

Navigation & Positioning Camera

NAV CAM Air is an all-in-one surface based visual inclination and positioning centre which has been designed for the in-air monitoring of monopiles and topside structures. The system features an embedded GPU, powerful survey graded Inclinometer and dual GNSS. The V-LOC software is supplied as standard and all image treatments are processed in real-time using the dedicated software to achieve highly accurate positioning. NAV CAM Air is fully compatible to be incorporated into external vessel survey suites.



NAV CAM AIR CAN BE PROVIDED WITH GNSS ANTENNAS AND OUTDOOR TRIPOD

- Integrated RTK GNSS Receiver**
- No Topside Unit**
- Certified Lab Calibration**
- Compatible with Construction & Survey Software Suite**

ELECTRICAL

Voltage	24V
Power	15.5W
S/N ratio	< 41Dh
Standard wiring	Glenair 21 pin connector - G5507-2021-0000.9-1796
Data Transfer	Ethernet (10/100 or 100/1000)

MECHANICAL

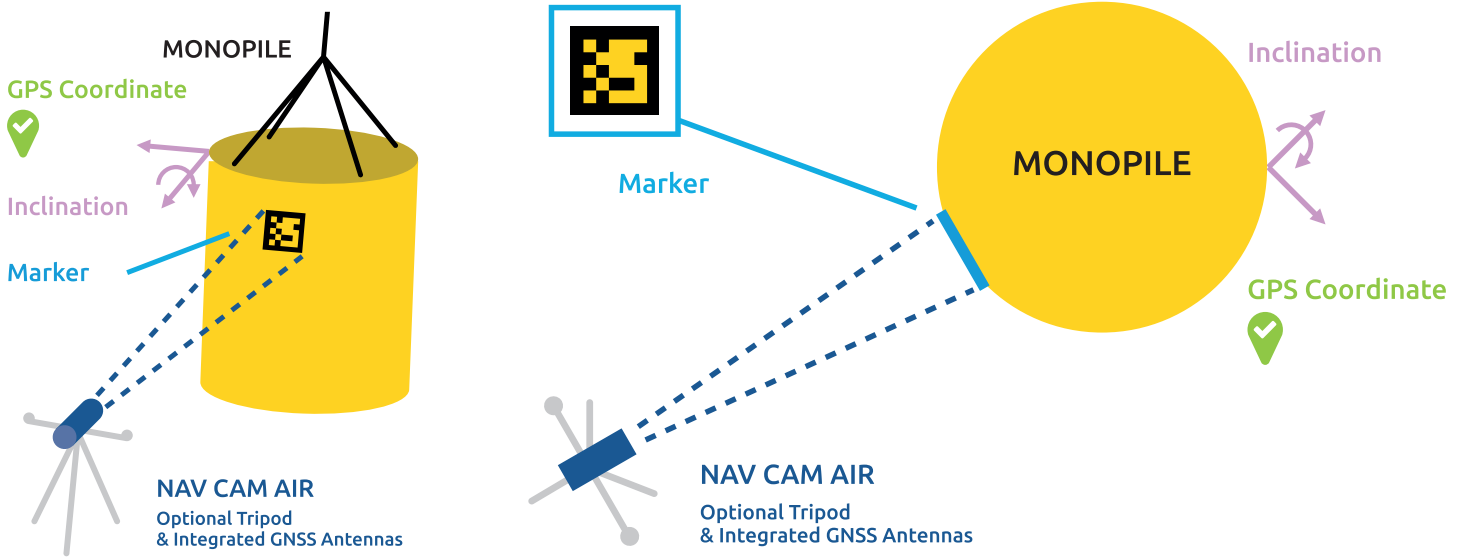
Housing Material	Stainless Steel 316L (DIN 1.4404)
Lens Material	Sapphire glass
Weight	6.13kg
Dimensions	L = 404mm (inc connector) H = 111mm (without connector) W = 99mm

OPTICAL

Sensor	Sony IMX264 2/3" Global Shutter
Absolute sensitivity threshold (y)	18.07
Resolution	Up to 2456 x 2054 @ 22 fps
Standard focal distance	5mm
Angle of view (in air)	95.45° (D) / 81.54° (H) / 65.76° (V)
Calibration	Certified Laboratory Calibration

ENVIRONMENTAL

Water tightness	IP68
Storage temperature	-20°C to 60°C
Operating temperature	0°C to 45°C

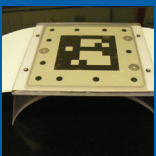


The V-LOC system (Visual Localisation) uses markers which are affixed to structures and a calibrated NAV CAM AIR to compute in realtime inclination and position of the markers for construction and survey

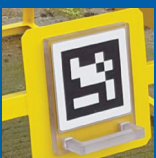
operations. The resident markers provided by Forsea are certified with a design life of 60+ years and are equipped with anti-fouling materials. V-LOC is fully compatible with vessel survey or construction suites



Marker Options



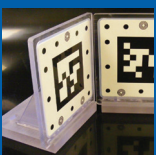
1 Strapping & Bracket



2 Magnetic



3 Permanent Adhesive



4 KISS & Bracket

Installation Example Concrete Block Tracking for Harbor Extension

