

## SOLO Series II Subsea HD Camera & Light Suite

### HIGH DEFINITION, AUTONOMOUS SUBSEA IMAGING

#### System Description:

The SOLO Series II Subsea Camera and Light suite is a highly configurable imaging system designed to provide the user with autonomously captured 1080p high definition footage video or still images in the subsea environment. At the core of the series are universal designs for a standard camera, standalone light and tethered light housing. Combining the camera with a light produces a standalone system, powered by internal batteries and without the need for external cabling.



*The SOLO Series 2 in standalone camera and light configuration. Independent housings maximize endurance.*



*The tethered camera and light configuration. This additionally allows time lapse photography.*

#### Applications:

The SOLO Series 2 is entirely suitable for a wide range of subsea video or still image users, in any range of ocean depths, from shallow to 9,000m/29,500ft below the surface. The system has myriad uses including:

***Trawl Camera (Fishing), Biological Monitoring, Sediment Dynamics, Geotechnical Sampling, Equipment Monitoring, ROV/AUV, Long and Short Term Scientific Observation and more!***

As a plug and play system, the SOLO Series 2 is designed for ease of use, with an intuitive user design and highly flexible control interface. Video quality, color, definition and more can all be set through a GUI screen. Charging is simple, and setting light output push-button easy. This flexibility is combined with Williamson & Associates' own camera and light controller, the user can set any interval for time lapse still or video imagery collection.

#### Features:

- Record >15 hours of 1080p footage or months of stills
- Provide 300–1,000 true lumens of lighting
- Redundant seals and a tough, scratch resistant sapphire viewport combined with ¼ inch thick, ultra-durable housing
- Configurable, autonomous, designed for rapid deployment
- User friendly and flexible control and activation

**Options:**

The flexible core design of a pressure housing and viewport can be constructed from anodized aluminum (as shown) providing a 2,500m depth rating or from Titanium which increases depth rating to up to 9,000m/29,500ft.

Design options are detailed in the table below:

	<b>Base Configuration:</b>	<b>Options:</b>
<i>Housing Construction</i>	Anodized Aluminum Depth Rating 2,500m/8,200ft	Titanium Depth Rating 9,000m/29,500ft.
<i>Internal Power Pack Panasonic NCR18650 Cells</i>	Camera - 3 cells Standalone Light - 9 cells Camera/Tethered Light - 6 cells	Camera - 6 cells Standalone Light - 12 cells Camera/Tethered Light - 12
<i>LED</i>	Cree X7 White Light LED	Any LED color
<i>Camera Field of View</i>	86°	116°
<i>Mounting</i>	None	Williamson can provide almost any UHMW or aluminum mount fitting imaginable

**Specification:**

	<b>Subsea Light:</b>	<b>Subsea Camera:</b>
<i>Dimensions</i>	2.75" x 8"	2.75" x 8"
<i>Weight in Water / Air</i>	2.5lbs / 2.7lbs	2.5lbs / 2.7lbs
<i>Endurance (depending on Option)</i>	>30 hours @ 300 lumens >15hours @ 700 lumens >12 hours @ 1,000 lumens	>15 hours @ 1080p >24 hours @ 720p
<i>Battery Cells</i>	Panasonic NCR18650. Rated Capacity Min 2700mAh. Nominal Voltage 3.6V.	
<i>Camera Sensor</i>	Sony CMOS, adjustable focal length, 1080p, 720p, lower or still options	
<i>Light Emitter</i>	Various Cree LED options are compatible	

**Support:**

Williamson is a diversified and innovative Ocean Engineering company, with a 30 year tradition of making our own equipment when the market doesn't fill our needs. The Solo Series II is designed and built by our engineers and technicians at our facility in Seattle, Washington. We are proud to use American manufactured housings and the latest in additive manufacturing techniques for internal components. Technical support is vital to getting the most out of equipment and we offer a 1-year warranty on all Solo Series II products, as well as complementary training. We're only a phone call away.

