TOPODRONE
AFFORDABLE ACCURACY

AQUAMAPPER NEXT

TOPODRONE AQUAMAPPER NEXT is a solution for determining the depths of freshwater and marine areas, it perfectly combines high survey speed, efficiency and accuracy, successfully challenging traditional methods such as boats.

- Depth determination up to 200 m.
- Sediment inspection at the reservoir bottom.
- Tracking changes in reservoir volumes.
- Water transportation routes monitoring.
- Water bodies mapping.

The bathymetric scanner is controlled from the remote control of the drone, no need to deploy the device as a boat, made of anodized aluminum, works at shallow depths up to 20 cm, salt water resistance, high accuracy data and non-RTK operation, full integration with DJI Matrice 350 RTK, emergency undocking system.

Specification

Common
Country of origin	Switzerland
Warranty	12 month
Wight	2.5 kg
Dimensions	16.6 x 51.8 x 23 m
Operating temperature range	–10 ... +50 °C

GNSS
Receiver type	PPK
Number of channels	1408
Frequency	Up to 20 Гц
Accuracy	Up to 5 cm XYZ
GPS support	L1, L2, L5
GLONASS support	G1, G2, G3
BeiDou support	B1I, B2I, B3I, B1C, B2a, B2b
Galileo support	E1B/C, E5b
SBAS support	L1C/A
QZSS support	L1C/A, L1S, L2C
Working without reference points	Yes
Working in PPK mode	Yes
Recording GNSS data to microSD	Yes

Bathymetry
Operational cruising speed	3,5 m/s
Depth measurement range	from 0,5 to 200 m (200 kHz)
	from 0,3 to 100 m (450 kHz)
Device immersion depth	20 cm
Acoustic frequency	200 kHz / 450 kHz
Beam width	10° / 5°, Conical (–3dB)
Transmit pulse width	10 ... 200 msec
Repetition rate (ping)	Up to 100 Hz
Sampling rate	Up to 100 kHz
Temperature accuracy	0,1 °C
Stabilization	2-axis, +- 90°
Data output format	ASCII TXT, NMEA0183