

## Spike Smart Laser Measurement Solution for use with ESRI Mobile Apps: [ArcGIS Survey123](#) and [ArcGIS Field Maps](#)



### **Boost field productivity and data capture with Spike and Esri's mobile apps: ArcGIS Survey123® and ArcGIS Field Maps**

Spike is a smart laser measurement solution for all types of geospatial applications that seamlessly integrates with Esri's Survey123 and Esri's Field Maps. Survey123 is a simple and intuitive form-centric data gathering app for creating, sharing, and analyzing surveys. Integrating Spike with Survey123 allows you to quickly and easily measure distance to objects, areas, heights, widths, and the offset location of the objects you need to document, simply by taking a photo with your smartphone or tablet, all within the Survey123 app.

- Spike provides a photo verifiable record of the feature being measured, delivering increased confidence in field surveys and measurements.
- Spike allows you to measure distant objects that are either difficult or not possible to reach.
- Typical ROI on Spike is 3-5 uses in the field.

Integrating Spike with Field Maps allows you to quickly and easily measure distance to objects and offset location of the objects you need to document, simply by taking a photo with your smartphone or tablet, all within the Field Maps app. Full Spike functionality, including photo measurement and point-to-point measurement will be added in a future release of Esri Field Maps.

## Pricing

Item #	Package	Unit Price
164323	<p><b>Ten (10) Spike Laser Measurement Devices*</b></p> <p>Smartphone and Tablet versions are available. Please specify if all devices are Smartphone or Tablet versions or a combination of the two.</p>	\$4,990
<p><b>Add-on Package</b> (not sold separately)</p>		
164324	<p><b>Nite Ize Carry Case</b></p> <p>Fits All Holsters <b>for Smartphone version only</b>. This item can only be ordered at the same time as Spike Laser Measurement Devices being ordered.</p> <p><i>Protect and easily carry your Spike with the Nite Ize Fits All Vertical XL Holster. This Holster fits the Spike for Smartphones when the Spike device is not mounted to a smartphone or tablet.</i></p>	\$14

**\*Esri cannot sell in quantities less than ten. If more than ten (10) unit are desired, please contact [EsriHWRequest@esri.com](mailto:EsriHWRequest@esri.com) for a quote. If purchases under ten (10) units are desired, please contact [james.pardue@ikegps.com](mailto:james.pardue@ikegps.com).**

## What is Spike?

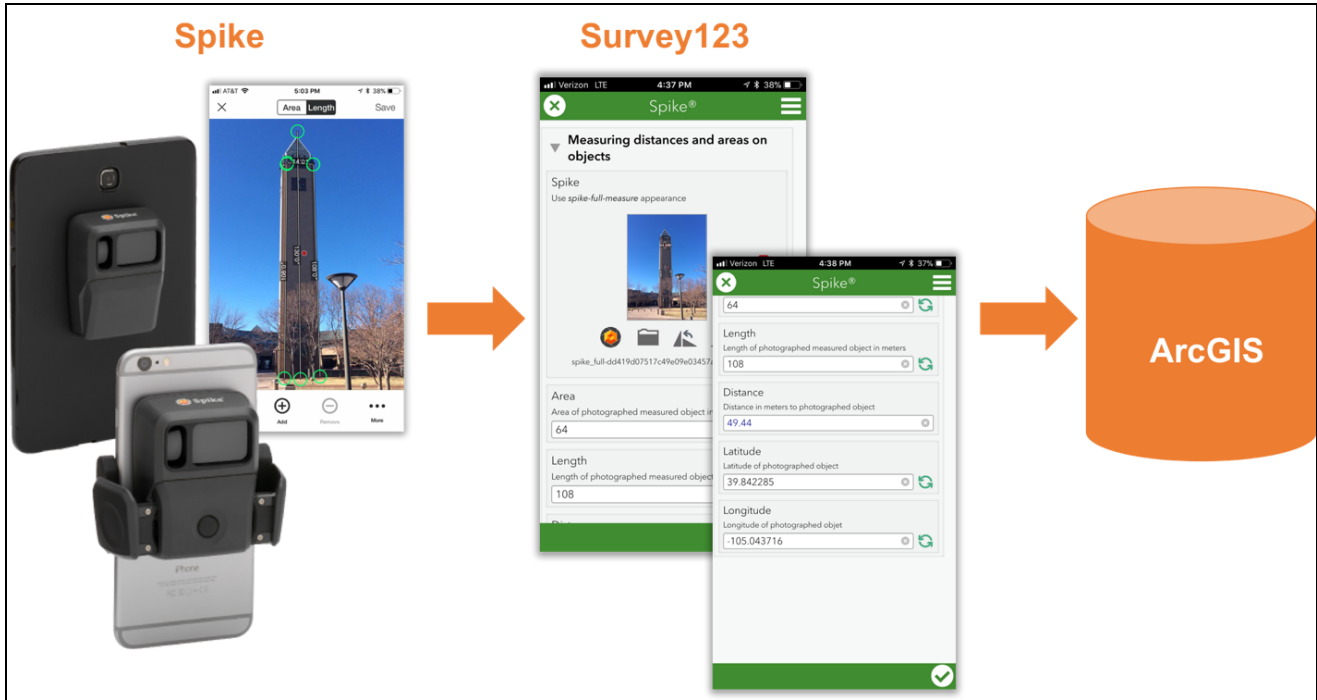
Spike is a smart laser measurement solution for all types of industries and professional use. Spike brings new functionality to your smartphone or tablet by turning it into a powerful multi-tool measurement solution. Spike enables you to measure and GPS locate an object from a distance simply by taking a photo with your smartphone or tablet. From that photo, you can capture real-time measurements including:

