ike GPS

IKE 4
Fieldcraft Guide

ABOUT

Getting the best results from your IKE. Tips and tricks to improve performance, accuracy, and productivity

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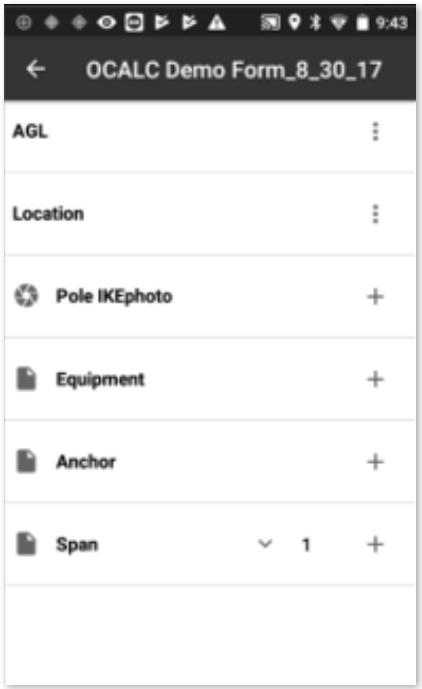
IKE Photo

An IKE Photo is a calibrated image allowing for multiple measurements with a single photo. It is recommended you take a minimum of two photos from different angles.

Taking an IKE Photo

In the IKE Photo Column, select the + icon on the right of the screen



To take an IKE Photo:

- Position yourself at a distance where the entire pole is visible on the screen.
- Center the crosshair on the middle of the pole.
- If the distance displayed doesn't appear to be right, re adjust the crosshair on the pole.
- The crosshair will give a visual indication it is ready to capture by changing from a red circle to green square once you are able to take the IKE Photo.
- Adjust contrast slider located in the bottom left hand corner of the screen to make the pole stand out.
- Tap the orange Capture Icon button in the bottom right of the screen.

IKE Photo

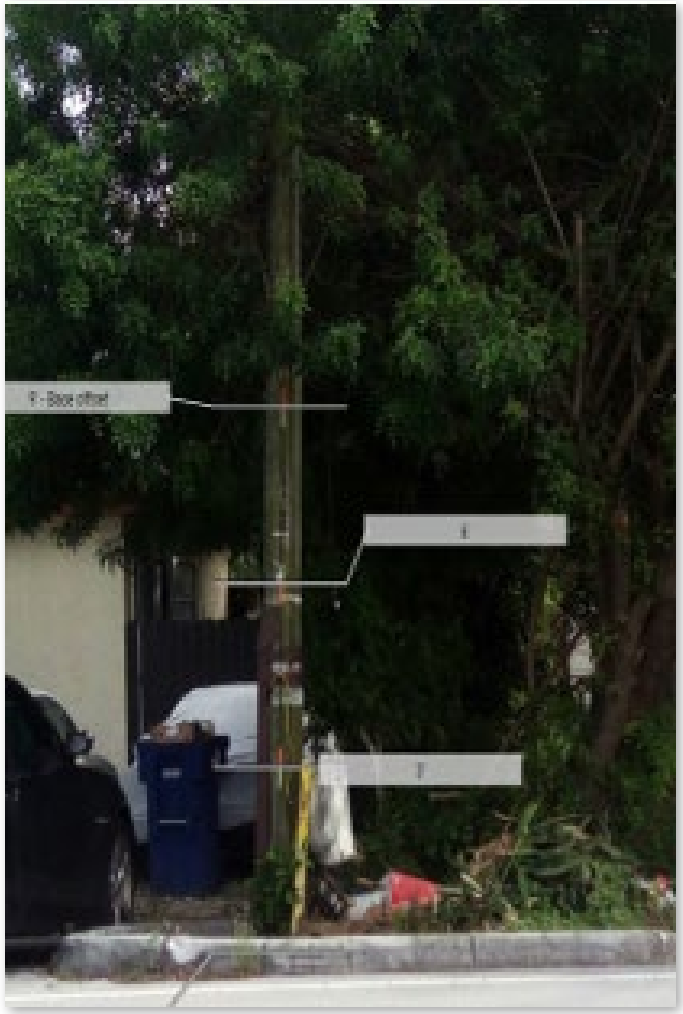
Best Practices for Taking IKE Photos:

- Take at least two IKE Photos from different angles.
- Target the crosshair on the wood of the pole
- Line up the crosshair vertically with the tip and base of the pole.
- Make sure you can see the attachment points on the "Face of the Pole" for the most accurate annotation in IKE Office.

