

Specifications

GNSS characteristics

- 692 GNSS channels
 - GPS L1C/A, L1C, L2C, L2E, L5
 - GLONASS L1C/A, L2C/A, L2P, L3
 - BeiDou B1, B2, B3
 - Galileo GIOVE-A, GIOVE-B, E1, E5A, E5B
 - SBAS L1C/A, L5

- Initialization:
 - time <10s, reliability >99.99%

- Supported data formats:
 - RTCM 2.1, RTCM 2.3, RTCM 3.0, RTCM 3.1, RTCM 3.2, CMR CMR+

- Output data formats:
 - NMEA 0183, PJK plane coordinates, Binary code, Trimble GSOF

Inertial Measurement (Model K20s IMU)

- Tilt Angle: up to 60 degrees
- Accuracy: down to 2cm

Positioning Accuracy

Code differential GNSS positioning

- Horizontal: ±0.25m+1ppm
- Vertical: ±0.50m+1ppm
- SBAS positioning accuracy: typically <5m 3DRMS

Static

- Horizontal: ±2.5mm+0.5ppm
- Vertical: ±5mm+0.5ppm

Real-time kinematic (RTK)

- Horizontal: ±8mm+1ppm
- Vertical: ±15mm+1ppm

Network RTK

- Horizontal: ±8mm+0.5ppm
- Vertical: ±15mm+0.5ppm

RTK initialization time

- 2~8s

Physical characteristics

Size

- 16.3 x 16.3 x 9.6 cm

Weight

- 1.33 kg (with built-in battery)

User interface

- Five Indicator lights, Two buttons
- OLED color screen, 1 inch, 128x64 res.
- Linux System

I/O interface

- 5PIN LEMO external power port+RS232
- 7PIN external USB(OTG)+Ethernet
- Bluetooth 2.1+EDR standard
- Bluetooth 4.0 standard, support android, ios connection

Memory

- 8GB SSD internal storage
- Support external USB storage (up to 32 GB)
- Automatic cycle storage
- Changeable record interval
- Up to 50Hz raw data collection

Operation

- RTK rover & base
- RTK network rover: VRS, FKP, MAC
- NTRIP, Direct IP
- Post-processing

Environmental characteristics

- Operating temperature: -45° to +75°C
- Storage temperature: -55° to +85°C
- Humidity: 100% condensing
- IP68 waterproof, sealed against sand and dust
- Drop: 2m pole drop on concrete

Power characteristics

- Two Li-Ion batteries, 7.4 V, 10,000 mAh
- Battery life: >14h (static mode)
 - >7h 10h Base
 - >8 to 14h Rover
- External DC power: 9-28 V

Cellular module characteristics

- WCDMA/ CDMA2000/ TDD-LTE/ FDD-LTE 4G
- Compatible with 3G GPRS/ EDGE

WebUI

- Configure and monitor receiver by web server via Wi-Fi or USB cable

NFC

- Close range (shorter than 10cm) automatic pair between receiver and controller (need NFC chip in controller)

Wifi

- 802.11 b/g standard
- Hotspot: allow device to access in
- data link: broadcast differential data

Voice Guide

- intelligent voice technology provides status indication and operation guide
- Chinese, English, Korean, Russian, Portuguese, Spanish, Turkish and user define

Standard system components

- K20s GNSS Receiver & built-in battery
- Charger and adapter
- All-direction antenna
- 30 cm pole extension (with base only)
- 7-pin to OTG cable
- Engineering Star (Windows)
- 1 year warranty

Optional system components

- Battery Case SA-6003
- Data collectors
 - H3 plus (Android), H6 (Android)
 - T17N (Windows Mobile)
 - S50 (Android)
- Field software
 - Field Genius (Windows)
 - SurvX (Android)
 - Engineering Star 5.0 (Android)
- 1-2 year warranty extension

KOLIDA
Professional's Choice

K20s

A High Performance and Innovative Surveying GNSS Solution

YouTube K20s

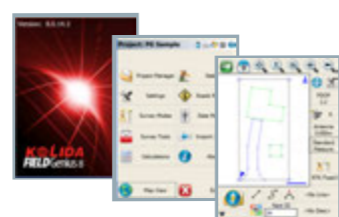


- 692 channels GNSS Mainboard, All Constellations Supported
- Inertial Measurement + GNSS Positioning, More Accurate and Faster
- Up to 60° Tilt Angle, More Convenient to Measure in Difficult Terrain
- True-Color Screen, Simplified Operation Flow
- 10,000 mAh battery, A Whole-day Working With only One Recharge

Field Software



Engineering Star



Field Genius



Surv X

KOLIDA
Professional's Choice

GUANGDONG KOLIDA INSTRUMENT CO., LTD.

Add: 7/F, South Geo-information Industrial Park, No.39 Si Cheng Road, Tian He IBD, Guangzhou 510663, China
Tel: +86-20-22139033 Fax: +86-20-22139032
Email: export@kolidainstrument.com market@kolidainstrument.com http://www.kolidainstrument.com