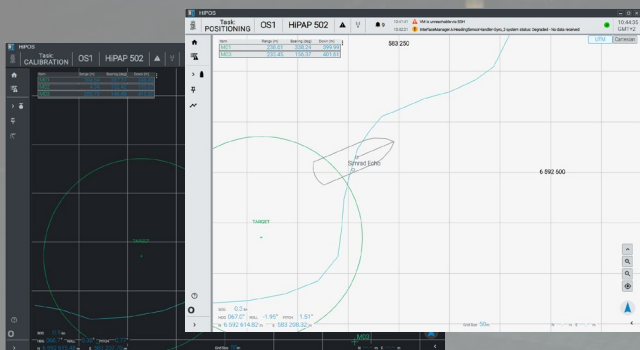


HiPOS



KONGSBERG



Next-Generation Software for HiPAP® Systems

HiPOS is Kongsberg's next-generation operator software for HiPAP installations, delivering enhanced cyber security, remote operation capabilities, an intuitive user experience, and a future-ready platform designed to support evolving offshore operational requirements.

Cyber Security Built for Critical Offshore Operations¹

As cyber threats continue to target maritime and offshore assets, operators need confidence that their positioning systems are protected and compliant. HiPOS is built on modern software architecture and is certified to the IACS UR E27 cyber security standard, helping vessel owners and operators meet increasing cyber security requirements while reducing operational risk. With certified cyber security integrated into the positioning system, customers benefit from:

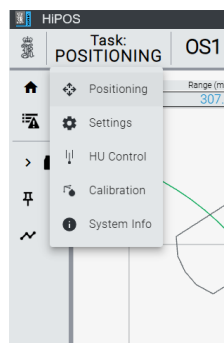
- Increased protection against unauthorized access and cyber threats
- Support for compliance with evolving maritime cyber regulations
- Reduced risk of operational disruption during critical offshore operations
- Greater confidence when integrating positioning data into vessel DP and survey systems
- A future-ready platform designed for ongoing security updates and enhancements

FEATURING

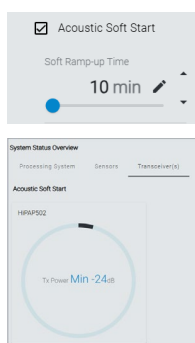
- Modern Windows 11 platform running on Kongsberg Operator Station
- Client/server architecture
- Intuitive task-based user interface and workflows
- Remote operations capability
- Remote support functionality
- Open API for third-party integration (optional license)
- IACS UR E27 Cyber Security certified
- Acoustic "Soft-Start" for marine mammal protection²
- Future-ready architecture designed for continuous enhancements
- Support for 560+ Cymbal Navigation Channels³
- Real time ray bending correction
- Transducer alignment calibration with report
- DP and survey output telegrams
- Online Help

FUNCTIONS

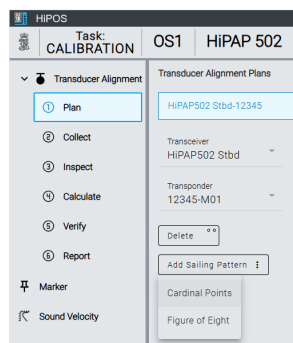
- SSBL / USBL
- Responder Mode
- LBL Positioning (coming)
- Transponder Telemetry
- Responder Mode
- Redundant HiPAP
- Dual HiPAP (Increased Accuracy)
- Modem Operation



Task-based menus



Acoustic soft-start



Transducer alignment workflow

Remote Operations Without Compromise

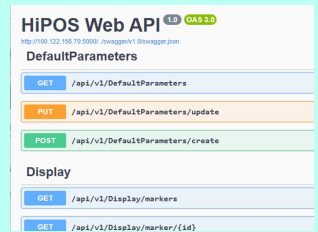
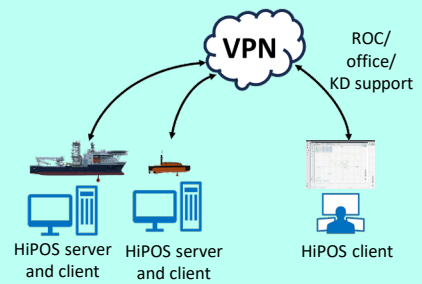
HiPOS enables operators and technical specialists to securely access and support positioning operations from virtually anywhere. Its low-bandwidth client/server architecture supports both manned and unmanned vessel operations while providing full operational visibility and control.

