



# IKE 4

## user manual



---

Visit <http://ikegps.com/ike-4/> for  
software updates • manuals • tutorials • videos

---

# contents

- introduction X
- what's in the box X
- IKE 4 system overview X
- system setup X
- IKE 4 tripod X
- IKE Field – how it works
- IKE Office X
- IKE Field X

# Introduction

Thank you for purchasing the IKE 4. Your IKE 4 is a location-based measuring solution that will greatly increase your productivity when undertaking utility asset management surveys and related measurements. The IKE 4 integrates a digital camera, compass, laser range finder, mobile computer, and precision GPS.

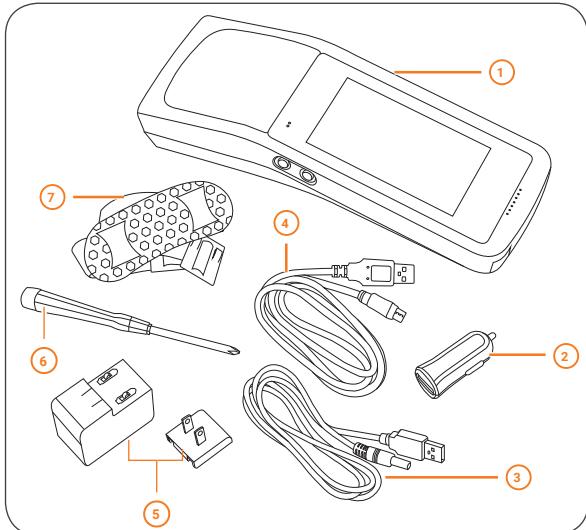
With your IKE solution you can quickly:

- Collect geo-located pole photos
- Measure wire span heights, even across busy roads
- Determine wire clearances from vegetation or buildings
- Make accurate attachment height measurements on captured photos

This document will guide you through:

- Setting up your IKE system
- Making in-field measurement tasks
- Transferring data from the IKE Field to IKE Office
- Measuring attachment heights from a photo
- Outputting data in industry standard file formats

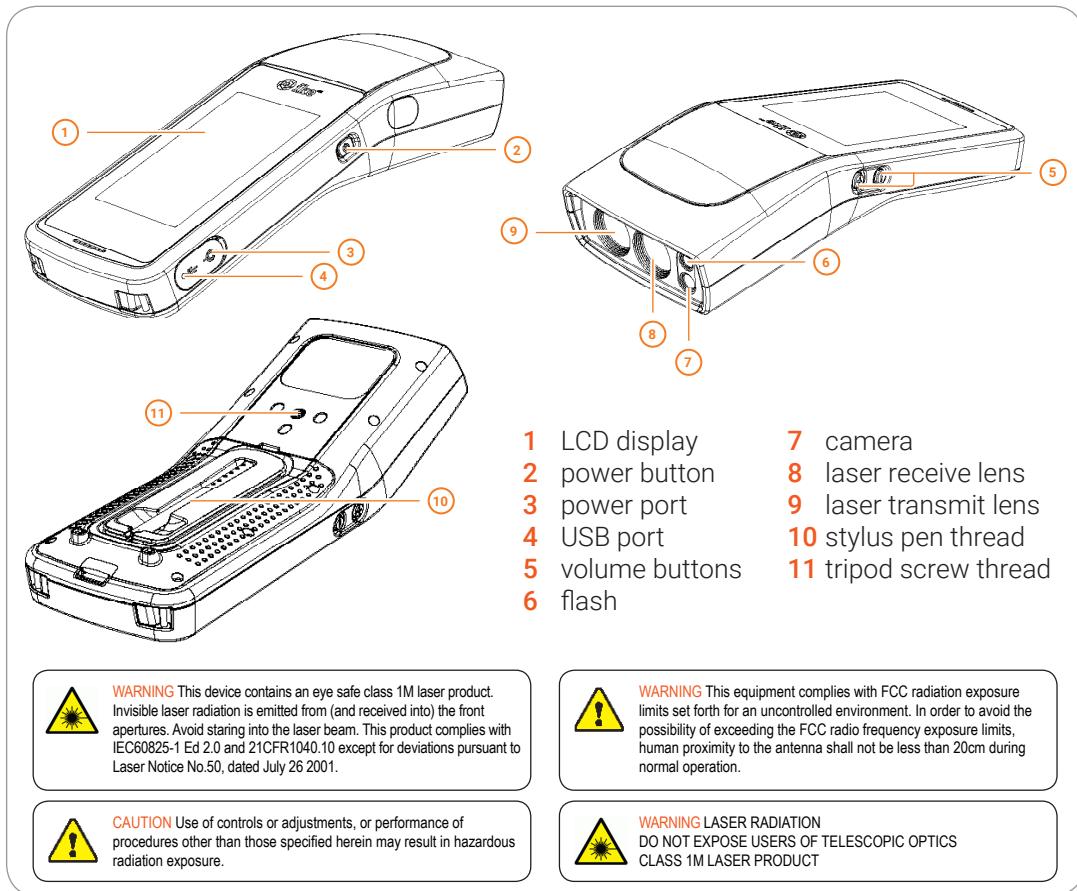
# What's in the box



- 1 IKE device
- 2 USB car charger
- 3 power cable
- 4 micro USB cable
- 5 AC charger with plug adapter
- 6 screwdriver
- 7 shoulder strap for hard case
- 8 hard case (not shown)

A SIM card and SD card are not included.

**IMPORTANT:** The IKE 4 device is designed to be used with the IKE Tripod. It should not be used while being held by hand or placed close to the user's body.



**WARNING** This device contains an eye safe class 1M laser product. Invisible laser radiation is emitted from (and received into) the front apertures. Avoid staring into the laser beam. This product complies with IEC60825-1 Ed 2.0 and 21CFR1040.10 except for deviations pursuant to Laser Notice No.50, dated July 26 2001.



**CAUTION** Use of controls or adjustments, or performance of procedures other than those specified herein may result in hazardous radiation exposure.



**WARNING** This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. In order to avoid the possibility of exceeding the FCC radio frequency exposure limits, human proximity to the antenna shall not be less than 20cm during normal operation.

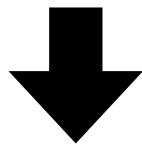


**WARNING LASER RADIATION**  
DO NOT EXPOSE USERS OF TELESCOPIC OPTICS  
CLASS 1M LASER PRODUCT

# IKE 4 system overview

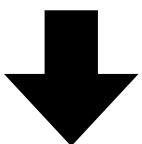
## Plan

Design a form or import a Spida Client file



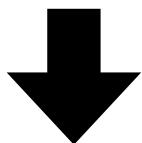
## Capture

Make measurements and capture data in your forms using the IKE Field device



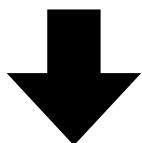
## Upload

Upload data to IKE Office over Wi-Fi



## Measure

Use Photo Measure in IKE Office to measure pole attachment heights



## Export

Export your collections to one of the following formats: KML, JSON, PDF or SPIDA

# system setup

## IKE 4 software

### IKE Office

IKE Office makes data transfer from your IKE Field device simple. Customize and deploy forms directly to your IKE Field device and export various file types from captured data. Make accurate photo measurements and save marked-up photos.

### IKE Field

Your device has been shipped with the latest factory software – your installed version shows on the IKE Field device main screen. However, the team at IKE regularly makes product improvements. Updates will be delivered to your device via the Google Play store. You only need to update the software when prompted, and you will stay up to date.