- Area measurement of a feature;
- Linear measurement of a feature;
- Distance to target or feature;
- Elevations;
- Distances between two points; and
- GPS location of a feature with a distance offset.

The Spike laser device works with both Apple iOS and Google Android smartphones and tablets.

## How does Spike work with ArcGIS Survey123?

Survey123 and Spike work seamlessly together. The Spike device is first attached to a smartphone or tablet. Using Bluetooth, the Spike device connects to the Spike mobile app. A Survey123 survey configured with a Spike question type will open the Spike app so measurements can be taken on top of photographed objects. Measurements from the Spike app are then sent into the Survey123 app and stored within the survey so they can be uploaded into ArcGIS. This greatly accelerates field data collection for a new level of organizational efficiency. See the graphic below:



## Specifications

### Device and OS

Spike works with commercial Google Android and Apple iOS Smartphones and Tablets. To view a list of recommended devices that have gone through camera calibration procedure and provide the highest level of accuracy, visit the [Spike Support Center](#).

### Connectivity

The Spike device connects with your Smartphone or Tablet via Bluetooth. Your device must support BLUETOOTH 4.0 low energy technology.

### Battery

The Spike device has an Internal Li-ion battery that is charged via a micro USB charging port (a USB cable is included in the box with Spike). Battery life is 4 hours of continuous use.

### Laser

Spike's eye safe laser rangefinder supports ranges between 6-650 feet (2-200 meters). The accuracy of Spike's laser rangefinder is  $\pm 5\text{cm}$  (2 in).

### Output Formats

Measurements are stored with the photo and can be shared as a PDF, JPG, Spike File (XML), or KMZ. For Android devices only, additional output includes HMTL. The Spike File is a compressed .ZIP file, which contains the Spike photos and XML file with measurement and location data.

### Accuracy

The accuracy of Spike's laser rangefinder is  $\pm 5\text{cm}$  (2in); the accuracy of Photo Measurements is  $\pm 1\%$ ; and the accuracy of Point-to-Point Measurements is  $\pm 3\%$ . For additional information on optimal distances and positions, visit the [Spike Support Center](#).

## Units

Spike supports measurements in feet + inches, inches, meters, or centimeters. Unit settings may be changed at any time via the Spike app settings or Cloud settings.

## Warranty and Support

### Spike Warranty

Spike comes with a 2-year warranty for defects or workmanship issues.

[Spike Warranty/Terms of Sale](#)

### Spike Technical Support

[Spike Customer Support Contact Page](#)

Spike Technical Support Hours are 6:00 am to 6:00 pm (MST) Monday through Friday. Closed on major US holidays. To contact Spike Technical Support:

Submit a support request

Telephone Support: +1 720 381 1634

Toll free: +1 844 445 3477 ext. 3

Email: [support@ikegps.com](mailto:support@ikegps.com)

## Documentation and Resources

[Spike for Survey123 Brochure](#)

[Spike User Manual](#)

### Videos

[Click Here](#) Introduction to Spike

### Tutorial

[Click Here](#) Using Spike with Survey 123

## Frequently Asked Questions (FAQ)

### What devices are compatible with Spike?

The following smartphones and tablets have gone through camera calibration procedure and provide the highest level of accuracy for capturing measurements from a photo:

<https://spike.ikegps.com/wp-content/uploads/2021/08/Spike-Supported-Device-List-Sheet1-2.pdf>

### How accurate are measurements made with Spike?

The accuracy of Spike's laser rangefinder is  $\pm 5\text{cm}$  (2 in). The accuracy of a Photo Measurements is  $\pm 1\%$ .

### What is the operational range of the Spike laser?

6-ft to 650 ft or 2-200 meters.

**Is Point-to-Point measurement supported in the Survey123 Integration?**

Not currently. If there is a demand point to point measurement may be added in the future.

**Will you support the Microsoft Windows OS in the future?**

The Windows operating system is not currently in Spike's future app development schedule.

**Need a quote or more information?**

Please email [ResaleProducts@esri.com](mailto:ResaleProducts@esri.com) if you would like to receive a quote for any of the products in this document or if you have any follow up questions regarding these offers.

Click [here](#) to explore additional hardware offers.