








SCENESCAN




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
-  Additional independent DP reference sensor
-  Automatic reference point selection
-  Modular sensor design aids in-vessel servicing
-  No prisms, no maintenance

APPLICATIONS

-  Platform, offshore and supply vessel operations
-  Wind farm service operation vessels
-  Dive and ROV support & crew boats

SceneScan is also suitable for **DP applications** with mobile structures such as **track and ship follow**.



SCENESCAN SPECIFICATIONS

Sensor Details

Laser Source	Pulsed laser diode, 905nm
Laser Pulsing Frequency	7.5kHz
Laser Classification	Class 1M*
Typical max range to dark target	200m
Range Resolution	8.5mm
Range Noise	30mm
Beam Shape	25mm beam diameter
Wave Motion Compensation	Single axis gimbal +/-20°, +15° absolute range

Tracking details

Typical range to track a TLP	200m
Typical position noise when station keeping at a TLP	<100mm
Typical range to track a jack up	100m
Typical position noise when station keeping at a jack up	<100mm
Typical position noise when station keeping at a drillship	<100mm
Typical range to track monopole	200m
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

Environmental

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

Flight Case Weight & Dimensions

System Dimension	680 x 570 x 780mm
System Weight	61kg (with typical accessories such as computer, monitor and mouse)

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

Sensor Weight & Dimensions

Width	405mm
Depth	407mm
Height	456mm
Weight	25kg

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



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Guidance Marine Ltd
www.guidancemarine.com
info@guidancemarine.com

5 Tiber Way, Meridian Business Park, Leicester,
 LE19 1QP, UK