Blueprint Subsea

ArtemisPRO SX Datasheet

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Manufacturer: Blueprint Subsea

Document: DA-150-P03253-07.pdf

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Original manufacturer source

https://www.blueprintsubsea.com/downloads/artemis/DA-150-P03253-07.pdf

Manufacturer pages follow unchanged. Local distribution copy.

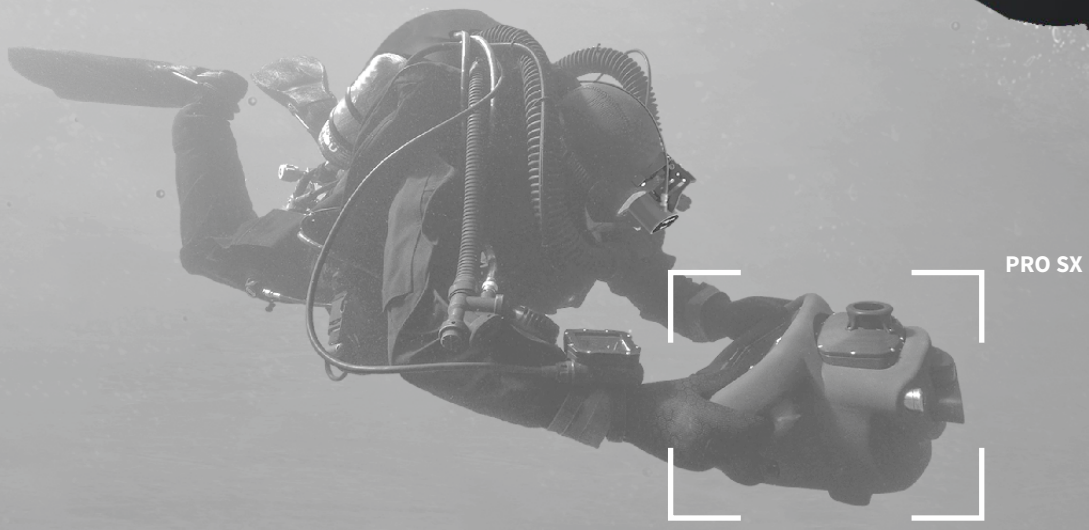
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ArtemisPRO SX

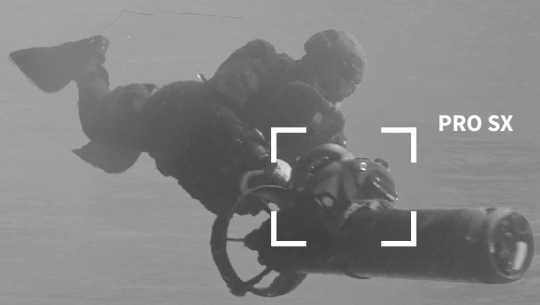
DIVER NAVIGATION SYSTEM

Diver handheld navigation, sonar imaging and acoustic communication system for tactical operations in hostile environments.





The ArtemisPRO SX can be diver handheld or SUEX Diver Propulsion Vehicle (DPV) mounted.



artemis PRO SX

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Part of the AION GROUP

SYSTEM FEATURES

+ High accuracy 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
+ Diver handheld or SUEX DPV mounted for increased versitility
+ Compact console with fully integrated sensor package and SUEX DPV interface
+ Easy mission planning and post-dive log data review

CONFIGURATION OVERVIEW

Mission Planning and Post-Dive Review	✓
Attitude Heading Reference System (AHRS)	✓
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)	✓
SUEX DPV Configured	✓
SUEX DPV Interface	✓

The ArtemisPRO SX can be **Diver Handheld** or **SUEX Diver Propulsion Vehicle (DPV) mounted**:



ArtemisPRO SX
(Handheld)



ArtemisPRO SX
(Mounted to DPV)

ArtemisPRO SX consoles are configured for SUEX Diver Propulsion Vehicles (DPVs).
SUEX is a sister company of Blueprint Subsea.

