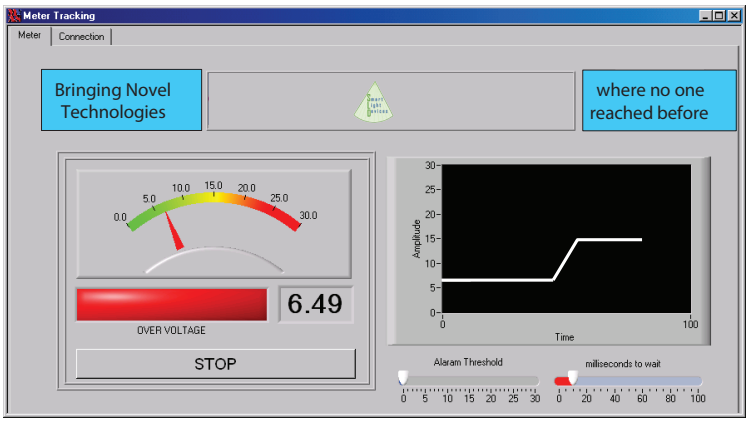
Permanent Imaging and Monitoring of Subsea Installations (PMI-1)

BENEFITS

- PMI-1 requires low power and hence long term monitoring could be achieved.
- PMI-1 is integrated with rechargeable high power batteries for optimum usage.
- Reliable, fast imaging and alarm system
- Automatic data analysis
- PMI-1 is a turn-key solution, simple to operate and no requirement of expert in field.



FEATURES

- The unit can easily handle the transmission data of eight cameras simultaneously, while providing high precision data.
- The unit provides unrivalled combination of speed, accuracy, flexibility and of wide field-of-view to capture both large and small subsea structures.
- It has been programmed for alarming of various subsea output such as gauges, gas leaking bubbles etc.
- Engineered to highest spec for long term monitoring of subsea structures.

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Smart Light Devices

Technical Specifications

Parameters	The camera Spec	The Controller Spec	The Monitoring Spec
Monitoring Distance	50-2000mm Customizable with zoom lens	N/A	N/A
Sampling Rate	1 reading per second Optional: 25 Hz	1 reading per second multi channels Optional: 25 Hz 120mm (D) x 150 mm(L)	1 reading per second multi channels Optional: 25 Hz 120mm (D) x 150 mm(L)
Pod Dimension	31mm (D) x 133 mm(L)	120mm (D) x 150 mm(L)	69mm (W) x 117 mm(H) 14mm(D)
Weight	In air: 266g, In water: 157g	In air: 3kg, In water: 2.3 kg	In air: 115g
Built Material	Titanium	Aluminium	Water resistant materials
Power Consumption	3W DC 24V (Optional 90 - 260V AC 50/60 HZ)	20W DC 24V (Optional 90 - 260V AC 50/60 HZ)	6W DC 5V
Communication	Cable, WETCON MCBH4M connector	Wireless 54G, LAN10/100/1000 (Other option please call)	Terminal
Shock Resistance	30g peak, 6ms half-sine pulse	4g peak, 6ms half-sine pulse	16g peak, 6ms half-sine pulse
Operating Temp.	0°C to 40°C, Non frozen environment	0°C to 40°C, Non frozen environment	0°C to 40°C, Non frozen environment
Heat Sink	The internal pod operates typically at 5°C above ambient.	The internal pod operates typically at 5°C above ambient.	Not required
Galvanic Correction	The system is anodised to withstand the normal water salinity	The system is anodised to withstand the normal water salinity	Not required
Vacuum	250mbar (Sealed via titanium valve)	250mbar (Sealed via titanium valve)	Not required
Depth Rating	4000m (other depths are optional)	3000m (other depths are optional)	Not required
Optical Windows	The system incorporates high quality sapphire glass windows with high scratch resistance.	Not required	LCD
Optional	Incorporating High lumens low current LED with camera system that is specifically designed for the above environment.	The controller is normally controlling 8 cameras continuously with opitonal of controlling 12 cameras	The arm system is set to monitor gages and gas leaking bubbles with optional to monitor other environments