eSA2

e-survey

PORTABLE SMART ANTENNA FOR GIS APPLICATIONS

■ Small, yet Powerful

The eSurvey eSA2 Supports BDS/GPS/GLONASS/Galileo/QZSS Five General Constellations, Comprehensive GNSS signal tracking, 1408 Channels, fully supports BDS-3

■ Satisfy All Your Delicate Needs

The eSurvey eSA2 is competent for various survey& lofting tasks, such as road construction, power line survey, site leveling control, CAD application etc.

■ High-Precision GIS Data Collection

Embedded with a high precision GNSS module that is capable of tracking GPS, BDS, GLONASS, GALILEO, QZSS and SBAS constellations. Therefore, it supports centimeter-level high precision positioning, support CORS differential data positioning

■ Rugged, Compact, Portable

Protected by metal shell, the eSurvey eSA2 is designed to be high strength. Nonetheless, it still presents great heat dispersion, and weighs lower than 210g.

The eSurvey eSA2 is a rugged, compact, wearable, wire-free GIS data collector that efficiently captures high-quality field data and allows you to work in multiple survey scenarios.

Connecting the eSurvey eSA2 to mobile devices or PC with Android and Windows operating systems is faster than ever before, thanks to its built-in Bluetooth technology. We are now proud to present you the all new eSurvey geospatial solutions, with different mobile applications can be optioned to enhance your eSA2 user experience. Bring it anywhere, without the worry of cables.

Specification

GNSS Performance

OEM board	unicorecomm-UM980
Channels	1408
Satellites tracking	■ GPS: L1C/A, L1C, L2P(Y), L2C, L5 ■ GLONASS: L1, L2 ■ GALILEO: E1, E5a, E5b ■ BDS: B1I, B2I, B3I, B1C, B2a, B2b, B2b ■ QZSS: L1, L2, L5 ■ SBAS: upgraded via future firmware upgrade
Update rate	50Hz
Position accuracy	RTK: 0.01 m + 1 ppm CEP
Initialization time	≤5 s (Typical)
Cold start	≤30 seconds
Hot start	≤3 seconds
Speed accuracy	≤0.03m/s

Electrical

Battery	Built-in, Non-replacable, Lithium Polymer Battery 8.4 V / 1800 mAh.
Working time	≥ 10 hours
Power	DC 5V/2A

Data Interface

Bluetooth	Yes
Type-C port	1 Type-C port

User Interface

Button	Power button x1
Indicator	■ Power indicator x1 ■ Bluetooth indicator x1 ■ Differential data indicator x1 ■ satellite indicator x1

Physical

Dimension	118 mm x 52mm x 36 mm
Weight	≤210 g

Environment

Operating temperature	-20°C - +75°C
Storage temperature	-40°C - +85°C
Water/dust-proof	IP67
Shock resistance	1.6 m free drop
Humidity	95% No condensation