BALI USV100

Autonomous bathymetry

Unparalleled performance on water

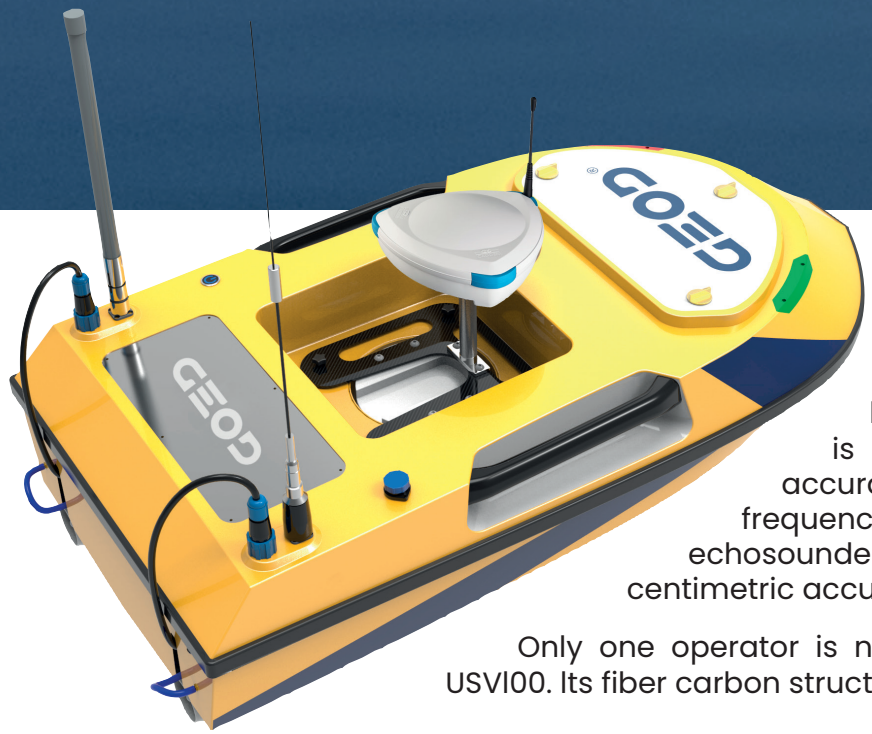
Hydrojet propulsion ideal for low depth sounding
Full day operation (2 knots)
100% automated bathymetry

GEOD® powered

Centimeter RTK or SBAS multiconstellation GNSS
Connected (UHF, GSM, Wifi)
Single Frequency (SF) and Dual Frequency (DF)

Robust and lightweight

One surveyor can operate it
Ultra-resistant carbon fiber hull
Ideal for inland waters surveys and mining industry



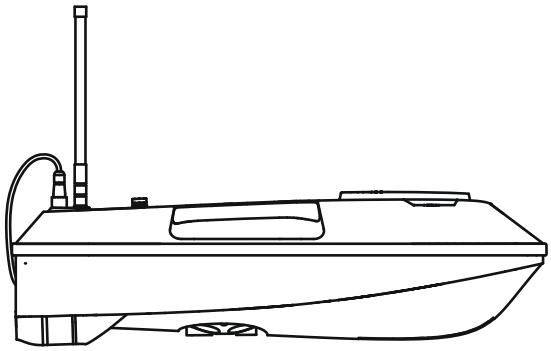
BALI USV100 is a complete bathymetric survey solution, which is simple to operate and extremely accurate. It comes with either a single frequency (SF) or a dual frequency (DF) echosounder for sounding up to 200m with a centimetric accuracy.

Only one operator is needed to deploy and operate BALI USVI00. Its fiber carbon structure make it easy to carry.

GEOD® Parc du Petit Chatelier, 359 route de Sainte Luce, 44300 Nantes | FRANCE | info@cadden.fr | +33 (0)251 824 646 I **geodproducts.com**

Technical characteristics	
Positioning	GPS, Glonass, Galileo and BeiDou dual-frequency RTK (1cm) - SBAS (0.5m)
Sounding*	
• 450kHz frequency	Range : 0,15m - 100m Accuracy : 0.2% of depth range or 2cm Angle beam : 5°
• 200kHz frequency	Range : 0,4m - 200m Accuracy : 0.2% of depth range or 2cm Angle beam : 9°
• 30kHz frequency	Range : 0,4m - 200m Accuracy : 0.2% of depth range or 2cm Angle beam : 26°
Communication	GSM Long-range UHF (403-473MHz) Wireless LAN (2.4GHz)
I/O interface	Ethernet Wifi
User interface	Full system configuration Mission planning Real time monitoring Real time navigation Bathymetric data cleaning
Data format	
• Position	Latitude, Longitude, Altitude (WGS84)
• Sounding	Water depth (meter)
Data output	NMEA0183
Software interface	Web browser (iOS, Androïd, Windows)

*Other configurations available on request



USV characteristics	
Hull material	Carbon fiber
Size	105 x 55 x 38cm
Weight	17kg
Draft	18cm
Engine	Hydrojet
Speed	5m/s max.
Endurance (1.5m/s speed)	6h minimum
Remote controller range	1km
Wireless base station range	2km

Standard delivery

1 USV
1 rechargeable battery
1 wireless base station
1 remote controller
1 BALI (smart antenna + echosounder)
1 transit case
1 camera

Optional delivery

Additional battery
BALI stand-alone mounting kit



Easy to carry



Compact

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