## IKE 4 documentation

### IKE 4 setup guide

A guide to getting started with your IKE field device

### IKE 4 user manual (this guide)

The most comprehensive A-Z guide to using your IKE device

### IKE 4 fieldcraft guide

How to get the best results from your IKE, tips and tricks to improve performance, accuracy, and productivity

## additional software

- Web Browser – IKE Office supports Internet Explorer 11+, Firefox and Chrome browsers.
- Google Earth™ – View your data and measurements by clicking on their location on aerial photographs.

# IKE 4 tripod

Your device is designed to be used with the IKE 4 tripod, which provides a stable platform to obtain the most accurate results when measuring objects such as target poles and wires. The tripod has a low magnetic signature that will not affect the IKE device's compass, which helps provide accurate measurements.

**Important:** Tripods other than the IKE tripod will likely produce less accurate results than the IKE tripod.



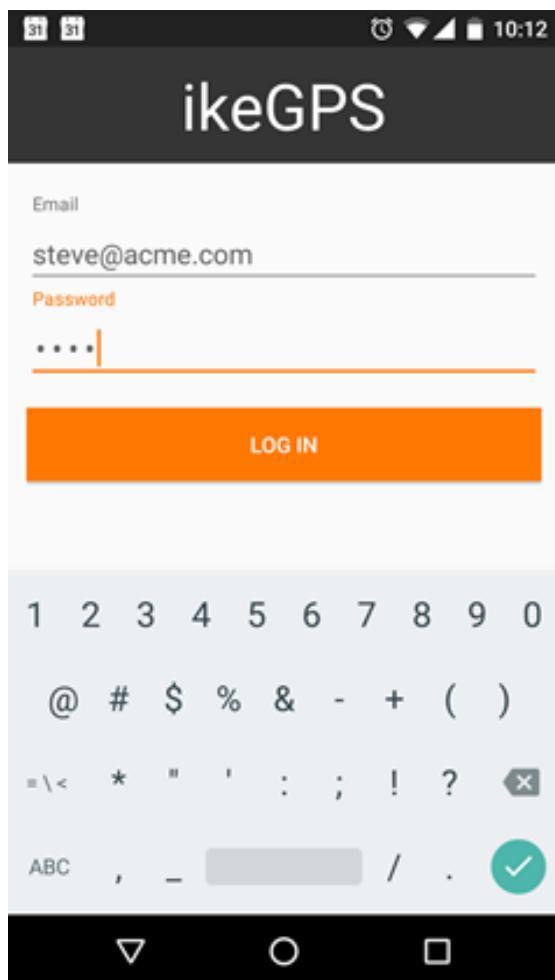
# IKE Field – how it works



# IKE Field

IKE Field  
Signing In  
Settings  
Creating a job  
Downloading forms  
Starting a collection  
Viewing the map  
Uploading data  
Making measurements

## signing In



1. Sign in to the application with the same email and password as you used for IKE Office.

This user information will be saved, so the next time the application is opened it will already be logged in to the most recent account.

# settings

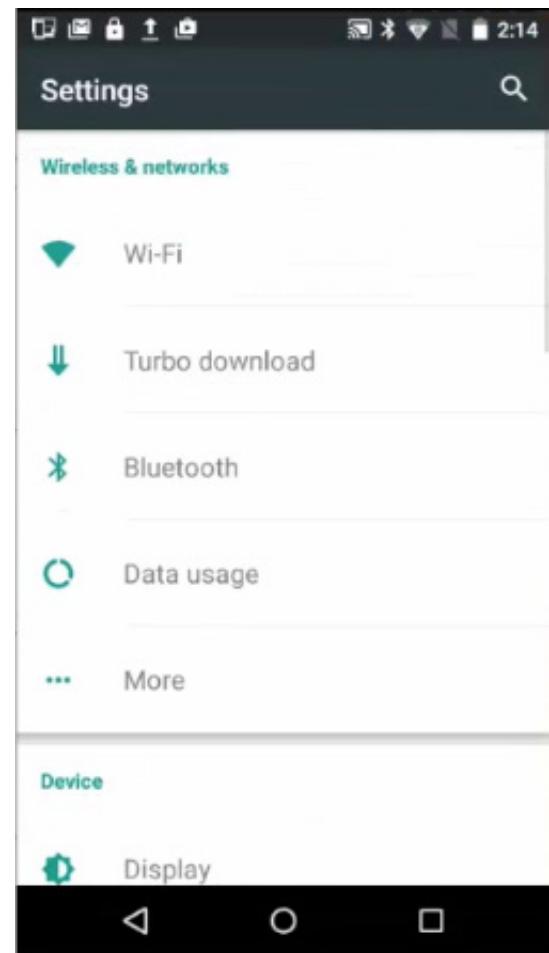


After turning on the IKE, navigate to the device's **Settings**.

There are four (4) separate **Settings** sections:

- Wireless & networks
- Device
- Personal
- System

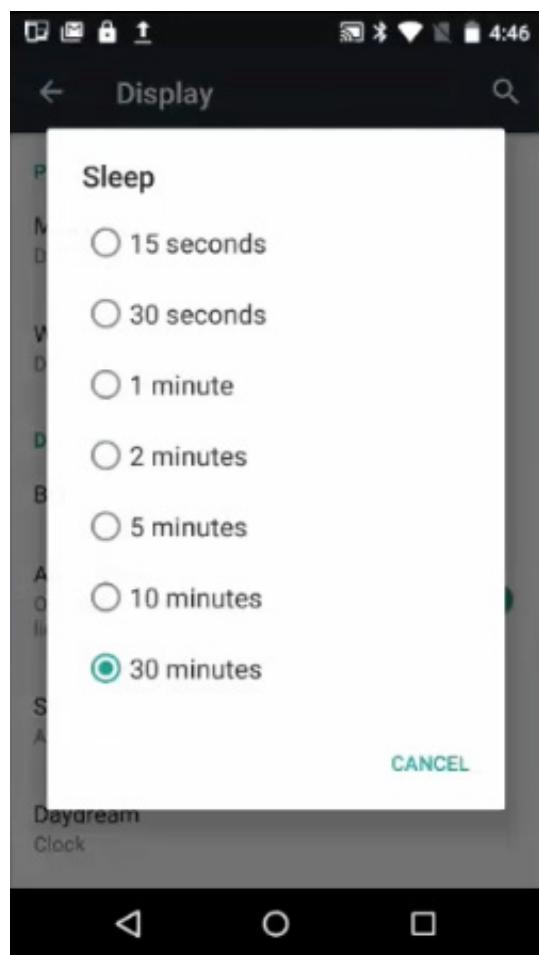
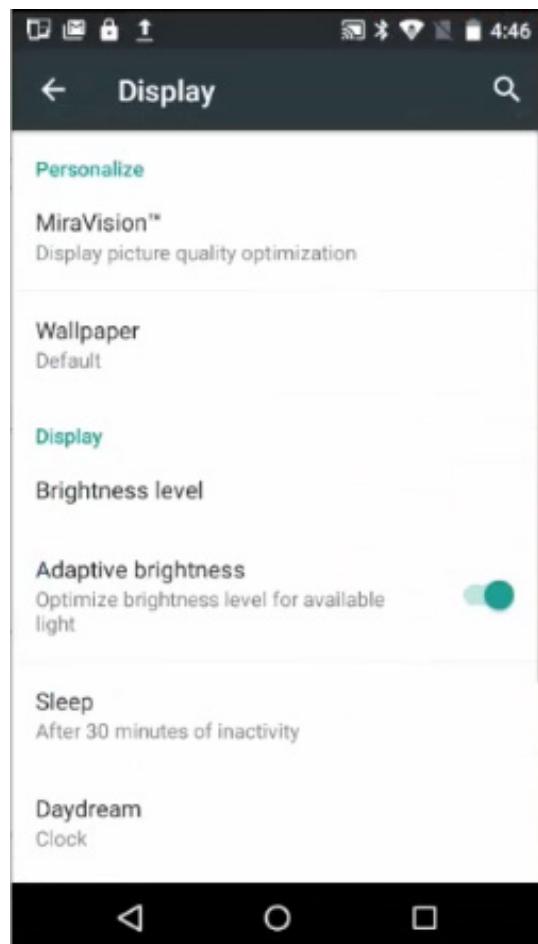
Each will be discussed briefly, in general.



