

- FASTER, EASIER GIS DATA CAPTURE.
- SAFELY CAPTURE UNSAFE LOCATIONS. +
- MANY LOCATIONS: SINGLE POINT. +
- GET VERIFIABLE GEOTAGGED PHOTOS.

# ikeGPS Specifications

#### **PHYSICAL**

Size: 11.8" x 4.3" x 3.1" (300mm x 110mm x 80mm)

Weight: 2.6lbs (1200g)

Tripod Mount: Standard Camera 1/4" Main Connector: Power/USB/RS232/RTCM

Touch Screen: Over LCD display Buttons: 4 user programmable Casing: Plastic (ABS + polycarbonate)

**Protection: IP645** 

Battery: Internal rechargeable Li-Polymer

Operation Time: 6 to 8 hours\* DC Input: 11 to 17 Vdc @ 1.5A max Charging Time: 3 - 4 hours

#### **DISPLAY**

Screen Size: 3.5" diagonal

Screen Resolution: 64k color Transflective Viewable Image: 320 x 240 pixels

# LASER DISTANCE METER

Laser Range:\*\*\*\*

Model	Maximum Range
ike105	100m
ike205	300m
ike305	1000m

Laser Accuracy: ±0.5m + 0.5% of range Wavelength: 905nm (invisible infrared)

Safety: Class 3R Safe to naked eye over all distances.

### **COMPUTER**

Processor: 624MHz Intel® PXA 270 processor

Non-volatile System Memory: 128MB Flash ROM Non-volatile Storage Memory: Removable SD card 1GB Operating System: Microsoft Windows Mobile 5 Communication: USB 1.1, Bluetooth, Wi-Fi and RS232

Channels: 12 channel parallel "all in view" tracking Frequency: L1 C/A code and carrier phase

Update Rate: 1Hz

Autonomous Position Accuracy: < 5m (SEP) Antenna: Built in patch antenna, or optional external

antenna via TNC connector

DGPS Position Accuracy: < 1m (SEP) \*\*

**Typical Times:** 

• First Fix (Cold Start ): 2.5 min • First Fix (Warm Start): 45 s

• First Fix (Hot Start): 22 s Multipath Mitigation: Yes

DGPS Real Time: RTCM-SC104 Messages

Datum: User Selectable

**DGPS Post Processing: Optional.** SBAS (WAAS, EGNOS): Supported.

### **DIGITAL CAMERA**

Model	Max. Resolution
ike105	1.3 Mega Pixels (1280 x 1024)
ike205	3.2 Mega Pixels (2048 x 1536)
ike305	3.2 Mega Pixels (2048 x 1536)

Output Image Format: JPEG or Bitmap

**Data Capture Applications:** 

- CSV file format
- ArcPad™ shapefile format Desktop synchronization: ikeSync

#### **OPTIONAL SOFTWARE\*\*\***

**DGPS Post Processing:** 

- ikeSync including DGPS Post-Processing powered by Waypoint® GrafNav Lite™
- ESRI® ArcPad Application Builder
- ike Software Development Kit

On board GIS:

ESRI® ArcPad

# **DIGITAL COMPASS**

Accuracy (Tilt 0° to 30°): 3.0° RMS Accuracy (Tilt 30° to 60°): 4.0° RMS

## **INCLINOMETER**

Roll and Pitch Range: ± 60° Accuracy (0° to 30°): 0.4º Accuracy (30° to 60°): 1.0°

- of four, minimum satellite Signal to Noise Ratio (SNR) of 30dB, minimum satellite elevation of fifteen degrees and reasonable multipath conditions, lonospheric 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.