Hyperion

Maximum situational awareness

Navicom Dynamics' precision navigation system, the Hyperion is the ultimate tool for total situational awareness to ensure safe simple navigation.

Receive accurate and real-time vessel dynamics information on any number of screens to equip the vessels' navigational team and key personnel to synchronize operations and communications.

Hyperion is user-friendly and becomes a familiar secondary source of reliable and accurate information which is independent of the ships' navigational systems.

Facilitate critical decision making during ship-handling and improve safety of crucial manoeuvres with the Hyperion.

Acts as a fall back navigational system that provides a totally independent navigational tool in case the ship's navigation systems fail.

**Optional accessories*

Performance Features & Usability

Independent of vessel	The system is entirely independent of the vessel. It is a secondary source of vital vessel information that supports critical decision-making during manoeuvres.
Critical information source/data points	Get accurate Position, Heading, Rate-of-turn, COG, SOG and other useful data to create a stable image of the vessel on the chart display software with optional future vessel path predictions.
Situational awareness	Increased situational awareness of the vessel and it's surroundings made available on as many displays as required (navigational team and key personnel)
Portability	Information available on portable displays (tablets/iPads/Windows based systems), allows the key personnel to easily walk around the bridge wing or any location that has been set up.
Extendibility	Add-on up to 24 screens to interface with Hyperion to provide the same accurate and real-time information to additional key personnel for a synchronised operation.
Premium Quality	High quality sensors with advanced technology to form state-of-the-art systems that are accurate, reliable and user-friendly.
User-oriented, feature-rich software	A number of useful features to improve training, usability and safety.

Hyperion - Product Data Sheet

Physical Specifications

Dimensions	L503mm x W406mm x H193mm (exterior) [19.8in x 15.9in x 7.59in]
Weight	7kg (excluding display) 15.4 pounds
Power requirements	110/240 v, 50/60 Hz
Battery	Rechargeable battery pack
Indicators	Master & Slave antenna reception, Heading status, Differential status, Communication link, Power 5V

Technical Specifications

Position source	mGNSS receiver tracking 336 channels Constellations (configurable): GPS: L1 C/A, L2E, L2C, L5 BeiDou: B1, B2, B3 | GLONASS: L1 C/A, L2 C/A, L3 CDMA Galileo: E1, E5A, E5B, E5AltBOC, E6 | IRNSS: L5 QZSS: L1 C/A, L1 SAIF, L2C, L5, LEX | SBAS: L1 C/A, L5
Correction source	SBAS enabled - WAAS, EGNOS, MSAS, GAGAN, SDCM Optional subscription based correction services
Position accuracy	GNSS/GPS (uncorrected) *1.2m (3.9') WAAS (SBAS corrected) *0.3m (1') *Other subscription based augmentation services are available optionally, on request.*
Time to First Fix (TTFF) (mGNSS receiver)	Cold Start <45s | Warm Start <30s Signal Re-Acquisition <2s
Heading	HDG accuracy: 0.1° (1σ) (2m baseline) HDG Precision: 0.01°
Bow & Stern Velocity (SOG)	± 0.1m/sec (0.2Kn)
Rate of Turn	ROT Accuracy: 0.5°/min (1σ) | ROT Precision : 0.01°/min
Pitch & Roll (optional)	Accuracy: 0.1° (1σ) | Precision: 0.01°
AIS reception range	>10Nm (assuming optimal conditions)
Data output (NMEA/AIS)	GPGGA, GPHDT, GPROT, GPVTG, AIVDM
Connectivity	Wi-Fi, Bluetooth (Class 1) *[optional]*, Ethernet

Environmental Specifications

Operating temperature	-32°C to +74°C (-25°F to +165°F)
Storage temperature	-40°C to +85°C (-40°F to +185°F)
Humidity	95% (non-condensing)
RoHS	Hyperion meets the directive for Restriction of Hazardous Substances

**achieves accuracies down to*

Independent and accurate, vessel transit information on portable displays

Real-time position, HDG, ROT, COG, SOG and AIS targets displayed via SEA*iq* ECS

Docking

Navigation

Route Planning

Path Prediction

Situational Awareness

Navicom Dynamics is an Auckland, New Zealand based manufacturer of precision navigation equipment.

We also provide the following services:

- In-depth Product Training
- Comprehensive Support Packages
- Full On-site Commissioning

Proudly designed and manufactured in New Zealand

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