbs [0.83 kg]		2.86
	Sapphire (Acrylic Option	onal)
	MCBH-8MP	
	1. PWR-COM 2. +24VDC	
	3. RX/RS485A-	
	4. TX / RS458B+	
	5. DIG_CTRL 1	
	6. DIG_CTRL 2	
	7. ANA-IN1	
	8. 3V3	
	Anodized Aluminu 2.55 lbs [1.16 kg]	Anodized Aluminum  4.77" [121.15mm] leng  2.55 lbs [1.16 kg]  1.83 lbs [0.83 kg]  Sapphire (Acrylic Option  MCBH-8MP  1. PWR-COM  2. +24VDC  3. RX/RS485A- 4. TX / RS458B+ 5. DIG_CTRL 1 6. DIG_CTRL 2 7. ANA-IN1

#### **DESIGN:**

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Caution: Laser light is bright and blinding. DOT NOT shine at aircraft or vehicles at any distance.



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