

GEOMATE

Super Base, Performance Fighter



GEOMATE TRIMARAN 1200



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Trimaran 1200 — A non-powered trimaran purpose-built for ADCP discharge measurement. Hydrodynamic hull ensures stable attitude; foldable design enables easy transport. Compatible with mainstream ADCPs, providing a complete carrier solution for river flow monitoring.

TECHNICAL SPECIFICATIONS

Physical

Size	1180 × 960 × 250 mm
Weight	12 kg
Height of Compass Bracket	9 cm
ADCP Mounting Hole	16 cm
ADCP Compatibility	RiverStar, RiverPro, RiverRay, and other ADCPs
Material	PE
Color	Orange
Resistant to Flow Rate	5 m/s
Waterproof	IP67
Tow Rope	Stainless Steel Multi-Strand Wire, Φ5 mm × 4 m
Hull Design	Foldable Trimaran, All-in-One Storage

Radio Station

Power Interface	USB
Interface	RS232/RS485/RS422 (On Vessel), USB (On Shore)
Frequency	900 MHz
baud rate	4800, 9600, 19200, 57600, 115200 and 153600 available
Transmission Distance	Standard 1500 m, Maximum 3000 m (Line of Sight)
Built-in Battery	16.8 V/4000 mAh Lithium-ion Battery Cell
Battery Life	12 h
Charging Time	1.5 h
Display	Tri-Color LED (Power, Run, Comm, Charge)
Waterproof	IP67
Operating Temperature	-20°C~+60°C
Extend	Optional External RTK, GPS Compass

Compass (Optional)

Satellite System	GPS: L1, BDS: B1, GLONASS: G1, Galileo: E1, L-Band
Time Accuracy	20 ns
Startup Time	Cold start < 60 s, warm start < 10 s
SBAS	2-Channel, Parallel Tracking
Standard Positioning Accuracy (RMS)	Single Point: 1.5 m; SBAS: 0.5 m
Authorizable Positioning Accuracy (RMS)	Single Point: 1.2 m; SBAS: 0.3 m; Atlas: 0.3 m
Heading Accuracy	1.5°RMS (Standard), 0.75°RMS (Authorizable)
Roll/Pitch Accuracy	<1.5°
Heave Accuracy	0.3 m
Communication Interface	2× RS232 Ports, 1 half-duplex RS422 (TX) Port
Baud Rate	4800~115200 bps
Operating Voltage	6~36 VDC
Operating Temperature	-40°C to +70°C
Waterproof	IP66/IP69

*Specifications are subject to change without notice.