

RTK Handheld 2 Mapping Kit

Use your smartphone to create centimeter accurate maps. Capture precisely geotagged data. Perform surveying jobs.



More info about the product!



RTK Handheld 2 Mapping Kit SKU is: AS-PRO-HANDHELD2-0-01

Get a discounted bulk price on this product for orders of 50 units or more. Contact us at info@ardusimple.com to get a quote.

Description

With the RTK Handheld 2 Mapping and Surveyor Kit you will have everything you need to start using your mobile phone for surveying and mapping tasks with GPS and centimeter level accuracy.

For Android users, use your preferred app and connect to the receiver via USB or Bluetooth.

For iOS users, currently only SW Maps app is supported.

Check the full list of [Compatible software](#).

To achieve centimeter precision, you will need to configure your NTRIP credentials. Check out our database of [free and paid NTRIP services around the world](#).

Good to know:

- Smartphone is not included

Includes (everything pre-assembled and pre-configured):

- RTK receiver with ZED-F9P
- Phone holder for landscape use
- Adhesive mount for portrait phone use
- 2x double USB-C OTG right angle cable (15cm)
- Hand holder
- Adapter to install the kit in a surveyor pole (1/4" male thread to surveyor pole female thread)
- IP67 Waterproof transport case with pre-cut foam to fit all products and accessories

Product Change History:

- -00: initial version
- -01: plastic improvements (from 3D printed to injected plastic). Change to handgrip with counterweight for easier verticality.

Specifications

- Interfaces: USB, Bluetooth, BLE
- Power consumption: 100mA @ 5V (8 hours of work with typical phone and surveying software running)
- Power supply: USB or JST connector
- Built-in battery: no (uses phone battery or powerbank)
- IP Rating: IP53 (can be used under light rain)
- Applications: Survey, Mapping, Construction, Farming, 3D Scanning, Geofencing
- Weight of the product without mobile phone: below 400g

ZED-F9P features

- Centimeter level precision
 - <1cm with a base station up to 35km
 - <1cm with NTRIP up to 35km
 - <4cm with SSR corrections
 - <1.5m in standalone mode
 - <0.9m standalone with SBAS coverage
- Update rate
 - Default: 1Hz
 - With maximum performance: up to 10Hz
 - With reduced performance: up to 20Hz
- Multi band: L1, L2 and E5b support
- Multifrequency and Multiconstellation:
 - GPS: L1C/A L2C
 - GLONASS: L1OF L2OF
 - Galileo: E1-B/C E5b
 - BeiDou: B1I B2I
 - QZSS: L1C/A L2C
 - SBAS: WAAS, EGNOS, MSAS, GAGAN and SouthPAN
- Start-up times:
 - First position fix: 25 seconds (cold), 2 seconds (hot)
 - First RTK fix: 35 seconds (cold)
- RAW data output in UBX format
- Base and Rover functionality
- Operating temperature Range: -40 to +85degC
- Documentation: RED, RoHS

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