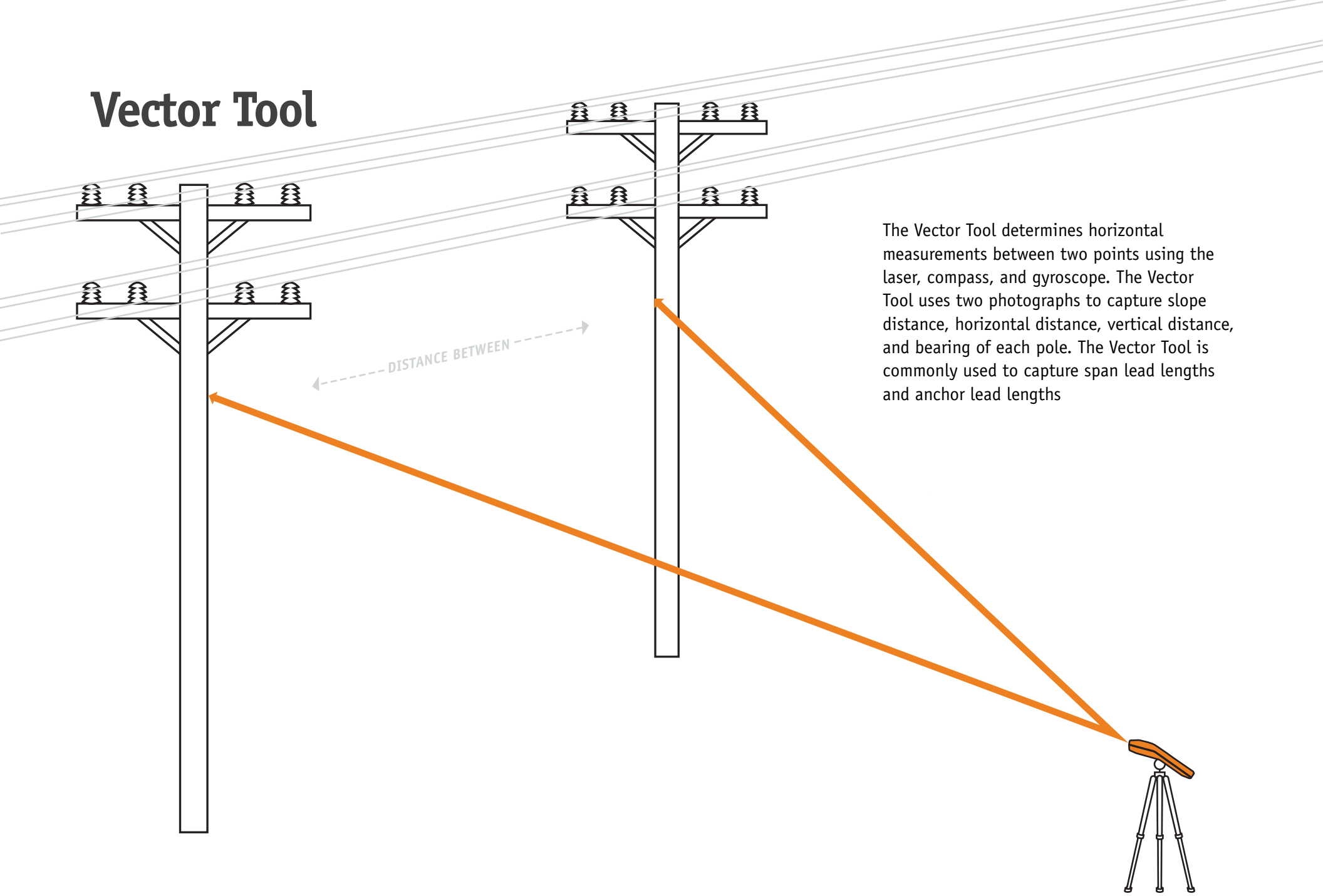
If the base of pole is obscured:

Use a Offset Stick to have a ground reference when dealing with obstructions

- Offset must be a known height. This can be anything with a known the height such as a range rod, height stick, PVC pipe, etc.
- Stand a offset stick at the base of the pole
- Reference is set vertical and flush against the pole.