Benefits:

- Access expert support from shore
- Reduce travel costs and offshore mobilization
- Improve uptime through faster troubleshooting
- Support centralized operation of multiple HiPAP systems

Application Programming Interface (API) (Optional License)

An optional API license enables integration with third-party survey, navigation, and control systems. Positioning functions and settings can be accessed directly from external applications, helping simplify workflows and system integration.



Built-in Diagnostics and Quality Control

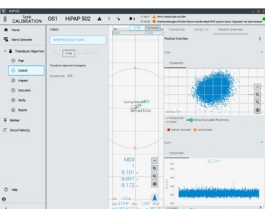
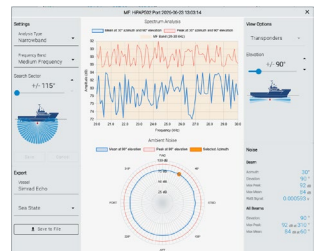
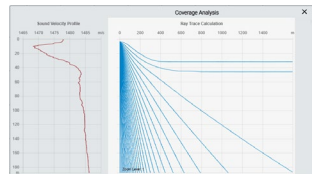
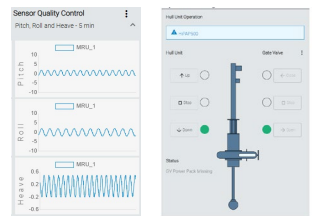
HiPOS includes a comprehensive suite of diagnostic and quality control tools that help operators maximize positioning performance and quickly identify issues before they impact operations.

Real-time monitoring of acoustic signal quality provides insight into system performance, allowing operators to verify signal reception and assess acoustic conditions with confidence. Dedicated sensor quality displays continuously monitor roll, pitch, heave, and heading data to support the integrity of positioning calculations.

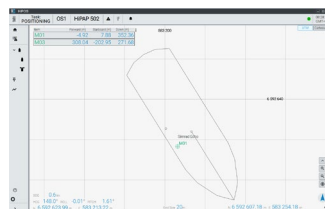
Advanced telemetry analysis provides visibility into received acoustic signals, including multipath reflections and other environmental influences that may affect communication performance. This helps operators make informed decisions and optimize system settings in challenging operating conditions.

The integrated Spectrum Analysis tool evaluates the acoustic environment by measuring background noise, identifying noise sources, and determining the most favorable operating frequencies and directions. Results can be saved and shared for troubleshooting, reporting, and operational planning.

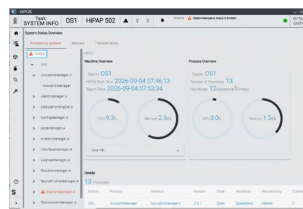
During transducer calibration and alignment, real-time scatter and depth plots provide immediate visual feedback, enabling efficient verification of calibration quality while reducing commissioning and maintenance time.



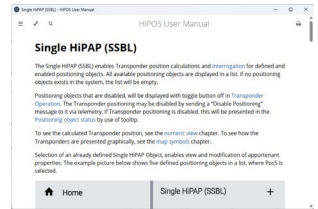
Transducer calibration view



UTM view



System status view



Online manual

- ¹ HiPOS is available with new HIPAP® systems and as an upgrade for eligible existing installations. Upgrade projects may require hardware modifications or replacement to meet current cyber security requirements and certification standards.
- ² Soft start function is ramping up Source Level from < 33 dB rel. maximum power, depending on HiPAP model.
- ³ HiPOS supports the latest Cymbal navigation channel portfolio. Legacy FSK (A and B-channels) are not supported.

Kongsberg Discovery AS
Nedre vei 8
3183 Horten
Norway

Switchboard: +47 33 03 41 00
Global support: +47 33 03 40 00
E-mail sales: kd.sales@kd.kongsberg.com
E-mail support: support.hpr@kd.kongsberg.com
WEB: https://www.kongsberg.com/

Specifications subject to change without prior notice.