

**Aquarius** exceeds the expectations of the rigorous and demanding world of Marine Surveying. With its dual-frequency LRK<sup>®</sup> kinematic processing technology, a standard renowned for its outstanding performance, you get fast, realtime centimeter-level positioning and fully operational radio link up to 40 km. With LRK<sup>®</sup>, you will be able to work at greater distances than conventional RTK. Aquarius also comes in a single-frequency version featuring our KART technique.

## FEATURES AND BENEFITS

- Standard Supply List
- Graphical menus including zoom function
- Aquarius Configurations and Standard Supply
- Quality Control menus: GPS, radio, precision, etc.
- L1 KART centimeter real-time positioning (Aquarius-01)
- L1/L2 LRK<sup>®</sup> centimeter real-time positioning (Aquarius-02)
- User Coordinate System: - Local datum, projection, geoid model
- Navigation Functions available using TRM100 - Profile and homing modes



## TECHNICAL SPECIFICATION

### GPS/GNSS

- 16 x L1 channels (Aquarius-01 & 02)- 12 x L2 channels (Aquarius-02 only)
- C/A code and L1 phase, P code and L2 phase with multi-path processing
- Differential modes: WAAS/EGNOS, Numeric RTCM Version 2.2, messages 1, 3, 5, 9, 16, 18 & 19

### INTERFACES

- Integrated TRM100 Navigation & Control terminal, 1/4 VGA screen
- GPS and Radio Antenna connectors: 1 female TNC (GPS) and 1 or 2 female TNC (Radio)
- 4 two-way I/O ports (one RS232, three RS422) with baud rates from 1200 to 115200 bauds
- AUX port (1 PPS output, external event input, etc.)
- TRM100 remote display via VGA output
- NMEA 0183 messages: GGA, GLL, VTG, GSA, ZDA, RMC, GRS, GST, GSV, GMP
- User messages via ConfigPack

### ELECTRICAL

- Power source: 9 to 36V DC, floating input
- Consumption: 10 to 21 W depending on configuration used

### ENVIRONMENTAL

- IP 52 compliant, ultra-resistant aluminum case
- Operating temperature range: -20 to +55 °C (antennas: -40 to +70 °C)
- Storage temperature range: -40 to +70 °C
- Vibration: EN 60945 & ETS 300 019 (Shocks)
- EMI: EN 60945

### PHYSICAL

- H x W x D: 125 x 245 x 305 mm (4.92 x 9.64 x 12")
- Weight: 4.2 kg (9.26 lb)

Note: Dynamic Positioning Services reserve the right to amend this specification without prior notice.