Eyr ER30 GNSS Receiver

Data Specifications

GNSS Signal Tracking [®]	GPS (L1C/A, L1C, L2P(Y), L2C, L5)
	BDS (B1I, B2I, B3I, B1C, B2a, B2b)
	GLONASS (L1, L2, L3) Galileo (E1, E5a, E5b, E6*)
	SBAS(L1, L2, L5)
	QZSS (L1, L2, L5, L6*)
No. of Channels	IRNSS (L5*)
	L-BAND*(B2b-PPP*)
	1408
High-precision static GNSS Surveying	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
Post Processing Kinematic	H:8mm + 1 ppm RMS / V:15 mm + 1 ppm RMS
(PPK / Stop & Go)	Initialization time: Typically 10 min for base and 5 min for rover Initialization reliability: Typically>99.9%
Code Differential GNSS Positioning	H:±0.25m+1ppm RMS V:±0.5m+1ppm RMS
-	SBAS:0.5m(H) / PPP:0.1m(H), 0.2m(V)
Real Time Kinematic (RTK)	H:8 mm+1ppm RMS / V:15 mm+1 ppm RMS
	Initialization time: Typically <10 s
Time to first Fix	Initialization reliability: Typically > 99.9% Cold start:< 45 s Hot start:< 30 s Signal re-acquisition:< 2 s
Tilt Survey Performance ³	Additional horizontal pole-tilt uncertainty typically less than
the burvey renormance	8 mm +0.7 mm / °tilt (2.5 cm accuracy in the inclination of 60°)
Hi-Fix	H:RTK+10 mm / minute RMS / V:RTK+20 mm / minute RMS
COMMUNICATION	
Communication	Bluetooth: 4.2 / 2.1+EDR, 2.4 GHz / NFC
	Wi-Fi: frequency 2.4 GHz, Supports 802.11 b / g / n
Internal UHF Radio	Frequency: 410-470 MHz Channel: 116
	Transmitting power: 0.5 W / 1 W / 2 W adjustable
	Supports multi-communication protocols: HI-TARGET,
	TRIMTALK450S, TRIMMARK III, TRANSEOT, SATEL, etc.
	Internal 7.2)//4000 mAt litting in a state shall be u
Internal battery [®]	Internal 7.2 V / 6900 mAh lithium-ion rechargeable battery. RTK Rover (Network) for 12 hours. Static: up to 15 hours
External power	Power consumption: 4.2W Dimensions (W×H): 130mm×79mm
	Charging:using standard smartphone chargers or external
	power banks.(Support 5V 2.8A Type-C USB external charging)
	Weight:≤0.97 kg (includes battery)
	Data storage:8GB ROM internal storage
Control Panel LED Lamp	Satellite, Signal, Power Physical button: 1
Camera	
Pixel	2MP&5MP
	Support real scene stakeout, image measurement,
Environment	working distance 2~15m
Water / Dustproof	IP68
Shock and vibration	MIL-STD-810G,
	Designed to survive a 2 m natural fall onto concrete
Humidity	100%, condensing
Operation temperature	-45 °C ~ +75 °C
Storage temperature	-55 °C ~+85 °C
mage Accuracy Stakeout/Image Measurement	Tunically 2cm/2cm~4cm
Stakeout/Image Measurement / O Interface	Typically 2cm/2cm~4cm
USB type C interface; SMA interface; I	Nano SIM card slot
Data Formats	
Output rate	1Hz-20Hz.
Static data format	GNS Rinex Dual Format Static Data
Network model	VRS, FKP, MAC; supports NTRIP protocol
CMR & RTCM Navigation outputs ASCII	RTCM 2.x, RTCM 3.x NMEA-0183
*Description and Specifications are subject to change withou	
1]GALILEO E6, QZSS L6, IRNSS L5, L-BAND can be provided by firmwar	e upgrade.
2]The measurement accuracy, precision, reliability and initialization time	
geometric distribution, observation time, atmospheric conditions and mu [3]Irregular operations such as rapid rotation and high-intensity vibration	

GNSS Receiver

SATLAB

Headquarters: Järnbrotts Prästväg, 2 421 47 Vastra Frolunda Goteborg, Sweden

Regional Offices:

Warsaw, Poland	
Jičín, Czech Republic	
Ankara, Turkey	
Scottsdale, USA	
Singapore	
Hong Kong, China	
Dubai, UAE	

www.satlab.com.se

SATLAB