Vector Tool



The Vector Tool determines horizontal measurements between two points using the laser, compass, and gyroscope. The Vector Tool uses two photographs to capture slope distance, horizontal distance, vertical distance, and bearing of each pole. The Vector Tool is commonly used to capture span lead lengths and anchor lead lengths

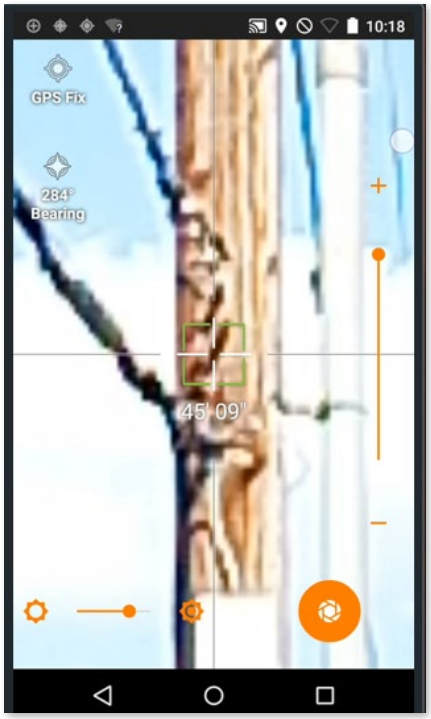
Vector Tool

Taking a Vector Shot

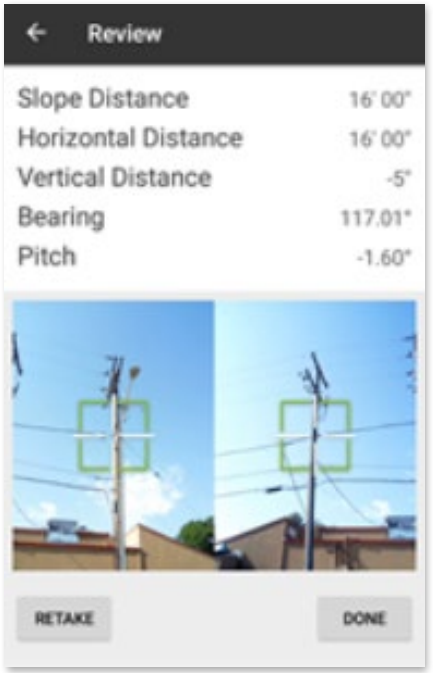
Select the + on the right corner of the screen where a vector is needed. Position your Ike 4 in a location where you have clear line of sight for both points. This may require you to move to get the most ideal shot.