MISSION PLANNING WITH NAVPOINT SOFTWARE

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



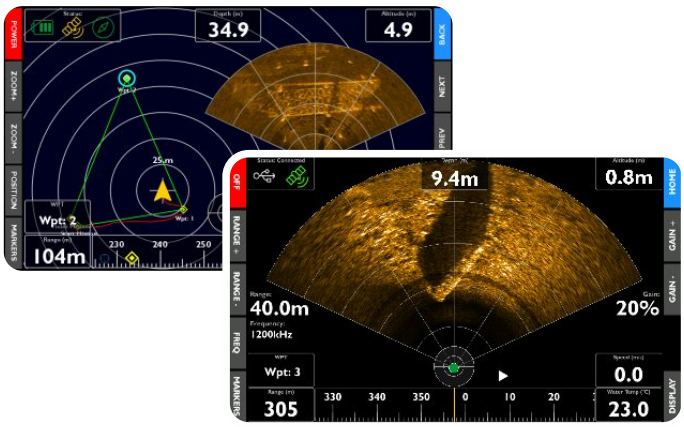


ACCURATE, RELIABLE NAVIGATION

Navigate with confidence using the interactive displays. Remain informed of current diver location, heading and swim distance overlaid on a range of charts. The Artemis system provides covert dead reckoning navigation using a DVL and AHRS, or a discreet external floating GNSS receiver buoy for actual location.

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.





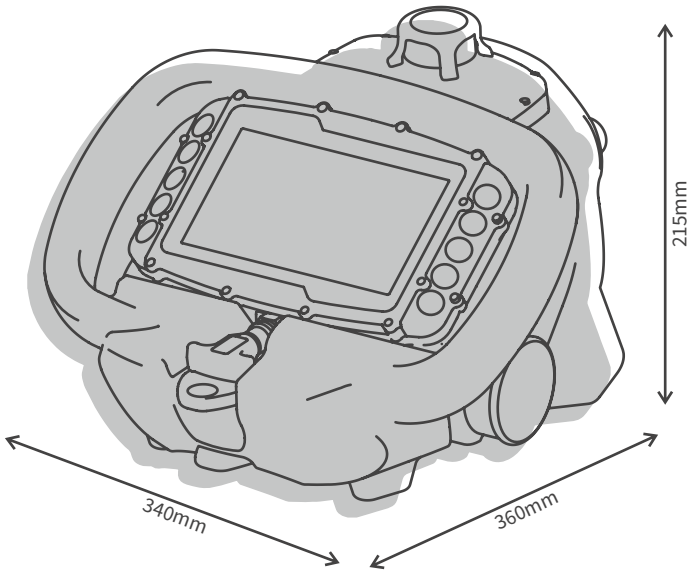
RELIABLE COMMUNICATION AND DIVER TRACKING

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.

artemis PRO SX

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)
+ Artemis Tactical Observation Mast (TOM)



SPECIFICATION

MECHANICAL

Dimensions	340mm (L) x 360mm (W) x 215mm (H)
Weight	~10.5kg in Air, ~0.25kg (Max) in Water
Depth Rating	100m
Operating Temp.	-10°C to +45°C
User Interface	10x Piezo Buttons

ELECTRICAL

Screen	7" 1024 x 600 Pixels, Adjustable Backlight
Sensors	Pressure, Temperature, AHRS
Connector	USB User Port (MCBH-8-FS)
Storage	512Gb Internal Solid State Drive

BATTERY*

Chemistry	Li-ION
Capacity	14.5V 23.4Ah (340Wh)
Operating Time	Approx. 16-20 Hours Typical Use
Charger	90-264V AC Mains at 50-60Hz (Compatible with Artemis Universal Battery Charger)

GNSS NAVIGATION

Positioning	72-Channel GPS L1 C/A, GLONASS L10F, BeiDou B1l Galileo E1B/C. 2.0m CEP Position Accuracy

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 (Bottom Tracking)	180m
Beam Geometry	4 Beams, 2.4° Conical, Janus Configuration
Velocity Resolution	1mm/second

MESSAGING AND TRACKING

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

**Alternative battery arrangements available upon request*

Please note that all functions & specifications may be subject to change in line with our policy of continual product development.

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