



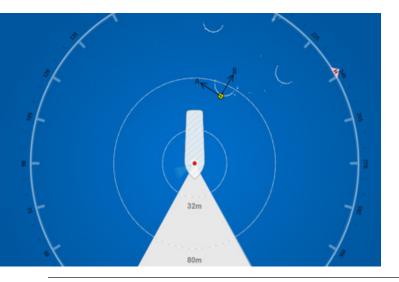
SCENESCAN

The first targetless laser position reference sensor

SceneScan is a sensor that doesn't use reflector targets. When approaching a scene, it scans the environment and tracks. SceneScan provides tracking information relative to natural or man-made structures within the sensor field of view. It tracks by matching its current observation of the scene against a map generated from previous observations of the scene.

Benefits

- No targets required
- Designed for close proximity (10m 200m)
- Additional independent DP reference sensor
- Automatic reference point selection
- Maximum uptime from rotor design
- Modular sensor design aids in-vessel servicing
- No prisms, no maintenance
- Robust construction high performance in all weather conditions and sea states



Typical Applications

SceneScan is suitable for applications which use fixed structures such as:

- Platform, offshore and multipurpose supply vessel operations
- Wind farm service operation vessels (monopole mode)
- Jack-up rigs
- Accommodation barge operation
- Crew boats station-keeping
- Heavy lift activities
- Dive and ROV support
- Short range operations

SceneScan is also suitable for DP applications with mobile structures such as:

Track and ship follow



Main data

Sensor Details		Tacking Details	
Laser Source	Pulsed laser diode, 905nm	Typical range to track a TLP	200m
Laser Pulsing Frequency	7.5kHz	Typical position noise when station keeping at a TLP	<100mm
Laser Classification	Class 1M*	Typical range to track a Jack-up	100m
Typical max range to dark target	200m	Typical position noise when station keeping at a Jack-up	<100mm
Range Resolution	8.5mm	Typical range to track a Drillship	Station Keeping Only
Range Noise	30mm	Typical position noise when station keeping at a Drillship	<100mm
Beam Shape	25mm beam diameter	Typical range to track monopole	200m
Wave Motion Compensation Single axis gimbal, -20°, +15° absolute range		Typical position noise when station keeping at monopole	200mm

Levelling Optics		
Active Axis	Single vertical axis with stepper control	
Sensors	3 axis solid state gyro	
	3 axis solid state accelerometer	

Vessel Interface			
Sensor Power	85 - 264 VAC, max 130W		
Sensor Control Electrical Interface	Ethernet 100Base-T		
Sensor Control Software	Up to 10 simultaneously connected consoles		
Sensor DP Feed	2 X RS422		
Supported DP Telegram Formats	NMEA0183R NMEA0183P, ASCII17, MDL Standard, MDL Single Target, MDL Multi-Target, Artemis Mk4, Nautronix		
Custom DP Telegrams	BCD, Artemis, Marine Technologies, Rolls-Royce, Kongsberg		

Environmental		
Operating Termperature Range	Min: -25°C - Max: 55°C	
Ingress Protection Rating	IP66 rated	
Standards Compliance	EN60945, IEC60825	

Sensor Weight & Dimensions		Flight Case Weight & Dimensions	
Width	405mm	System Dimensions	680 x 570 x 780mm
Depth	407mm	System Weight	61kg (with typical accessories such as computer, monitor and mouse)
Height	456mm		
Weight	25kg		

^{*}Incapable of causing injury during normal operation unless collecting optics are used

Guidance Marine empowers vessels with advanced sensor technology, delivering unmatched precision, safety, and control, even in the most challenging marine environments.



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