Vector Tool

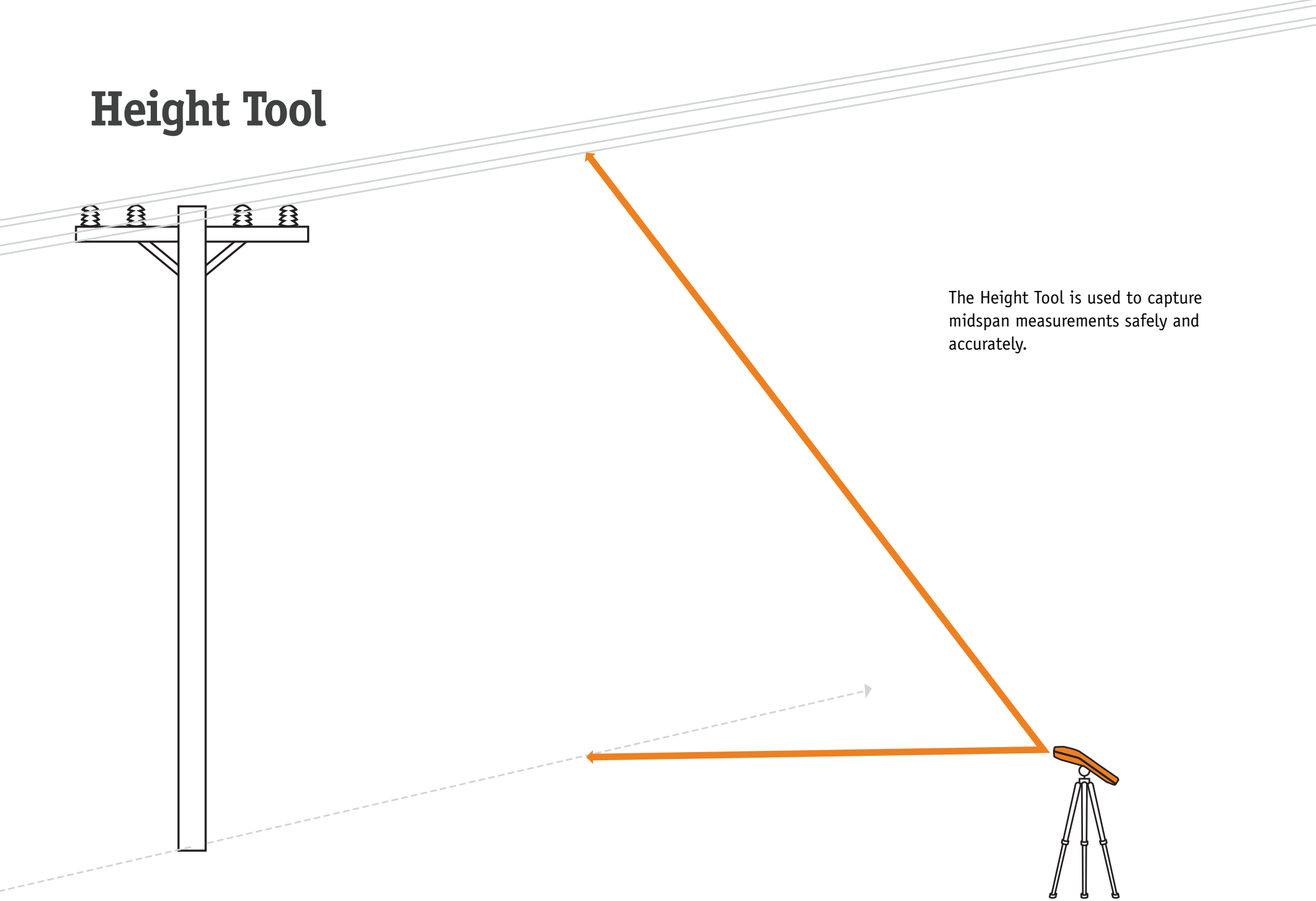
Common attachment points for both poles are an ideal reference to eliminate vertical angle which will give larger measurements. To take the point “A” shot, select an attachment you can also hit on the next point.



After you have taken the Point B picture the review screen will appear. Select Retake if the distances appear to be incorrect. If you are satisfied with the figures, simply tap done.



Height Tool



The Height Tool is used to capture midspan measurements safely and accurately.

Height Tool

How to Take a Height Measurement

Position the IKE 4 perpendicular to the wire or object you are measuring. Tap the three vertical dots next to where a height tool is located within your form. Tap the up and down arrows to start the process to collect a height measurement.

Once the Height Tool is opened the device will prompt “Aim at wire”

- Position the crosshair on the wire or object you would like to measure. The crosshair will turn green once you are getting a return and the device is ready to begin to measure.
- Use the Zoom Tool located on the right-hand corner of the screen as necessary.
- Tap the Capture Icon when you are ready to capture the first point.
- It is easiest to capture wires with an open sky as a backdrop. However, it is possible to capture a measurement if you pay close attention to the distance indicator.

Height Tool

- Orange arrows will help you guide the device (left, right, up, or down) to the location directly under the previous point.
- Follow the arrow directions to come to an estimated reference point directly under the span.
- Select the Capture Icon once the crosshair turns green.
- You will be prompted to select Done or Retake.

Best Practices for Height Tool

- Eliminate any large angles.
- Pay close attention to the Distance Indicator to ensure that you are hitting the wire.
- The first photo will direct you to point at the wire and the second photo will direct you to point at the ground (below the wire).
- The arrows directing you should disappear when you are directly below the wire.

