



## Features

### POST-PROCESSED ACCURACY

RECEIVER	KINEMATIC	STATIC	SEMI KINEMATIC	OTF
Single-frequency	sub-meter <sup>1</sup> , sub-foot <sup>2</sup>	sub-centimeter <sup>3</sup>	centimeter <sup>4</sup>	centimeter <sup>5</sup>
Dual-frequency	N/A	sub-centimeter <sup>6</sup>	N/A	centimeter <sup>7</sup>

1. Horizontal accuracy (HRMS). Requires 5-10 minutes of continuous tracking with at least 5 satellites and a PDOP less than 6. Multipath and ionospheric effects can affect final accuracy. Base station separation may affect accuracy by about 5 ppm (depending on the quality of the base station data).
2. Horizontal accuracy (HRMS). Requires 15-20 minutes of continuous tracking with at least 5 satellites and a PDOP less than 6. Multipath and ionospheric effects can affect final accuracy. Base station separation may affect accuracy by about 5ppm (depending on the quality of the base station data).
3. Horizontal baseline accuracy (HRMS). Requires 15-30 minutes of good data on a minimum of 4 satellites and a PDOP less than 6. Multipath and ionospheric effects can severely affect final accuracy. This horizontal accuracy usually translates into 1cm +/- 2 ppm.
4. Requires L1 frequency receiver that outputs quality code, Doppler and carrier phase observations, along with reliable real-time cycle-slip detection. EZField data collection software is designed to facilitate the semi-kinematic process. It allows you to easily initialize on an initialization bar or a known point.
5. Horizontal accuracy (HRMS). Requires 30 minutes of continuous tracking with at least 5 satellites and a PDOP less than 6. Base station must be within 10 km. Multipath and ionospheric effects can affect this accuracy. This horizontal accuracy usually translates into 2 cm +/- 2 ppm.
6. Static results require only 2-5 minutes of data to achieve centimeter accuracy. This horizontal accuracy usually translates into 1cm +/- 1 ppm (with good dual-frequency data).
7. OTF requires approximately 15 seconds of continuous tracking with at least 5 satellites and a PDOP less than 6. Multipath and ionospheric effects can affect final accuracy. This horizontal accuracy usually translates into 2 cm +/- 2 ppm.

### SUPPORTED GNSS PROTOCOLS\*

RINEX	Kolida	SiRF
Altus	NavCom	South GPS
CHC Navigation	Novatel	Stonex
COMNAV T300	Topcon	Zenite from TechGeo
SATLAB Geosolutions	Surveyor Plus from Carlson	u-blox
SXBlue from Geneq	SubX from Effigis	Unistrong
Hemisphere GPS	Pentax	ProMark 500 from Ashtech
Javad	EOS Positioning Systems	eXplorist Pro10 from Magellan
Juniper Systems	Septentrio	Ike GPS from SurveyLab

\* Protocols are added on a regular basis.

### COMPATIBLE DATA COLLECTION SOFTWARE

MicroSurvey FieldGenius (land surveying application)
Carlson SurvCE (land surveying application)
ESRI ArcPAD with OnPOZ GNSS Driver for ArcPAD (GIS application)
OnPOZ EZTag CE (GIS application)
OnPOZ EZField (land surveying application)
OnPOZ GNSS Control Panel
Ike GPS data acquisition software
BAP precision GeoAssist software
Geo-Plus VisionTerrain

### VIEW

Plan view to graphically analyze your survey
Project Manager view to manage your data with archive capability

### GRAPHICAL ANALYSIS

Number of satellites in view in a file
Satellite by satellite visibility in a file (pseudorange/carrier phase/Doppler)
Cycle-slip display
Observation files time span
Point and baseline error ellipse from Least Squares adjustment
Standardized Residual Histogram (from Least Squares adjustment)

### DATA EDITING

Site name, coordinates, antenna height and antenna model
Coordinates systems and geoid models
Time span
Total or partial satellite segment elimination
Export raw data in standard RINEX format

### AUTOMATED PROCESS

Baseline definition from imported static files
Trajectory definition from imported rover files
Internet scan to detect base station data that fits rover and static files
Outlier detection (bad data elimination)
Algorithm to reduce data noise
Ambiguity smoothing
Base station data interpolation
Ambiguity fixing
Semi-kinematic processing for L1
Baseline batch processing
Trajectory batch processing
Loop closure generation
Rigorous least-squares adjustment

### QA TOOLS

Loop closure report (closed and open loop)
Process summary report
Baseline summary report
Trajectory summary report
Network adjustment summary report
Residuals plot
Comparison between RTK and PPK positions (with delta N, E, H)

### AVAILABLE VERSIONS

	EZSurv Lite	EZSurv L1	EZSurv L1 L2
Sub-meter/Sub-foot	*	*	*
Static L1 fixe (sub-centimeter)		*	*
OTF L1 (centimeter)		*	*
Static L1/L2 fixe (sub-centimeter)			*
OTF L1/L2 (centimeter)			*

Each version is available with full GNSS capability or GPS only.



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