## Wireless & networks

- **Wi-Fi** – touch **Wi-Fi**, and then touch the slider to move it to the **On** position. Choose a wireless connection.
- **Turbo download** – touch **Turbo download** to download large files (>20 MB) faster, using the Wi-Fi and 4G/3G networks simultaneously. Touch the slider to move it to the **On** position.
- **Bluetooth** – touch **Bluetooth**, and then touch the slider to move it to the **On** position. Choose a **Bluetooth** device
- **Data usage** – touch **Data usage** to check daily and total data usage. Default is **OVERVIEW**. Touch **Wi-Fi** to view app usages. Touch available monthly segments to compare across time.

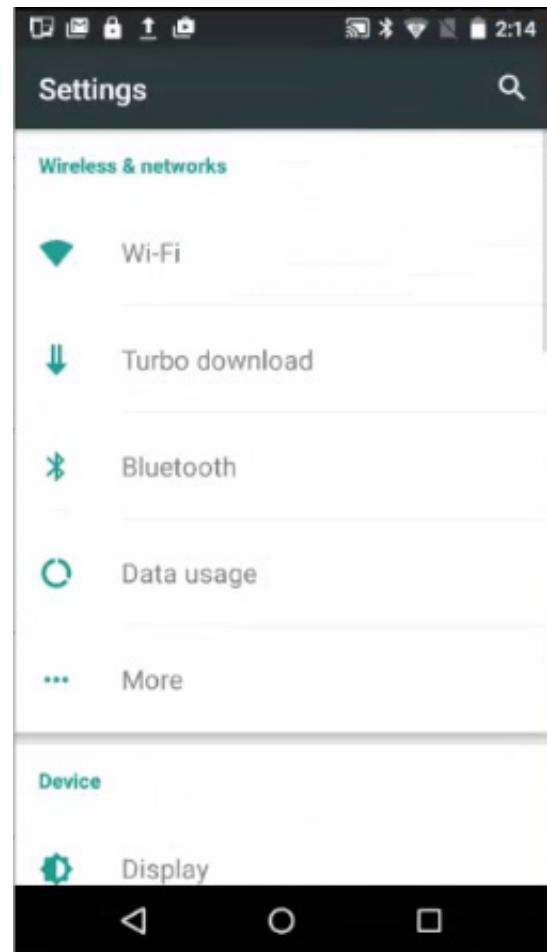
- **More** – Touch **More** to access
  - Airplane mode
  - Tethering & portable hotspot
  - VPN
  - Cellular networks



# settings



1. After turning on the IKE, navigate to the device's **Settings**.



2. Move to the **Wireless & networks** section.
3. Select the router you want.
4. Enter the router's password and select **CONNECT**.

For extended Internet coverage, use a standard AT&T SIM card, or a micro or nano card with an adapter, in the IKE SIM card slot under the battery.

Refer to **IKE 4 Training Module 4** for further details.

## 5. Navigate:

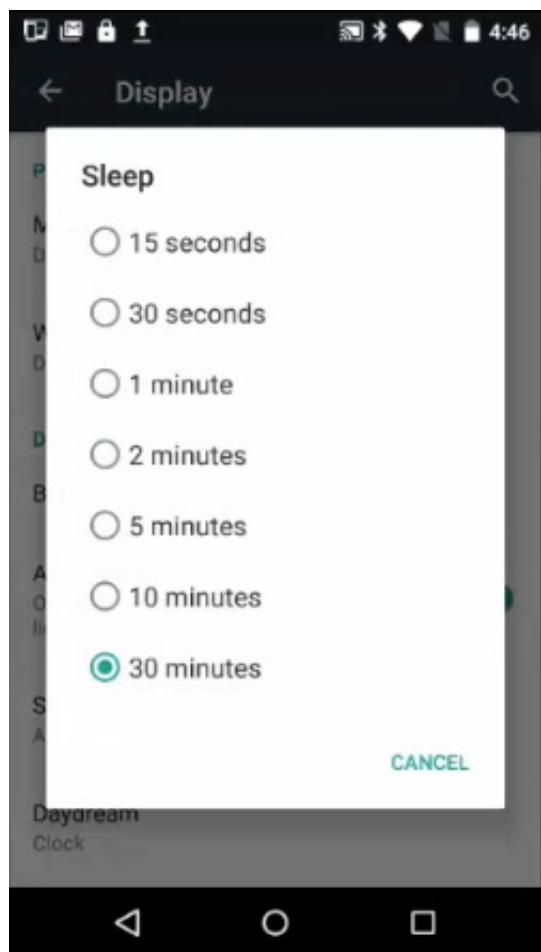
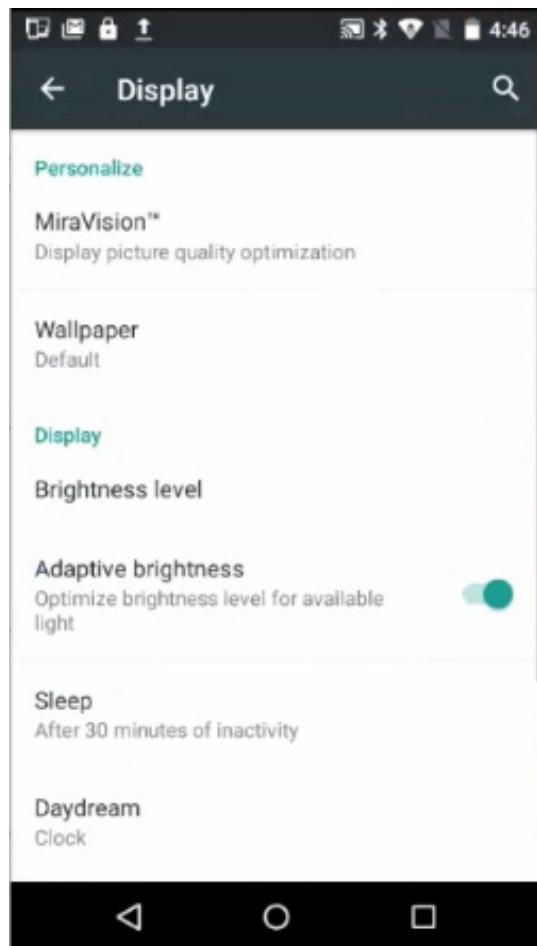
### Settings > Device > Display

There you can change

- Brightness level
- Adaptive brightness
- Sleep

Change the **Brightness** level for easy viewing.