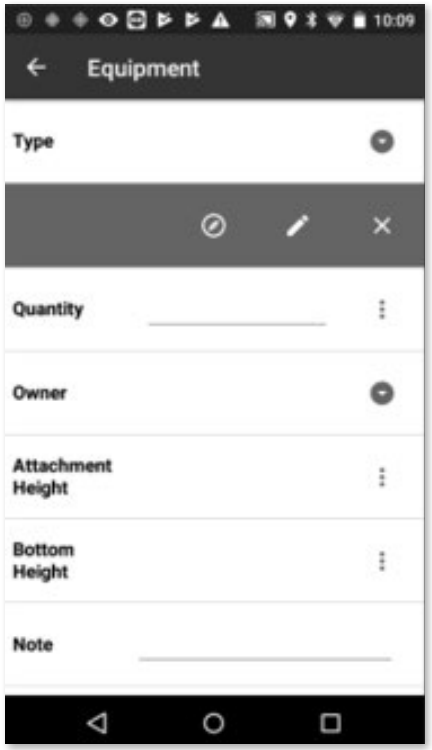
Bearing Tool

The Bearing Tool captures equipment bearing. You use this tool when you want to accurately model equipment such as transformers and the way they are attached to the pole.

How to Capture Bearing

To capture bearing, tap the three dots next to orientation.

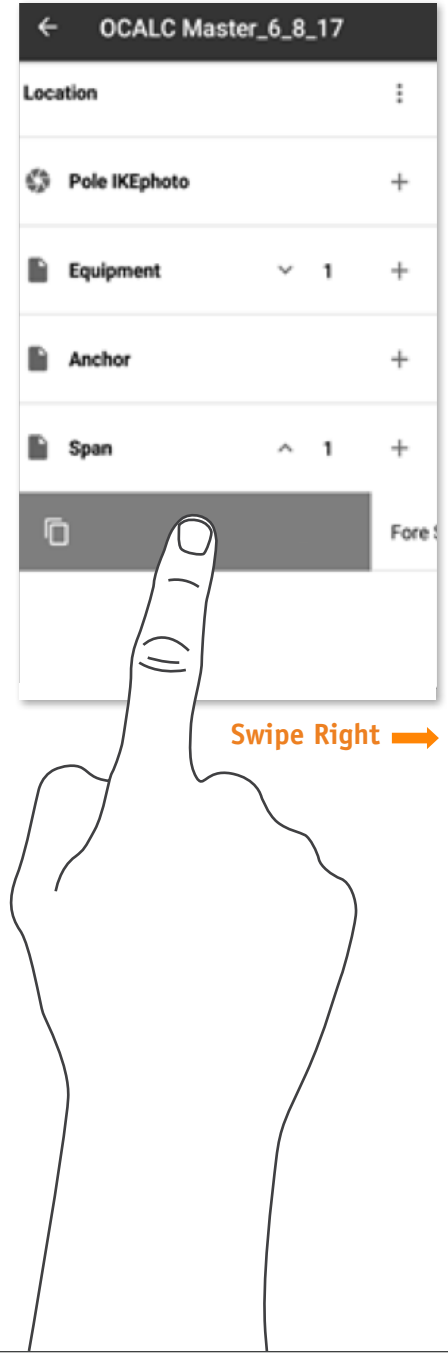
Select the Compass Icon. You will be prompted to aim directly at the equipment. You need to be directly in front of the equipment to get an accurate bearing. The Pencil Icon will allow for you to manually enter the bearing.

