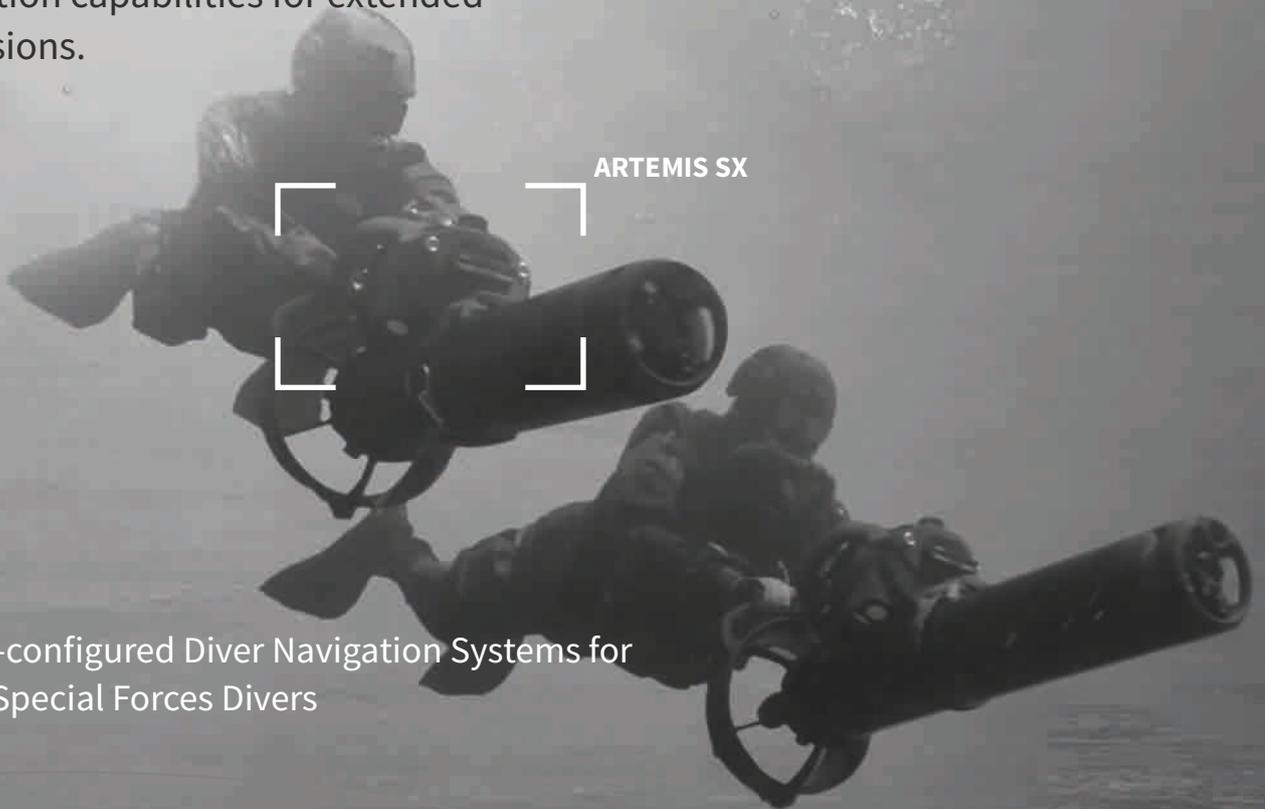


SUEX DPV-CONFIGURED DIVER NAVIGATION SYSTEMS

Diver handheld or SUEX Diver Propulsion Vehicle (DPV) mounted, the Artemis SX range of Navigation Systems offer covert navigation, sonar imaging and acoustic communication capabilities for extended tactical missions.