Adjust the **Adaptive brightness**, depending on the light in your environment.



Change the **Sleep** mode setting to save battery life during periods of inactivity.

6. Navigate:

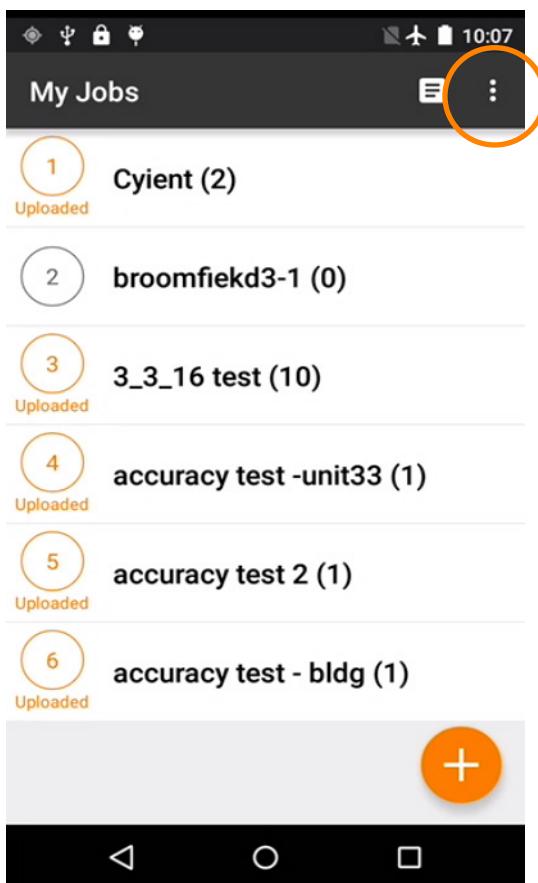
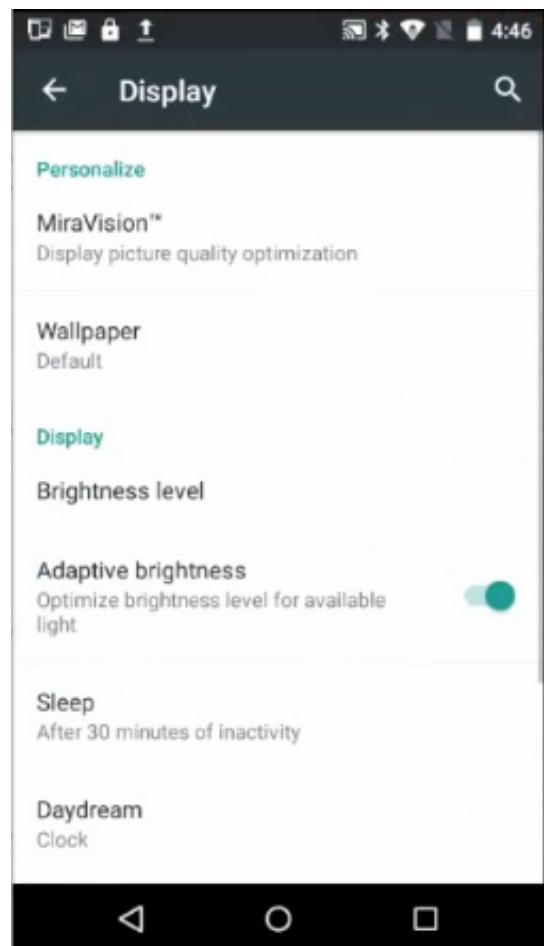
### Settings > Personal > Location

Touch **Location** to manage:

- Location settings
- Satellite-based augmentation systems (SBAS)

For the IKE device's GPS to function correctly, SBAS must be turned on

- **Location** – touch **Location**, and then touch the slider to move it to the **On** position.
- **SBAS** – touch the **SBAS** slider to move it to the **On** position.



### IKE Settings

1. Sign in to the IKE Field app, using the same sign in information as the IKE Office account.

The app opens to the **My Jobs** screen.

2. On the **My Jobs** screen, touch the

More icon (⋮) in the upper-right of the screen.

3. Touch **Settings**.

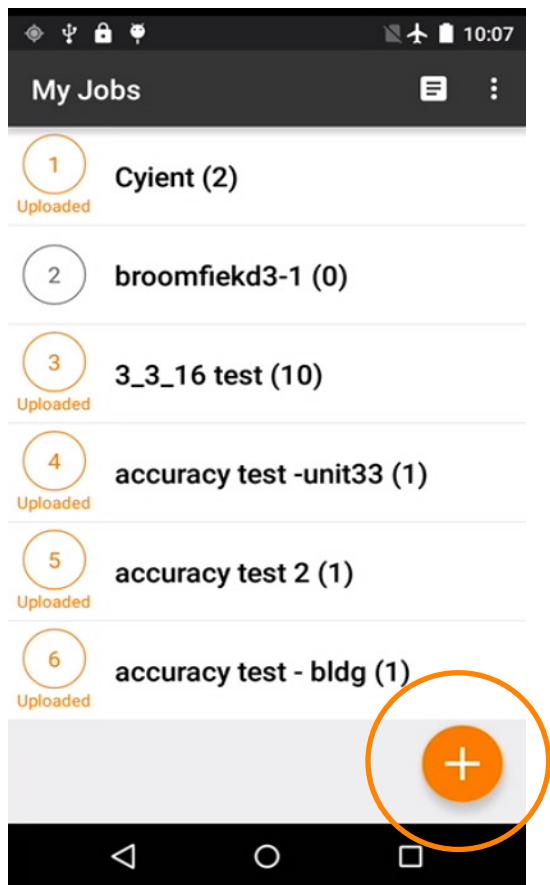
Now you can change

- the **Date Format**
- the **Measurement Unit**.