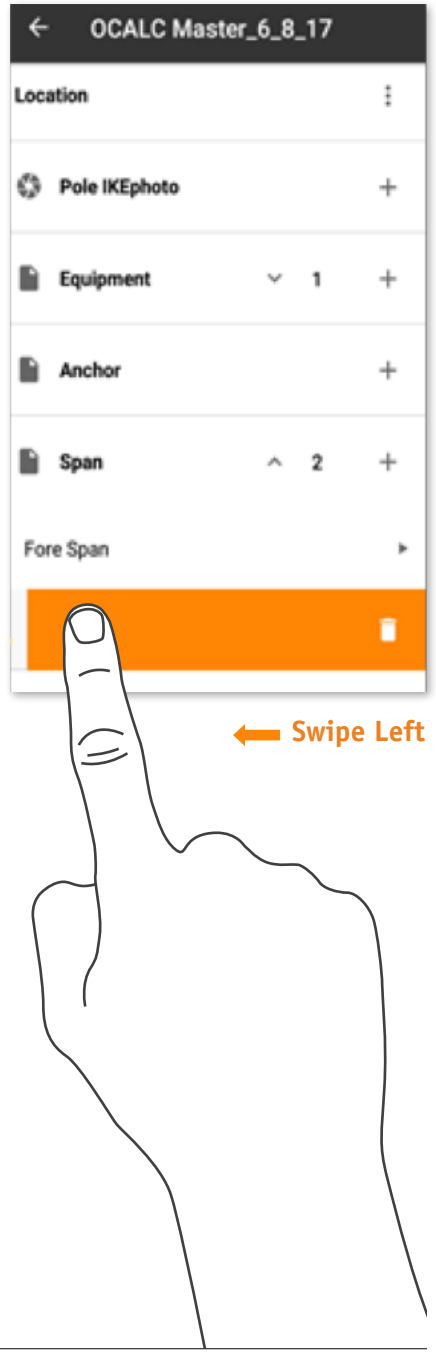


Swiping

Use of Swiping eliminates the need to input like data twice and allows for a very smooth data collection process. Photos are not copied over.

- Need to delete a subform? Swipe Left.
- Need an additional span? Swipe Right.

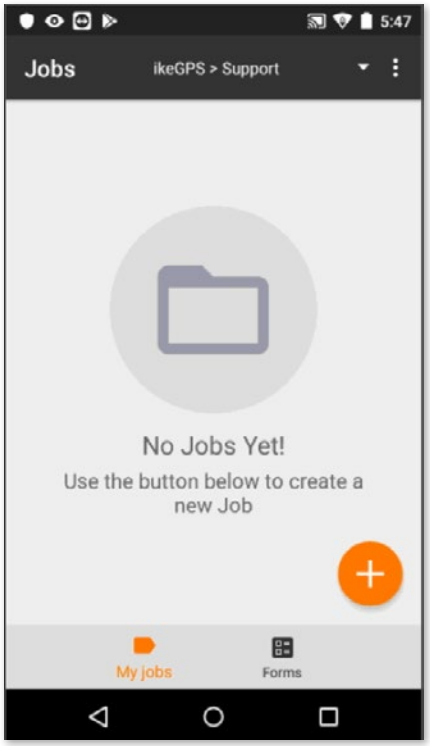




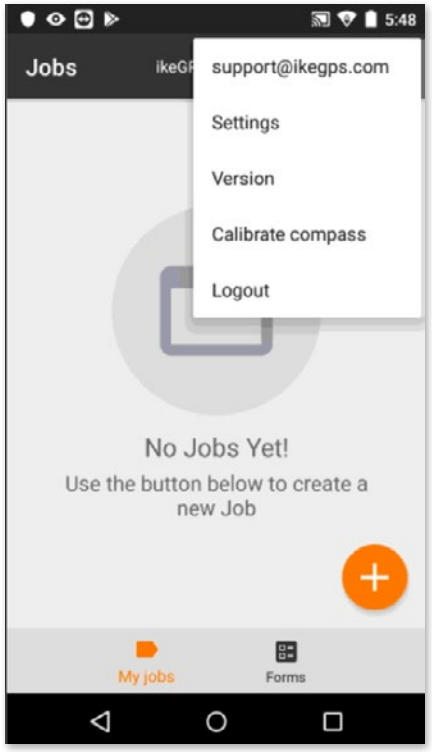
Compass Calibration

The Ike-4 requires a weekly calibration of the compass.

To begin the calibration process, open IKE Field and press the three dot menu.