Reliable DPV-configured Diver Navigation Systems for
Military and Special Forces Divers

SYSTEM FEATURES

- + Diver handheld or SUEX DPV mounted for increased versatility
- + Compact console with fully integrated sensor package and SUEX DPV interface
- + High accuracy covert navigation capability
- + Realtime sonar imaging for low visibility target detection and identification
- + Intuitive operation for effective use in high pressure situations
- + Text messaging functionality for reliable diver communication
- + Accurate diver tracking for improved safety
- + Easy mission planning and post-dive log data review

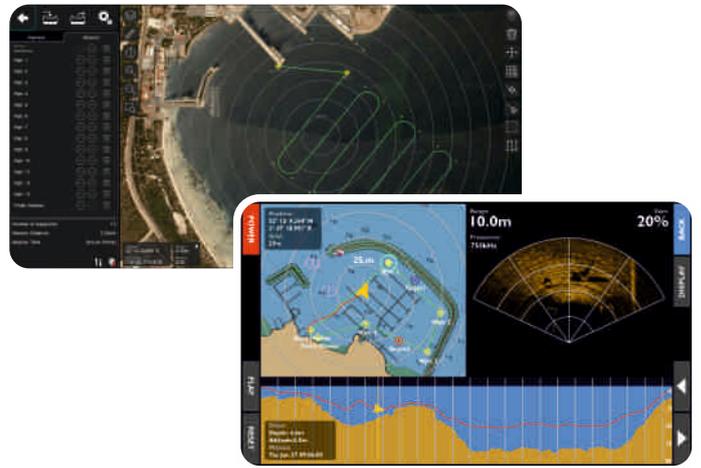
CONFIGURATION OVERVIEW

Available in three different configurations to suit all mission requirements.

	ArtemisPRO SX	ArtemisHHS SX	ArtemisNAV SX	ArtemisLITE SX
Mission Planning and Post-Dive Review	✓	✓	✓	✓
SUEX DPV Configured	✓	✓	✓	✓
SUEX DPV Interface	✓	✓	✓	✓
Attitude Heading Reference System (AHRS)	✓	✓	✓	✓
Artemis HMD Compatible (Ordered Separately)	✓	✓	✓	✓
Artemis TOM Compatible (Ordered Separately)	✓	✓	✓	✓
Internal GNSS Receiver	✓	✓	✓	✓
GNSS Receiver Buoy	✓	✓	✓	✓
Internal Depth Sensor	✓	✓	✓	✓
Acoustic Messaging Beacon	✓	✓	✓	✓
Acoustic Tracking Beacon	✓	✓	✓	✓
Video Camera	✓	✓	✗	✗
Dive Light	✓	✓	✗	✗
Oculus Multibeam Imaging Sonar	✓	✓	✗	✗
Integrated Pinger/Transponder Locator	✓	✓	✗	✗
Doppler Velocity Log (DVL)	✓	✗	✓	✗

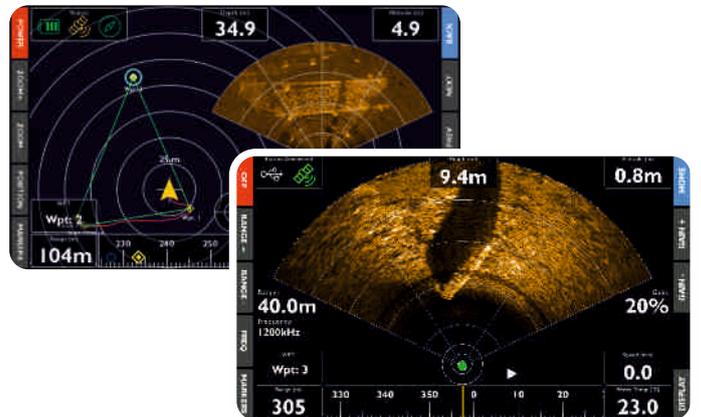
INTUITIVE MISSION PLANNING AND DATA REVIEW

Plan precise dive missions using the intuitive map viewer and waypoint editor within the NavPoint software. Post-dive, provide a detailed debrief using synchronised navigation, sonar, video, and depth data for review and analysis.



REAL-TIME SONAR IMAGING

Remain operational even in the most challenging low visibility conditions with the dual frequency Oculus multibeam imaging sonar. Benefit from real-time, high-definition imaging for improved situational awareness, navigation, and target identification.

