Kilichain

Light Weight
Full Constellation
Little and Portable
Flexible Use with Cellphone
High Precision Network RTK Rover

Palm3

Kilichain

-Small size and high integration, the system can be integrated with high capacity battery, GNSS antenna, satellite positioning module, Bluetooth, and more;
- High precision and low power consumption, adopting five constellations and six frequencies such as BeiDou, GPS, GLONASS, Galileo, QZSS, etc., It can work in complex environments, ensuring positioning accuracy.
-Adopts universal standard TYPE- C charging interface, supports rechargeable battery charging and TYPE- Cup grade,
- Stand ard IP45 water and dust proof design,
- Built-in 4.0 Bluetooth module, support a variety of Android cellphone connection;
- Ultra-long life, low power consumption, built-in 4800m Ah high-capacity battery, supporting more than hours of endurance use;
-The total weight of the device is 0.55 kg, which makes it compact, light weight and easy to carry;
- Versatile application, it can be hand-held or screwed directly onto the centering rod for measurement;
-Software SW Maps has functions such as measurement, point placement, CAD placement and more;
- Software supports all kinds of CORS systems, high-precision RTK positioning service;

Forestry: survey, planning and management of forest resources

Agriculture: for land management, crop monitoring and precision farming practices

Industry: infrastructure planning and management

Outdoor travel: precise positioning, safe and reliable, providing route design and rescue implementation for travel

Urban planning and management: including land use planning and the layout of urban infrastructure

Land surveying: providing data reference for land planning, allocation, and sale; real estate management

Environmental protection: Locate pollution sources and dynamically monitor environmental quality

Power inspection: Provide rapid positioning for inspection, management and maintenance of power infrastructure

Traffic management: real-time monitoring of traffic flow and spatial analysis of road networks

Water Conservancy: It can be used for water resources management, flood warning and disaster risk assessment.

Disaster response: quickly obtain geographic location information and disaster data at the disaster site

Education and Research: For use in data collection and spatial analysis in geographic education and research

Specifications

GNSS	
Channels	1408
GPS	L1C/A, LIC, L2P(Y), L2C, L5
GLONASS	G1,G2,G3
GALILEO	E1, E5a, E5b, E6
BDS	B11, B2I, B3I, B1C, B2a , B2b
QZSS	L1C/A,L1C,L2C,L5
SBAS	L1C/A
Positioning rate	Default 1 HZ, Maximum 20 HZ
Satellite signal	＜1s

GNSS Accuracies (1)	
Real time kinematics (RTK)	Horizontal: 8mm + 1ppm RMS Vetical: 15mm + 1ppm RMS Initialization time:< 5 s Initialization reliability: > 99.9%
Single point	Horizontal: 1.5m Vertical: 2.5m
Positioning rate	Default 1 HZ

Physicals	
Size	Φ165mm×70mm
Weight	0.55kg
Working	-45°C to +75°C (-49°F to +167°F)
Storage temperature	-55°C to +85°C (-67°F to +185°F)
Ingress protection	IP54 waterproof and dustproof
Shock & vibration	Survive from 2m drop
Indicator	2 LED indicators 1 Physical button

Communications	
Positioning data	NMEA0183
Differential data	RTCM3.3/3.2/3.1/3.0
Baud rate	115200
Interface method	Standard TYPE-C connector
Bluetooth	BT4.0

Eelectricals	
Input voltage	DC5V ≤1A
Battery capacity	4800mAh
Power consumption	1W
Battery life	≥16 hours (2)

*All specifications are subject to change without notice.
(1) Accuracy depends on the open sky, free of multipaths, optimal GNSS geometry and atmospheric condition. (2) Battery life is subject to the particular operating temperature.