⊕-survey

eSA2

PORTABLE SMART ANTENNA

The eSurvey eSA2 is an easy-to-use, wearable, portable smart antenna that provides professional-level positioning data to any Android devices. And with the designated app support, the eSA2 can be paired with iOS devices as you wish.

GIS

Full Constellations and Multi-frequency

The eSA2 supports BDS/GPS/GLONASS/Galileo/QZSS constellations, comprehensive GNSS signal tracking, 1408 channels, fully supports BDS-3.

Built-in Bluetooth Feature

With a built-in Bluetooth feature, the eSA2 can be easily connected to devices with Android operating systems. No need for expensive and heavy data collectors anymore.

Ideal for Multiple Applications

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

All-in-view RTK Positioning

Embedded with a high precision GNSS module, the eSA2 supports centimeter-level CORS differential data positioning.

Rugged, Compact and Portable Design

Protected by a metal shell, the eSA2 is designed to work in the toughest environments. It presents great heat dispersion and weighs 210g, which is ideal for mobile surveys. Carry the eSA2 in an armband bag, or a shirt pocket, or attach it to a pole using an additional pouch- enjoy flexible wearable modes to make your job even easier.

Website   Social media

Product Specification

eSA2

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GNSS Performance	
Channels	1408
Satellites tracking	■ GPS: L1C/A, L2P(Y), L2C, L5 ■ GLONASS: L1, L2 ■ GALILEO: E1, E5a, E5b, E6 ■ BDS: B1I, B2I, B3I, B1C, B2a, B2b ■ QZSS: L1, L2, L5, L6 ■ SBAS: Support
Position accuracy	■ RTK: 0.01 m + 1 ppm CEP ■ Single: 1.5m
Initialization time	≤5 seconds (Typical)
Cold start	≤30 seconds
Hot start	≤3 seconds
Speed accuracy	≤0.03 m/s

Electrical	
Battery	Built-in, Non-replaceable, Lithium Polymer Battery 7.4 V / 1800 mAh.
Working time	≥10 hours
Input voltage	5V dc / 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 52 mm x 36 mm
Weight	≤210 g

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