4. Touch **Date Format** to choose between MM/dd/yyyy and dd/MM/yyyy formats.

5. Touch **Measurement Unit** to choose between feet and meters.

# creating a job

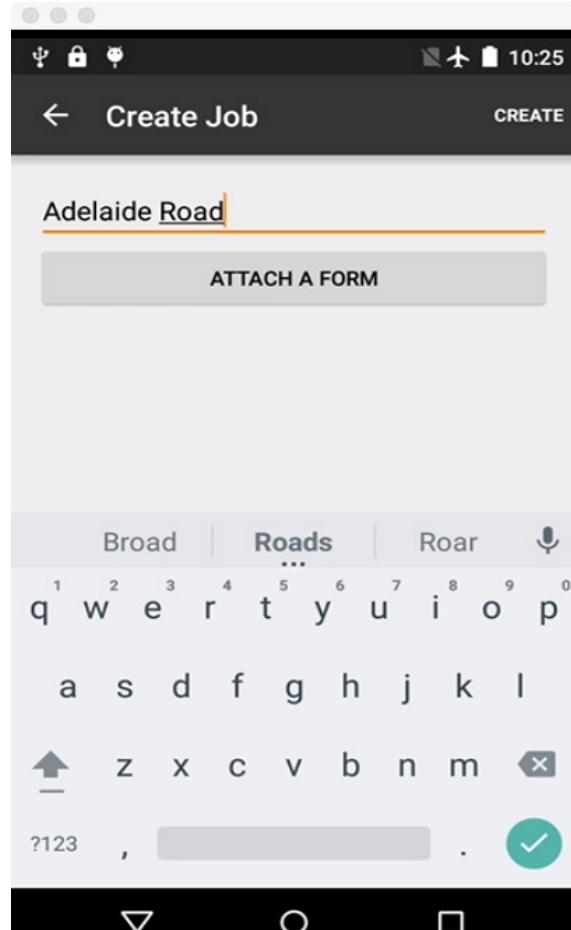


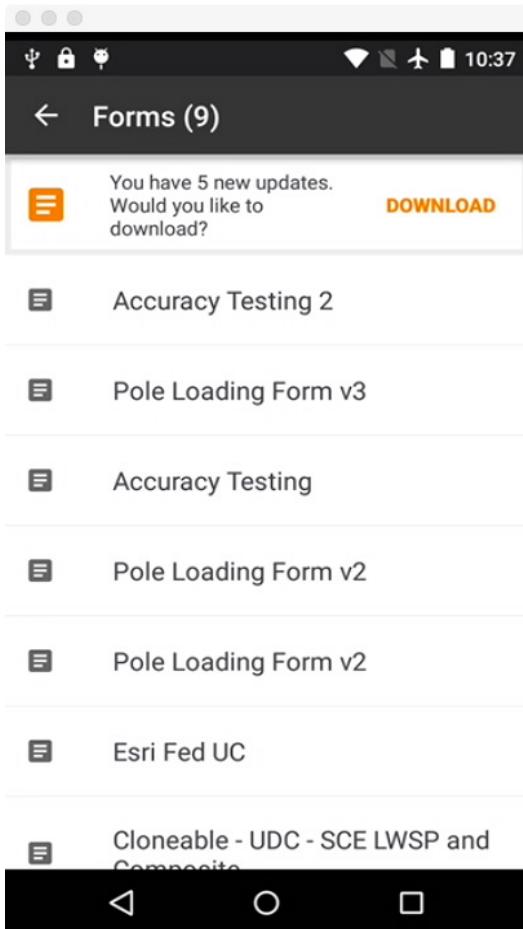
1. To create a job, navigate to the My Jobs screen.
2. Touch the orange plus icon .

3. Enter the name of the Job.

4. Touch **ATTACH FORM**.

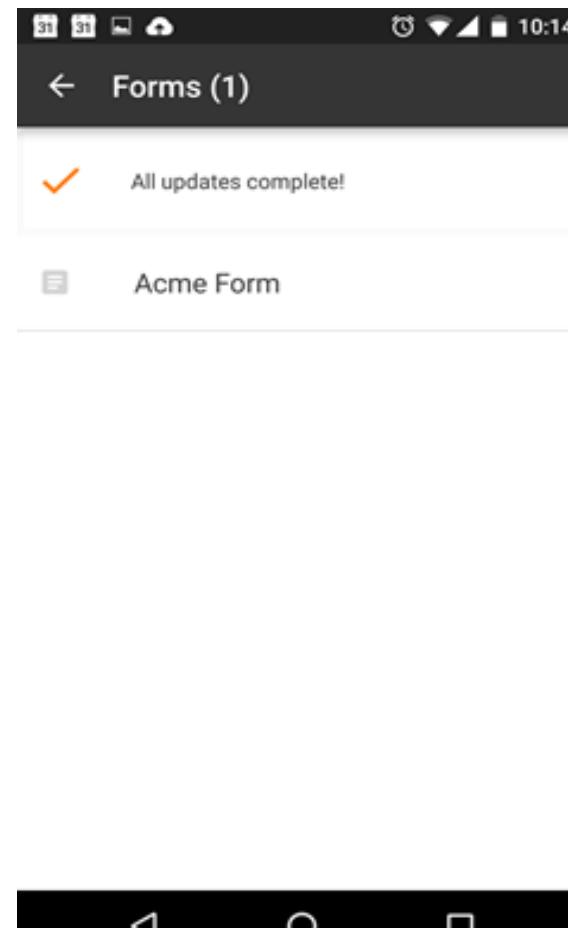
When connected to the Internet, the page will automatically check for available updated and new forms.

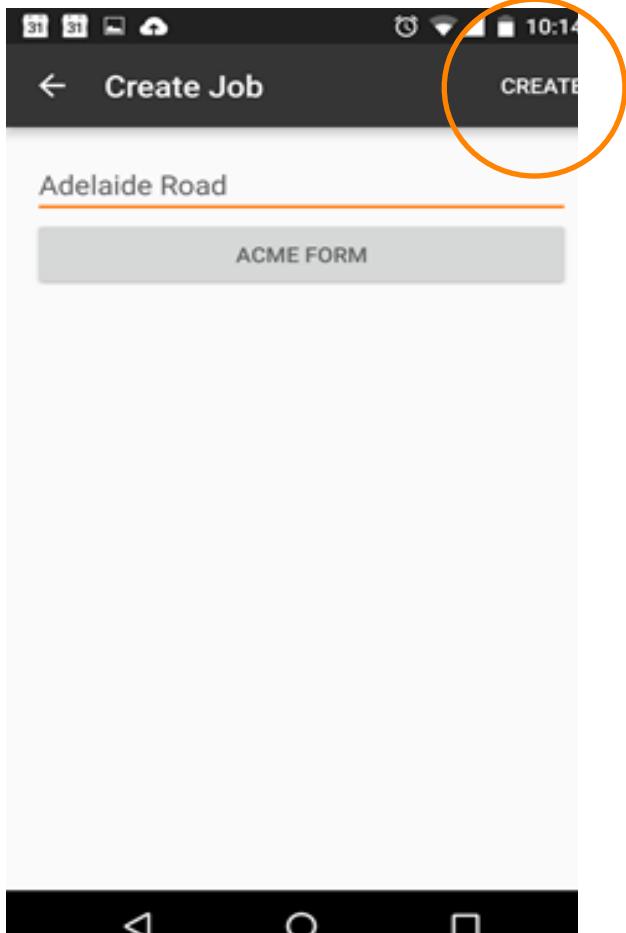




5. Tap **DOWNLOAD** to download the latest forms.

When forms are downloaded, you have access to them, even without Internet connectivity.

