

# eSA2

## PORTABLE SMART ANTENNA FOR GIS APPLICATIONS

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.



### 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.

### All-in-view RTK Positioning

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

### 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.

### 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.

### Max 110° Tilt Survey: A Different Way of Working

- Quickly measure accurate points while standing or walking without leveling the pole.
- Concentrate on where the pole tip needs to go, which is especially useful during a stakeout.
- Easily start a survey in environments that are hard to reach, such as building corners and slopes.
- No longer worry about the movement of the pole when measuring, provided that the pole tip is stationary.



Website



Social media

# Product Specification

## eSA2

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#### GNSS Performance

Channels	1408
Satellites tracking	<ul style="list-style-type: none"><li>■ GPS: L1C/A, L2P(Y), L2C, L5</li><li>■ GLONASS: L1, L2</li><li>■ GALILEO: E1, E5a, E5b, E6</li><li>■ BDS: B1I, B2I, B3I, B1C, B2a, B2b</li><li>■ QZSS: L1, L2, L5, L6</li><li>■ SBAS: Support</li></ul>
Position accuracy	<ul style="list-style-type: none"><li>■ RTK H: 2 cm+1ppm, V: 3cm+1ppm</li><li>■ Single H: 1.5 m, V: 2.5 m</li></ul>
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	<ul style="list-style-type: none"><li>■ Power indicator x1</li><li>■ Bluetooth indicator x1</li><li>■ Differential data indicator x1</li><li>■ Satellite indicator x1</li></ul>
Buzzer	Yes

#### Physical

Dimension	118 mm x 52 mm 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