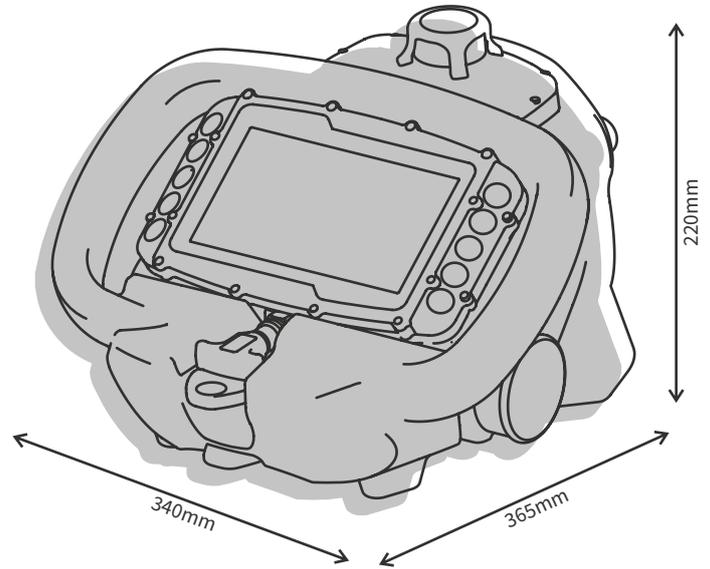


RELIABLE COMMUNICATION AND DIVER TRACKING

Maintain communication with the surface, and other divers, using the integrated SeaTrac acoustic beacon. Allow the surface to accurately track the system in situations when diver safety is paramount.

OPTIONAL ANCILLARIES

- + Topside Control System – ruggedised laptop equipped with NavPoint dive mission planning and review software
- + SeaTrac Base System – topside acoustic beacon and ancillary equipment for diver tracking and messaging
- + Artemis Head Mounted Display (HMD) System
- + Artemis Thermal Imaging Camera and Telescopic Mast



SPECIFICATION

MECHANICAL

Dimensions	365mm (L) x 340mm (W) x 220mm (H)
Weight	~10.5kg (Max) in Air, ~0.25kg (Max) in Water
Operating Temp.	-10°C to +45°C
Depth	100m

ELECTRICAL

Screen	7" 1024 x 600 Pixels, Adjustable Backlight
Data Logging	512Gb Internal Solid State Drive*
Sensors	Pressure, Temperature, Attitude/Heading
User Interface	10x Piezo Buttons
Connector	USB 2.0 480Mbps

GNSS NAVIGATION

GNSS Receiver	72-Channel GPS L1 C/A, GLONASS L10F, BeiDou B1I Galileo E1B/C. 2.0m CEP Position Accuracy
---------------	---

MECHANICAL

Battery Chemistry	NiMH	Li-ION
Operating Time	6-8 Hours Typical Use	16-20 Hours Typical Use
Charging Time	Approx 4 Hours From Fully Discharged State	
Charger Supply	90-264V AC Mains at 50-60Hz	

DA-150-P03273-07

SONAR

Oculus Model	M750d	M1200d	M3000d
Frequency	750kHz/1.2MHz	1.2MHz/2.1MHz	1.2MHz/3.0MHz
Range Max	120m/40m	40m/10m	30m/5m
Range Min	0.1m		
Horizontal Beam	130°/130°	130°/60°	130°/40°
Vertical Beam	20°/20°	20°/20°	20°/20°

DOPPLER VELOCITY LOG (DVL)

Frequency	500kHz
Range	200m Bottom Tracking
Beam Geometry	4 Beams, 2.4° Conical, Janus Configuration
Velocity Resolution	1mm/second

MESSAGING AND TRACKING

Acoustic Range	1km Radius Horizontal, 1km Vertical (Hemispherical)
Communications	24-32kHz, 100 Baud
Messaging	Pre-Canned or Free Text Bidirectional Acoustic Messages
Positioning	Position Sharing Between 5 Consoles and Surface Beacon

*Other options available

Please note that all specifications may be subject to change in line with our policy of continual improvement