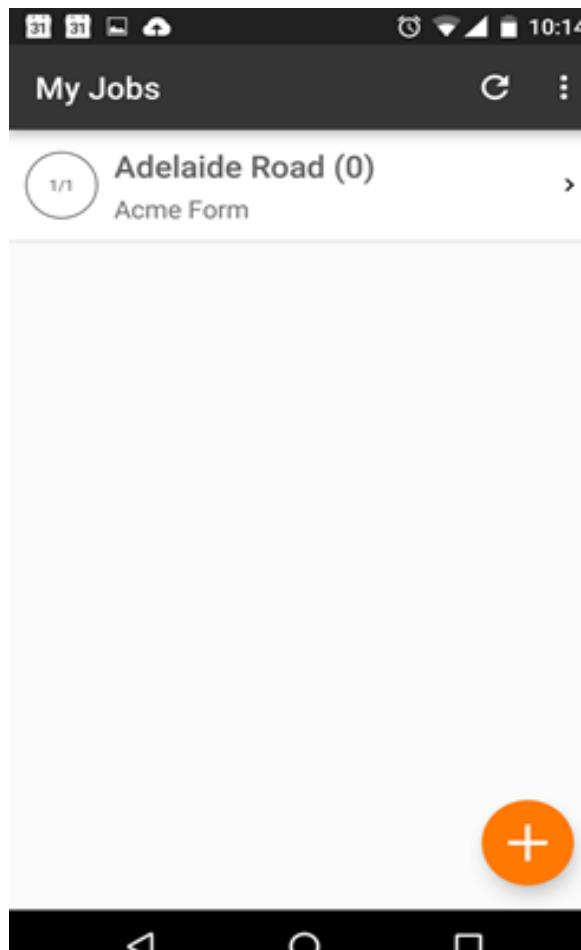


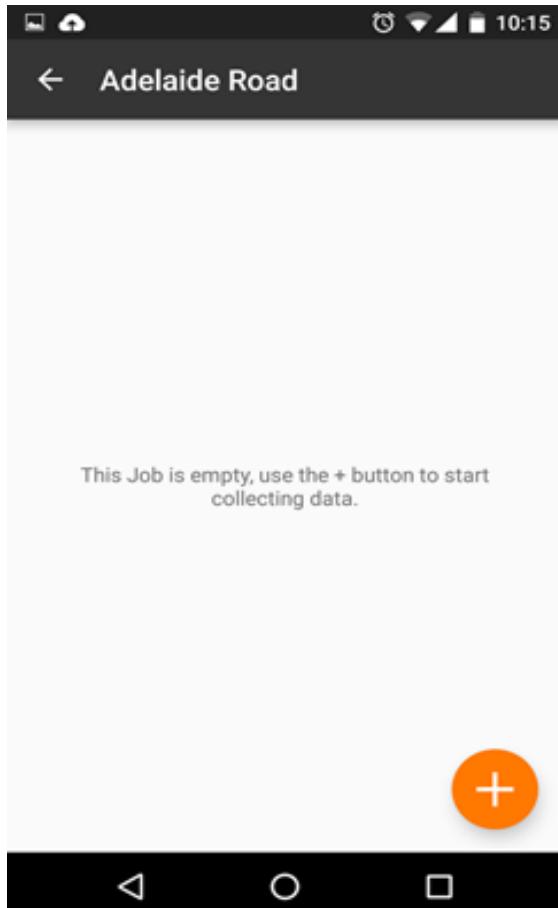


7. When the job has a name and a form attached to it, tap the **CREATE** button in the top right.

To ensure you have the resources for data collection, we recommend creating a job and applying the form before going on site. If your IKE device has a SIM card or Wi-Fi connectivity in the field, you will be able to receive form updates.

8. The **My Jobs** screen shows all of the jobs on the device. Select the Job you wish to work on to proceed.

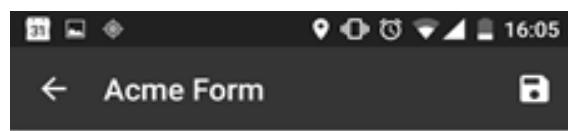




9. Now you are ready to start collecting form data.  
Tap the + button to create your first collection.

10. You can enter data directly into the on-screen form and use tools to make measurements.

Anything with a plus button can be repeated multiple times.



11. Tap the  next to equipment sub-form to start collecting data about that attachment.

12. When you have collected all of the information about the equipment, click the done button at the top right.

Pole Type Douglas Fir > 5 > 40

Circumference 35

Owner UTILITY > City of Vernon

Equipment 1

Riser

Anchor

13. You can see that one piece of equipment has been captured.

Tap the **Save** icon to keep this information.  
Tap the **Back** icon to go back to the Job screen.

14. The Job screen shows all of the collections you have made for this job in both a list and on a map.

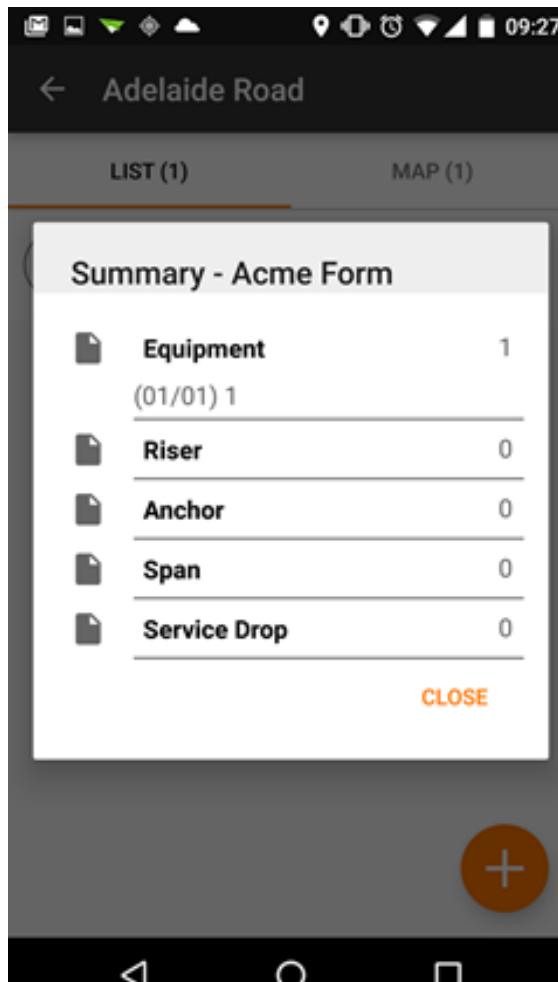
Tapping the down arrow next to a collection shows a summary.

← Adelaide Road

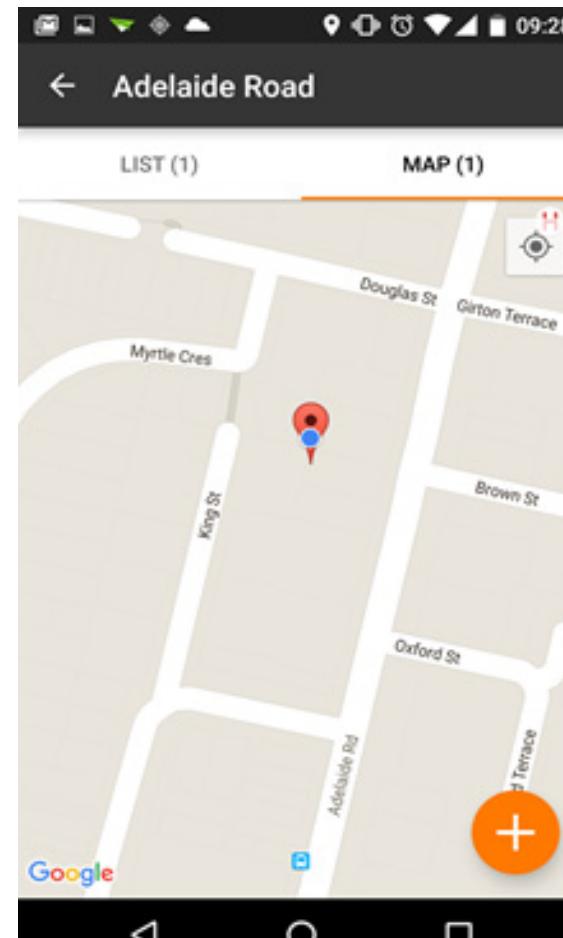
LIST (1) MAP (1)

