

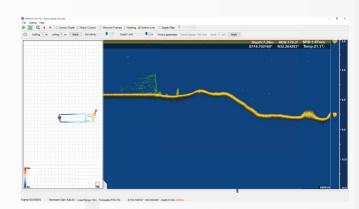
TERSUS TheDuckTM

TheDuck™ floats, and the Depth fixes.



TheDuck[™]

TheDuck™ represents a smart, efficient, and productive unmanned surface vessel equipped with a single-beam echo sounder. It provides a fast, dependable, and portable solution to perform bathymetric surveys in various environments, such as rivers, lakes, reservoirs, and coastal areas. With its advanced capabilities and user-friendly design, TheDuck™ is a powerful tool for professionals in bathymetry, offering unparalleled accuracy and precision in the collection of positioning and depth data. TheDuck™ is sure to meet your needs and exceed your expectations.

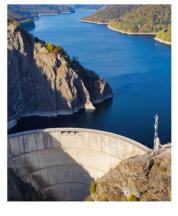




Application Scenario









Rivers lakes reservoirs coastal areas

Features



Versatile Small USV for Bathymetric Surveys

Experience exceptional versatility with TheDuck™, a small USV designed for precise bathymetric surveys of lakes, inland rivers, and coastal areas.



Enhanced Safety

Equipped with two plug-in mental ducted propeller, TheDuck™ effectively reduces the risk of entanglement with fishing nets, water plants, and surface debris, enhancing operational safety.



Effortless Operation

Simplify your project with one-man operation throughout the entire process. From on-site transport to installation, operation, and data collection, TheDuck™ offers convenience and efficiency.



Optional Echo Sounder

TheDuck™ is equipped with a built-in single-beam echo sounder (100 meters@455 kHz or 300 meters@200 kHz).



Unmatched Performance

TheDuck™ boasts a lightweight, strong, and stable M-shaped design with a hull made of polymer PP alloy, ensuring optimal performance in various environments.



Expanded Capabilities

Maximize TheDuck™'s potential by equipping it with Oscar/Oscar-TAP/Luka, unlocking a wider range of applications.



Seamless Data Transmission

Enjoy enhanced data transmission capabilities with TheDuck™'s two omnidirectional dual 2.4GHz RF antennas. Transmit data over longer and more stable distances (up to 2km), with auto-return functionality in case of signal loss.



Real-time Data Management

Powered by Android-based software, TheDuck™ provides real-time data display and automatic data recording, ensuring seamless job execution and efficient data management.

Technical Specifications



TheDuck[™]

Physical		
Hull Dimension:		1000*530*340mm
Weight:	7KG(w/o	instrument and battery)
		18KG(Maximum Load)
		22KG(Normal Weight)
Material:		High Strength PP Alloy
Hull Design:		M-Shaped
Anti-Wave & Wind:	3rd Wind	Level and 2nd Wave Level
Water Proof:		IP67
Power		
Rechargeable Lithiur	n Battery:	8S 29.6V 31.5Ah x2
Battery Weight:		4.5kg X2
Battery Endurance:		6 Hours x2(run at 2m/s)
Maximum Speed:		7m/s
Propeller type:	2 plug-in	mental ducted propeller
Type:		Electric

g and reverse without steering engine	
BDS, GPS, GLONASS, GALILEO, QZSS	
atic Positioning Accuracy(RMS)	
±(8mm+1ppm)	
±(15mm+1ppm)	
lethod	
Real time RF peer-to-peer transmission	
2KM	
7'' high-definition display screen	
IP67	
Real-time displays USV control data,	
ositioning status, video data, and power	
ers	
esolution 1080P, video format H264	

ES200 Single Beam Echo Sounder		
Sounding Range		
0.15m to 10	00m, 0.15m to 300m (Optional)	
Frequency	455KHz, 200KHz(Optional)	
Beam Angle:	5°(455KHz/200KHz)	
Sound velocity Setti	ng:	
Autom	atic or Manual 1350 – 1750m/s	
Draft:	0~10m	
Sounding Accuracy:		
1cm±0	.1%*D (D is the depth of water)	
Resolution:	1cm	
Data Storage:	Automatic Storage, 16GB Memory	
Data Format:	tsl2, csv, txt	
Operating Tempera	ture: -5°C - 50°C	



Tersus GNSS Inc.

Right to the point.

Tersus GNSS is a leading Global Navigation Satellite System (GNSS) solution provider. Our offerings and services aim to make centimeter-precision positioning affordable for large-scale deployment. Founded in 2014, we have been pioneers in design and development GNSS RTK products to better cater to the industry's needs. Our portfolios cover GNSS RTK & PPK OEM boards, David GNSS Receiver, Oscar GNSS Receiver and inertial navigation systems.

Designed for ease of use, our solutions support multi-GNSS and provide flexible interfaces for a variety of applications, such as UAVs, surveying, mapping, precision agriculture, lane-level navigation, construction engineering, and deformation monitoring.

Descriptions, specifications and related materials are subject to change.

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To learn more, please visit: www.tersus-gnss.com Sales inquiry: sales@tersus-gnss.com Technical support: support@tersus-gnss.com