

eRTK60

FULL-FEATURED VISUAL GNSS RECEIVER

The eSurvey new eRTK60 GNSS receiver integrates high performance GNSS, IMU and dual-camera technologies to provide more reliable and diverse measurement results. Visual survey technology enables you to measure the point without physically reaching it, thereby giving you more flexibility in the field and maximizing productivity in your projects. The upgraded built-in radio supports longer communication distances. The extended working endurance of the eRTK60 is guaranteed by its hot-swap batteries. Its colorful LED screen also offers a more intuitive working status and operation interface.



GNSS Receiver

Visual Survey: Measuring What You See

Visual survey technology provides accurate positioning coordinates from images captured in seconds. Measure what you see, get the coordinates of previously unreachable and signal-blocked points.

Colorful LED Display

View the primary status and basic information, set the work mode, and operate the device, allowing for more convenient and direct interactive actions.

CAD AR Stakeout: Improved Efficiency

CAD drawings are directly marked on the interface, thus there is no need to choose each point individually. The CAD AR stakeout is a highly effective tool for optimizing stakeout operations and simplifying complex construction tasks in a variety of construction scenarios.

Advanced Long-Range Tx/Rx UHF Modem

Integrated with the long range UHF modem, the eRTK60 is compatible with traditional major radio protocols. The maximum communication distance can reach 10 km with 1W transmit power in urban environments.

Hot-swappable Batteries: Providing Uninterrupted Service

Designed with a symmetric battery compartment and driven by sufficient charged batteries on hand, the hot-swap battery power system of the eRTK60 is meant to improve power availability while eliminating power-related downtime.



Website & Social media

Product Specification

eRTK60

FULL-FEATURED VISUAL GNSS RECEIVER



GNSS Performance		System
Satellites tracking	GPS	L1 C/A, L1C, L2P (Y), L2C, L5
	BDS	BII, BII, B3I, BIC, B2a, B2b
	GLONASS	L1, L2, L3
	Galileo	E1, E5a, E5b, E6
	QZSS	L1, L2, L5
	NavIC	L5
	SBAS	WAAS, GAGAN, MSAS, EGNOS, SDCM, BDS
	L-Band	B2b PPP (Only for the Asian-Pacific region), HAS ¹
	Channels	1408
	Signal reacquisition	< 1 second
Cold start		< 30 seconds
Warm start		< 20 seconds
Hot start		< 5 seconds
RTK signal initialization		< 5 seconds
Initialization reliability		> 99.9%
Update rate		20Hz
High precision static	H:	2.5 mm + 0.1 ppm (RMS)
	V:	3.5 mm + 0.4 ppm (RMS)
Static and fast static	H:	2.5 mm + 0.5 ppm (RMS)
	V:	5 mm + 0.5 ppm (RMS)
RTK	H:	8 mm + 1 ppm (RMS)
	V:	15 mm + 1 ppm (RMS)
Standard point positioning	H:	1.5 m (RMS)
	V:	2.5 m (RMS)
Code differential	H:	0.4 m (RMS)
	V:	0.8 m (RMS)
SBAS	H:	0.3 m (RMS)
	V:	0.6 m (RMS)
Correction data	RTCM V3.X, RTCM2.X, CMR	
Data output	GGA, ZDA, GSA, GSV, GST, VTG, RMC, GLL, Binary	
Power Supply		
Battery	Removable and rechargeable Hot-swappable Lithium-ion battery x 2 7.2 V ~ 3400 mAh x2	
Voltage	5-pin: 9 ~ 28V DC 2A, 15V/2A(DC Rated) Type-C: PD 12V/1.5A	
Working time	10 hours as UHF base with 2W transmitting	
Internet Modem		
Supported band	Global 4G LTE FDD: B1/B2/B3/B4/B5/B7/B8/B12/ B13/B18/B19/B20/B25/B26/B28 LTE TDD: B38/B39/B40/B41 WCDMA: B1/B2/B4/B5/B6/B8/B19 GSM: 850/900/1800/1900 MHz	
Visual Configuration		Visual Configuration
Visual stakeout		Visual survey
Pixel	2 MP	Pixel
Frame Rate	30 FPS	FOV
FOV	72°	Image accuracy
		2~4 cm, range 2~15 m

1: It will be supported through future firmware update.

2: It varies with the obstacle, terrain and protocols.