1 C60

+



15. The summary gives you an overview of a collection by showing which sub-forms have been collected.

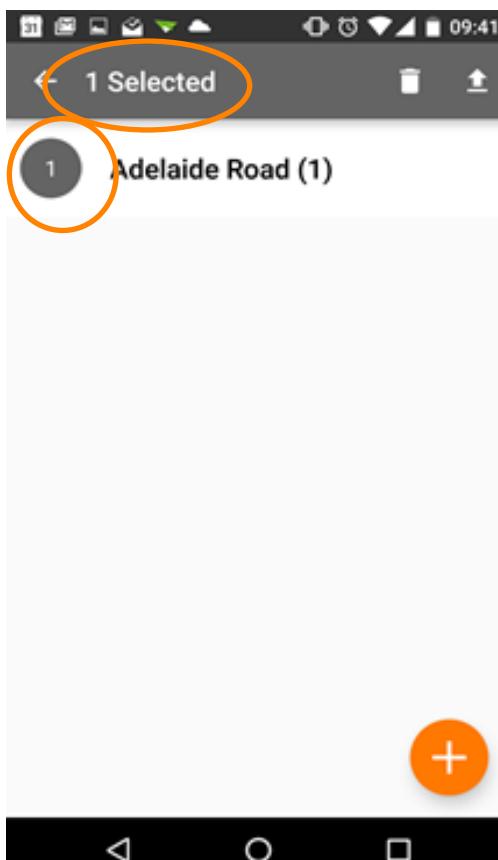


16. Tapping the Map tab shows your collections for this job on a map.

17. Tapping the **+** will take you to the form screen to add another collection.

18. Tapping on the location balloon will take you to that collection.

# uploading data



After you've collected the data, you will want to upload the data to the IKE Office.

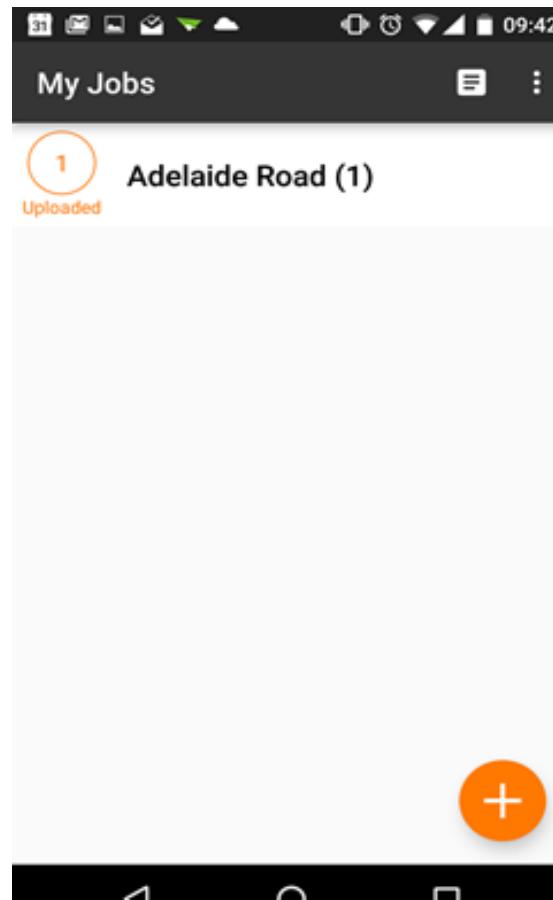
1. Re-establish a Wi-Fi connection or utilize a data package through an AT&T SIM card, if necessary.
2. Return to the jobs list on the **My Jobs** screen.
3. Touch the gray, outlined circle to the left of the job name.
4. Ensure the number to the left of the job becomes highlighted in gray and the correct number of selected files is indicated at the top of the screen.
5. Touch the upload arrow to upload your job.

A dialog box indicates the status of the upload and indicates when successful.

After uploading, the job is paired with an orange, uploaded circle.

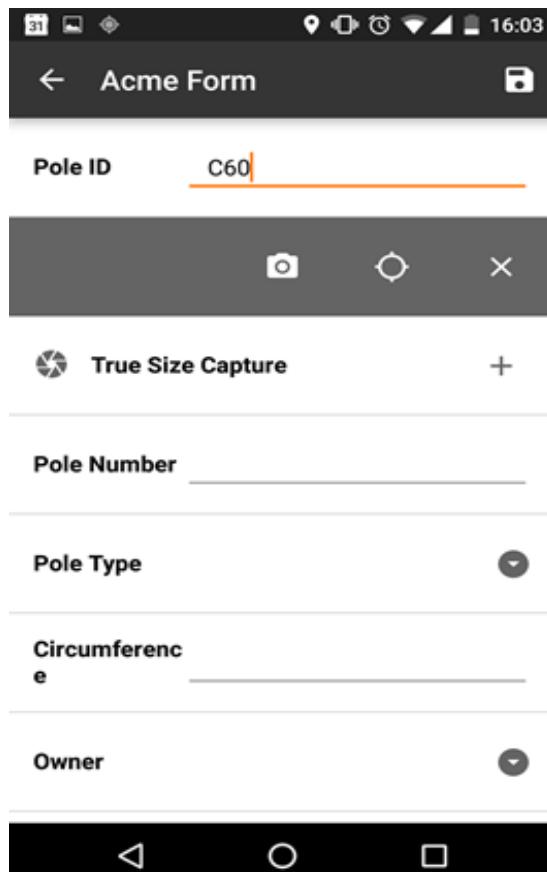
Now you can view the job in IKE Office.

After uploading your files, we recommend exiting the IKE Field app prior to powering down the IKE device.