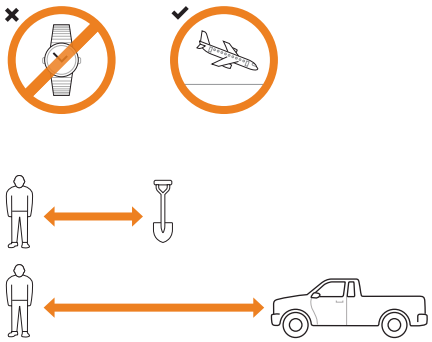


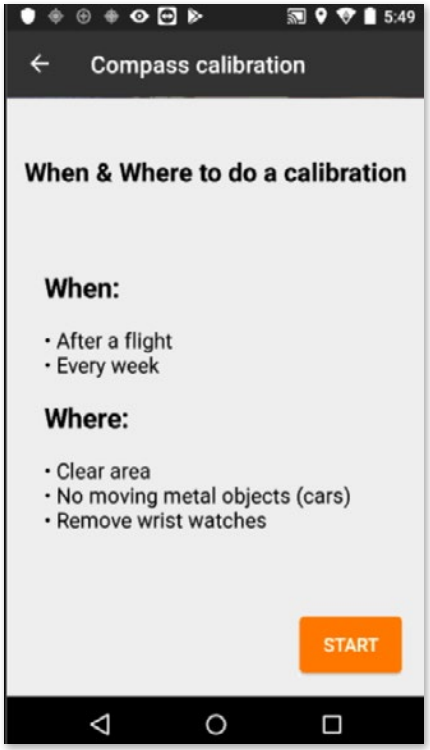
Select calibrate compass from this menu.



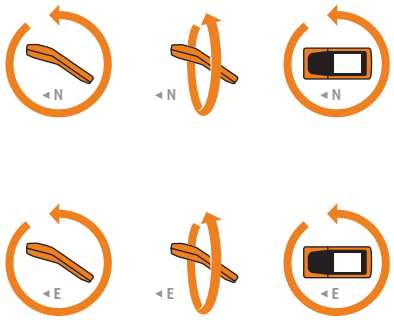
Compass Calibration

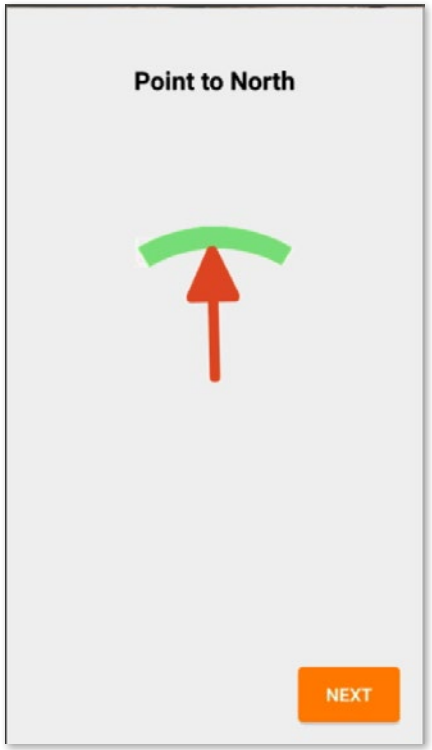
Check your surroundings for any metallic interference and remove any large metallic wristwatches. An ideal place to calibrate your device is an open grassy area. For situations where you are in urban environments, a good rule is to be double the distance away from a metallic object.





You will see a green semi-circle. Align the red arrow in the middle and press next. You will see animations to show you the correct turns to perform. Slow and steady full turns should take approximately 10 seconds to complete. Watch the video for an end to end tutorial.

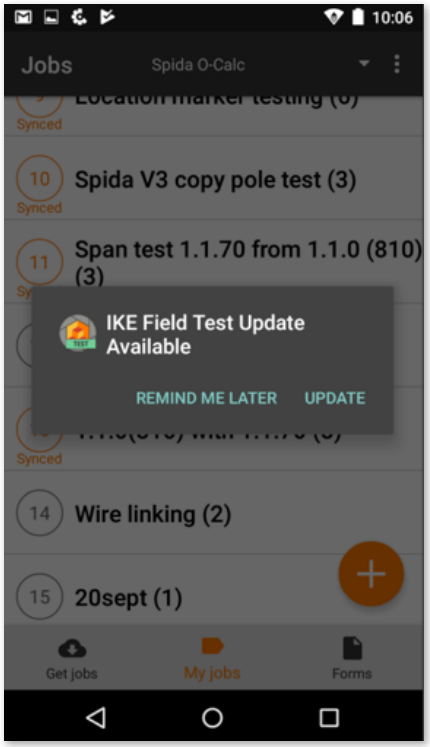




View Calibration Video

Updating IKE Field App

You will be prompted by IKE Field when an update is available when connected to Wi-Fi. Tapping remind me later will push the update back approximately 3 hours. It is recommended you take updates immediately when they are available.



Learn More

If you require further assistance
or more in-depth help regarding
specific work flows, please contact

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