

eSA3

PORTABLE SMART ANTENNA FOR GIS APPLICATIONS

Proudly developed on a brand-new platform, and built upon our most popular eSA2, the eSurvey eSA3 is an all-new, easy-to-use, wearable, portable smart antenna that provides professional-level positioning data to any Android & iOS devices.



Full Constellations and Multi-frequency

The eSA3 supports BDS/GPS/GLONASS/Galileo/QZSS constellations, comprehensive GNSS signal trackings, 1408 channels, and fully supports BDS-3.

All-in-view RTK Positioning

Embedded with a high-precision GNSS module, the eSA3 supports centimeter-level CORS differential data positioning. Enjoy lightning speed of fixed positioning, cold start $\leq 30s$, hot start $\leq 3s$.

Ideal for Multiple Applications

The eSA3 is competent for various survey & lofting tasks, for example, road construction, power line survey, site leveling control, CAD application, etc.

High-performance Integrated Antenna

With a customized high-gain quadrifilar helix antenna and a built-in Bluetooth feature, the eSA3 can be easily connected to any handheld devices. No need for expensive and heavy data collectors anymore.

Rugged, Compact, and Portable Design

The eSA3 is designed to work in the toughest environments. It presents great heat dispersion and weighs 220g, which is ideal for mobile surveys. Thanks to its IP67 protection, the eSA3 has the highest level of dust protection and is able to withstand low-pressure water jets from all directions. Carry the eSA3 in an armband bag or a shirt pocket using its metal clip on the back, or use an external connector to attach it to a survey pole - enjoy flexible wearable modes to make your job even easier.



Website



Social media

Product Specification

eSA3

PORTABLE SMART ANTENNA FOR GIS APPLICATIONS



GNSS Performance

Channels	1408
Satellites tracking	■ GPS: L1C/A, L2P(Y), L2C, L5 ■ GLONASS: L1, L2 ■ GALILEO: E1, E5a, E5b ■ BDS: B1I, B2I, B3I, B1C, B2a, B2b1 ■ QZSS: L1, L2, L5t ■ SBAS: Support
Position accuracy	■ H: $\pm (8+10^{-6} \times D)$ mm ■ V: $\pm (15+10^{-6} \times D)$ mm
Cold start	≤ 30 seconds
Hot start	≤ 3 seconds
Speed accuracy	≤ 0.03 m/s

Electrical

Battery	Built-in, Non-replacable, Lithium Polymer Battery 3.7V / 5200 mAh.
Working time	≥ 15 hours
Input voltage	5V dc / 2A

Data Interface

Bluetooth	Yes
Type-C port	1 Type-C port
ROM	8GB

User Interface

Button	Power button x1
Indicator	■ Power indicator x1 ■ Bluetooth indicator x1 ■ Satellite indicator x1

Physical

Dimension	135 mm x 42mm x 64 mm
Weight	≤ 220 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