

BALI USV200

Multibeam autonomous bathymetry

Performance & Polyvalence



Hydrojet propulsion and multibeam depth sounder integrated «flush» into the hull

Suitable for port areas, inland waters, lakes, rivers... and for very shallow areas (15 cm draught)

Full day operation (2 knots, up to 10 knots (5 m/s))

100% automated bathymetry, Compact and space-saving



Multibeam system

Multibeam sounder R2SONIC 2020

GNSS RTK inertial control, positioning and compasses

Hull celerimeter, Navigation and acquisition software : Hypack (HYSWEEP®) and QINSy



Multi-applications

Conventional and specific bathymetric surveys

Ideal for surveys of inland waters, ports, rivers...

Navigation safety, Dredging Control

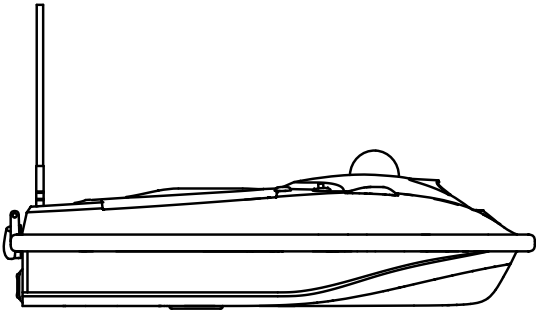


The BALI USV200 multibeam is a compact, powerful and robust solution.

With the multibeam sounder and propulsion integrated directly into the hull, the drone can safely operate in a very wide range of environments, such as in the middle of shallow areas or areas with complicated access.

Technical characteristics

Inertial control and positioning	Inertial control FOG or MEMS Multiconstellation GNSS, Beidou, Galileo Multi-frequency RTK
Soundeur R2SONIC 2020* <ul style="list-style-type: none"> • 200 to 400 Khz (700 Khz option) • Mini SVS 	Adjustable frequency range from 200 to 400 kHz and 700kHz High resolution : 2°x2° @400kHz, 1°x1° @700kHz Opening 10 to 130°, range 75m+ nadir
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 navigation Real Time Survey Setup and Tracking
Other sensors	Oceanographic Winch (SVP, multicapt) Scanner Laser Shore Based Control Post



Standards delivery

- 1 USV
- 1 rechargeable battery
- 1 wireless base station
- 1 remote controller
- 1 multibeam system R2SONIC 2020 with miniSVS
- 1 Inertial control, GNSS RTK compass
- 1 transit case on wheels
- 1 360° Camera
- 1 Collision avoidance system
- Drone navigation software and autopilot

Optionnels delivery

- Additional batteries
- Oceanographic winch with SVP or multi parameter probe
- Laser scanner
- Launching trolley
- R2SONIC modes: UHR 700 Khz, Truepix, Water column data
- PC Portable Rugged Terrain

*Other configurations available on request

**Vacuum, without echosounder or inertial sensor

USV Characteristics**

Hull material	Carbon fiber
Size	160 x 70 x 40cm
Weight	32 kg
Draft	15 cm
Engine	Hydrojet
Speed	5m/s max.
Endurance (1.5m/s speed)	6h minimum
Remote controller range	1km
Wireless base station range	2km

Conventional and Specific Multibeam Bathymetric Survey

