

EXPERIENCE the POWER & EFFICIENCY

of the World's Most Advanced Mobile GIS System

Measure the Size and Location of Any Distant Object

- The new ike1000TM integrates high accuracy GPS positioning with a laser rangefinder, 3D compass and a digital camera.
- The user simply needs to point, aim, and capture to instantly acquire accurate target location data and geo-referenced images.
- Create TrueSizeTM photos, allowing direct on-screen measurement as well as verification and data transfer to ESRI, Google Maps, Google Earth and other GIS platforms.

Saves Time & Money

- Red tape or fences barring the way? Simple. ike1000 lets users capture geospatial information where outmoded data capture techniques just don't work!
- Thousands of objects to document? ike1000 allows you to capture multiple objects from a single remote position.
- ike1000 allows simple integration with data capture applications like ArcPadTM, providing the most effective and efficient means to capture geospatial data and imagery.

Safety First, Always

- ike1000 allows field staff to remain safe and protected at all times. From a remote location, users can capture multiple target data without safety risks.



See how ikeGPS mobile
GIS systems are delivering
proven results



For more information or to purchase an ikeGPS, please visit www.ikeGPS.com or contact one of our business partners:

Altus Positioning Systems Inc.

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Office: (310) 541 8139 x228

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Why are so many mobile GIS users choosing ikeGPS?

- Portable, rugged all-in-one mobile GIS data capture device
- Integrated GPS, laser rangefinder, 3D compass and high resolution camera
- Capture accurate locations of multiple objects from a safe, standoff position
- Measure the sizes of objects directly from TrueSize™ photos
- Transfer data easily to GIS mapping and modeling platforms
- Simple workflow using one device saves time and improves accuracy
- Customized solutions for specific industry tasks and workflows
- Saves time and money by reducing crew size and capturing data more efficiently



ikeGPS Specifications

GPS

- With High Accuracy GPS upgrade
- SBAS accuracy: Sub-meter, <0.6m HRMS typical
- SBAS coverage areas (WAAS, EGNOS, MSAS, GAGAN)
- All other areas
- Autonomous accuracy: <1.5m HRMS typical
- Without High Accuracy GPS upgrade
- Accuracy: <2.5m CEP

General

- Time to first fix: <35 seconds
- Channels: 16 L1 frequency, C/A code

Physical

- Size 11" x 4.3" x 2.4" (280mm x 110mm x 60mm)
- Weight < 1kg (35 oz)
- Tripod Mount Standard Camera 1/4"
- Main Connections Power/USB/RS232
- Construction Magnesium alloy and Aluminum internal chassis
- Protection IP67 (Dust and Waterproof), MIL-STD-810F
- Shock 1m drop onto concrete
- Operating Temp. -10 to +50° C (14 to 122° F)
- Battery 14W Li-ion, Field replaceable
- Operation Time 8 hours typical *

Display

- Size 3.5" diagonal
- Type High visibility transfective (high visibility in sunlight)
- Resolution 320 x 240 pixels
- Touch Screen Resistive

Laser Distance Meter

Laser Range: ****

Model - Maximum Range

- ike100 - 100m
- ike300 - 300m
- ike1000 - 1000m

Laser Accuracy: ±0.3m (< 300 m), ±1.0m (> 300 m)

Wavelength: 905nm (invisible infrared)

Eye Safety: Safe to naked eye over all distances.

Class: Class 1 (FDA 21 CFR 1040.10 and IEC60825-1:2001)

Computer

- Processor: 520MHz Intel® PXA 270 processor
- RAM: 128MB
- Non-volatile System Memory: 512MB Flash ROM
- Non-volatile Storage Memory: Removable SD card
- Operating System: Microsoft Windows Mobile 6.1
- Communication: USB, Bluetooth and RS232

Digital Camera

- Model - Maximum Resolution
- ike100 - 3.2 Mega Pixels (2048 x 1536)
- ike300 - 5 Mega Pixels (2560 x 1920)
- ike1000 - 5 Mega Pixels (2560 x 1920)
- Zoom: Digital, 10x
- Output Image Format: JPEG or Bitmap. 24 bit color

Software***

- ikeCapture: 1-step capture of remote image and geospatial data. Data stored in image EXIF 2.2 header and CSV database
- ArcPad Extension: Seamless remote data capture within ArcPad
- SDK: ikeCapture development kit for embedded applications. Suitable for Windows mobile with C#, Windows .NET, Visual Basic, etc. (Contact Surveylab for more information)
- On board GIS:
- ESRI® ArcPad
- ESRI® ArcGIS Mobile

Digital Compass

- Accuracy (Tilt up to ±90°): 2.0° RMS
- Resolution: 0.1°
- Magnetic Declination: Automatic Real-time Compensation

*Depending on method of operation Model - Maximum Range

**Sub-meter accuracy specification requires data to be collected with a minimum of five satellites, a maximum Position Dilution of Precision (PDOP) of four, minimum satellite Signal to Noise Ratio (SNR) of 30dB, minimum satellite elevation of fifteen degrees and reasonable multipath conditions. Ionospheric conditions, multipath signals or obstructions of the sky by buildings or dense trees may degrade precision by interfering with signal reception. Wide Area Augmentation System (WAAS) is only available in North America, European Geostationary Navigation Overlay Service (EGNOS) is only available in Europe.

***Other third party applications are available for ikeGPS

****Laser distance meter range and accuracy may vary depending on target and atmospheric conditions (fog, rain etc.) Please note that due to constant improvement of our products, Surveylab Ltd reserves the right to update specifications without notice.

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