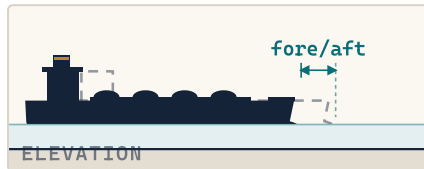


Optical drift & draft monitoring for tanker berths.

A fixed optical sensor at the jetty watches a coded panel on the hull. It reports travel along the berth, draft change and rotation ten times a second, to better than 10 mm. Navitrak lidar measures standoff to the fenders.

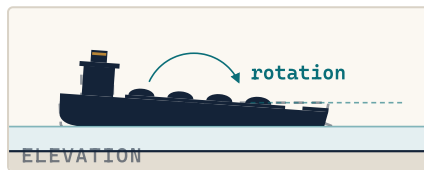
WHAT IT MEASURES



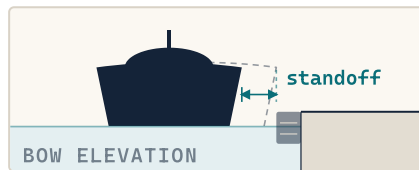
Fore/aft drift Travel along the berth.



Draft change Rise against a fixed waterline.



Rotation Attitude off level, usually trim.



Standoff Gap to the fender face.

SYSTEM	DriftScout optical drift & draft monitor
MEASUREMENT	Fixed optical sensor observing a coded hull target
MONITORING SCOPE	From the hull target: travel along the berth · draft change · rotation. Rotation is total change in attitude, and trim is the usual cause during cargo transfer. From Navitrak lidar: standoff to the fenders.
ACCURACY	Better than 10 mm on the fore/aft channel, subject to calibration and the site acceptance test
UPDATE RATE	10 Hz
OPERATING TEMPERATURE	–10 °C to +65 °C
TARGET	300 × 300 × 40 mm weather- and UV-resistant panel · ≈ 400 g · magnetic attachment · handling pole
INTERFACES	Browser UI · REST / WebSocket · Modbus · OPC UA · MQTT · HTTPS webhook
DEPLOYMENT	Standalone or integrated with the terminal platform · multi-sensor architecture
SENSOR VARIANTS	Safe-area and explosion-proof options
EXPLOSION-PROOF CERTIFICATION	ATEX: II 2 G Ex db IIC T6 Gb / II 2 D Ex tb IIIC T80 °C Db · IECEx: Ex db IIC T6 Gb / Ex tb IIIC T80 °C Db
HAZARDOUS AREA CLASSIFICATION	Zone 1 · Zone 2 · Zone 21 · Zone 22
EX STANDARDS	IEC 60079-0: 2017 · IEC 60079-1: 2014 · IEC 60079-31: 2022
INGRESS PROTECTION	IP66 / IP68 (2 m, 2 h)

Explosion-proof variant. Flameproof enclosure certified for use in hazardous gas and dust atmospheres. We supply certification copies on request.