

GUIDANCE MARINE

CYSCAN AS

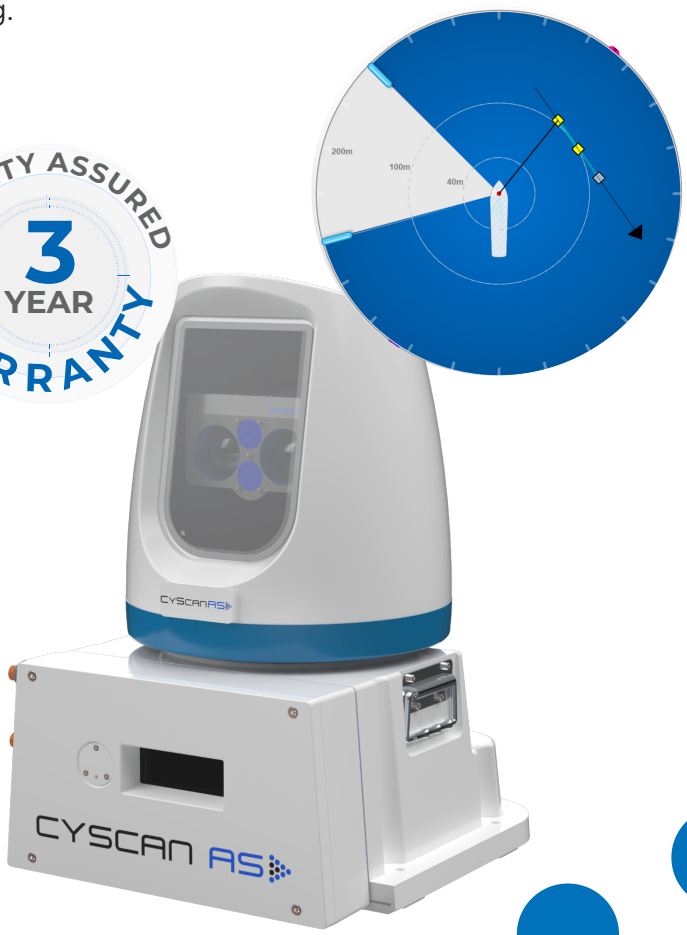
LONGEST RANGE LASER POSITION REFERENCE SENSOR

CyScan AS® | a high-performance, GNSS resilient, **local position reference sensor** specifically engineered for marine Dynamic Positioning applications. Absolute Signature (AS) resolves long-standing, common industry challenges by providing an improved performance during target identification, acquisition and tracking.

BENEFITS

- Positively identifies AS targets
- Longest range DP laser sensor on the market today
- Can add additional targets to a multi-target session without interruption
- Field proven false target reflection rejection
- No disruption from GNSS interferance

QUALITY ASSURED 3 YEAR WARRANTY



APPLICATIONS

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

Cyscan AS is also suitable for **DP applications** with mobile structures such as **track and ship follow** and **shuttle tanker loading**.

DELIVERING THE FUTURE IN DYNAMIC POSITIONING
WITH CONSISTENTLY ACCURATE PRODUCTS

CYSCAN AS SPECIFICATIONS

Sensor Details	
Laser Source	Pulsed laser diodes
Laser Classification	Class 1M
Operating Range (Nominal)	10-2500m (dependent on target size and atmospheric conditions)
Range Resolution	0.01m (DP Feed dependent)
Range Noise	50mm*
Bearing Noise	0.2 mrad
Beam Shape	12" vertical | 0.13° horizontal
Total Vertical Coverage	52°
Wave Motion Compensation	Single axis gimbal | +/-20° absolute range
Maximum Detectable Targets	30
Maximum Trackable Targets	9

Target Details	
Typical Range	1.9, cylindrical 10m to 400m
	Prism 10m to 2500m (target type/ absolute signature technology dependent)

Levelling Optics	
Active Axis	Single axis with automatic dynamic stepper control
Tilt Compensation	-20° to +20° roll and pitch (combined)
Sensors	3 axis solid state gyro and accelerometers
	2 axis inclinometer
Total Vertical Angular Coverage (typical)	52° (mechanical + optical)
Wave Motion Compensation	1.5° for 5 second wave period

Flight Case Weight & Measurements	
System Dimensions	680 x 570 x 910mm
System Weight	ca. 78kg (typical accessories)

Sensor Weight & Dimensions	
Width	405mm
Depth	407mm
Height	565mm
Weight	28kg

Vessel Interface	
Sensor Power	85-264VAC | max 100W
Sensor Control Electrical Interface	Ethernet 100Base-T or Serial RS422
Sensor Control Software	Up to 10 simultaneous consoles (Ethernet) | Single control console serial connected sensors
Sensor DP Feed	2 x RS422 (Ethernet controlled sensors) or 1 x RS422 (Serial connected sensor)
Supported DP Telegram Formats	NMEA0183R | NMEA0183P | ASCII17 | MDL Standard
Custom DP Telegrams	BCD | Artemis | Marine Technologies | Rolls Royce

Environmental	
Operating Temperature Range	Min: - 40°C | Max: 55°C
Ingress Protection Rating	IP56 rated
Standard Compliance	EN60945 | IEC 60825 | IACS E10 R10

GeoLock	
GeoLock Position Feed	Ethernet
Output Telegram	NEMA GPGGA

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

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