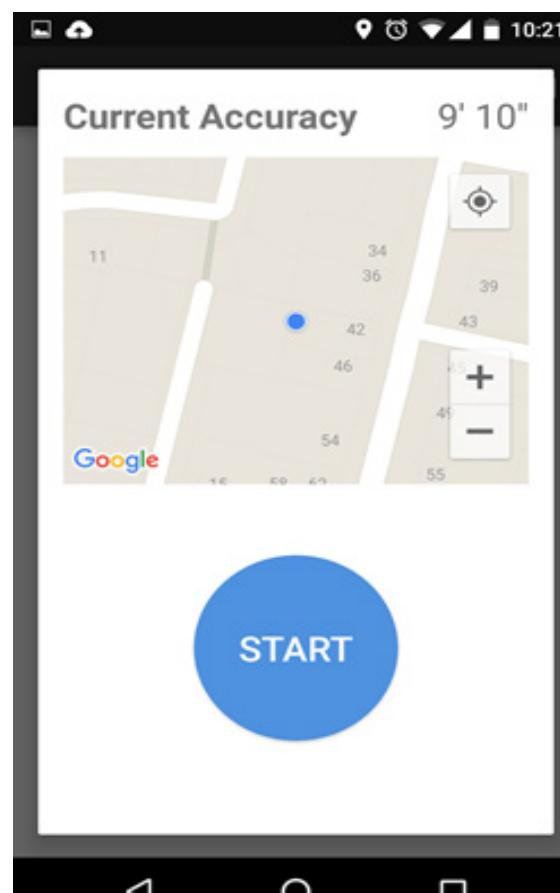
# making measurements

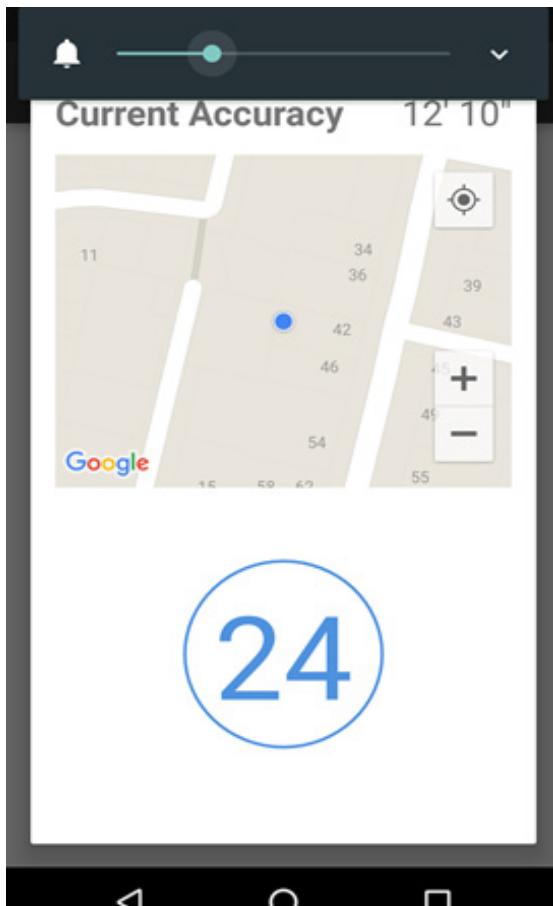
## Local GPS Position



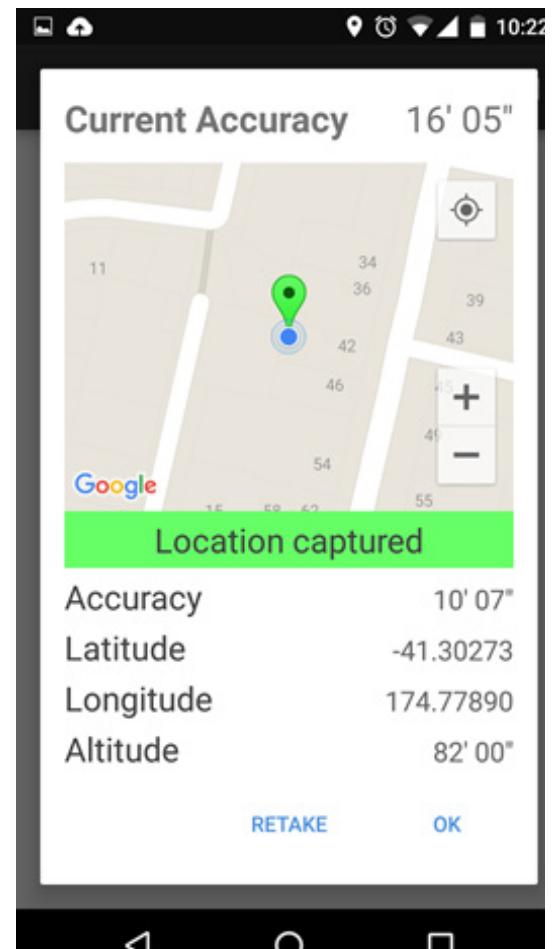
1. To capture a location, select the field and choose from local position (GPS icon)(GPS only) or target position (Camera Icon) (GPS + laser offset).

2. For the Local GPS position tool, the current accuracy shows the expected accuracy of the position. Pressing **START** begins averaging GPS data over 30 seconds to get the best accuracy. Try not to move or cover the device during this process.





3. Counting down



4. Location captured. The green pin on the map shows the location captured. The blue dot shows your current location.

## Target GPS Position



1. Aim at the target with the crosshair to ensure the laser is hitting the object you want to locate.
2. Ensure the crosshair color is green which indicates that all of the instruments (GPS, Compass and Laser) are providing information
3. Tap the blue capture button at the bottom of the screen to take a picture and capture the location.

Note: you can zoom in using the slider on the right to help with aiming

Note: tapping on different areas of the camera will change the brightness/focus, like a standard Android camera.

## Point to Point



1. Aim at the first target and capture when the crosshair turns green.



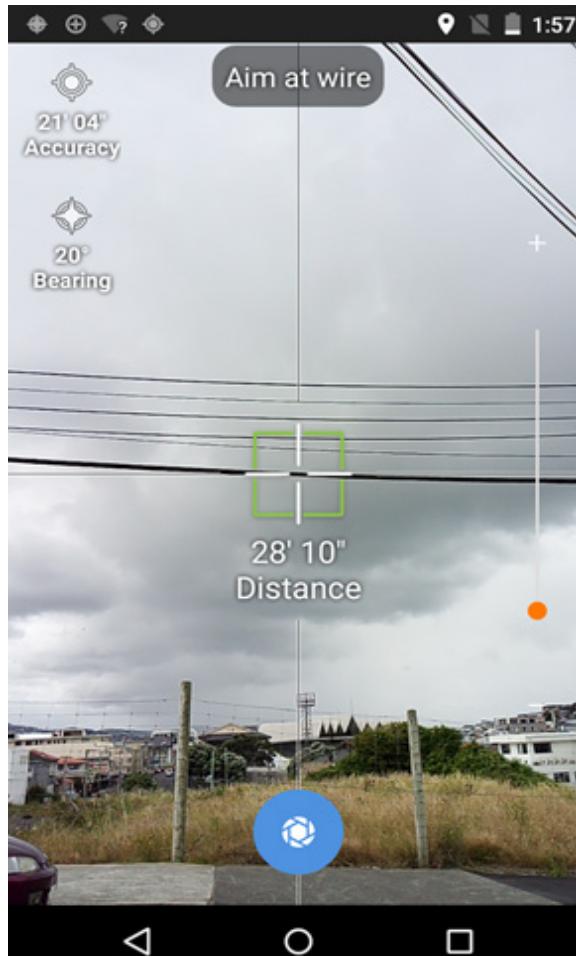
2. Aim at the second target and capture when the crosshair turns green.



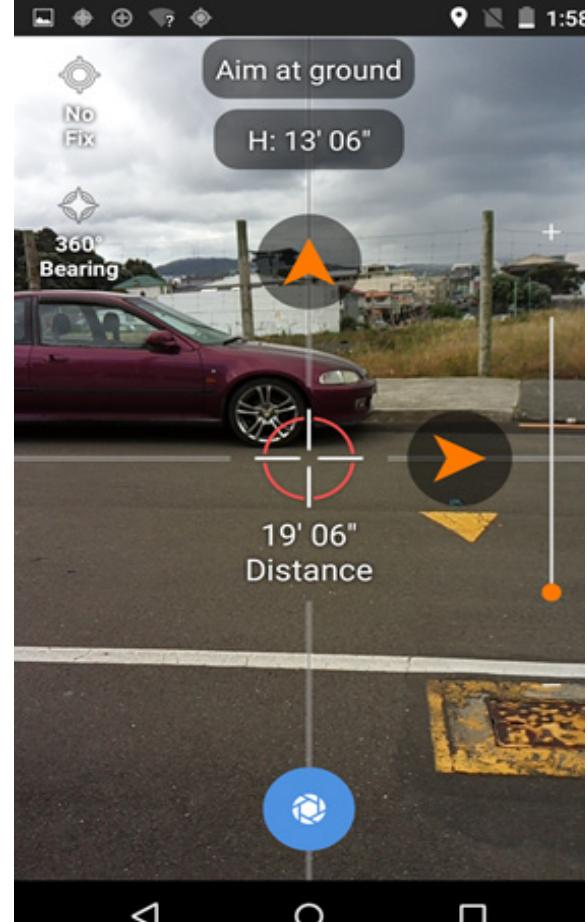
3. The distance and bearing from Point A to Point B are calculated.

4. Click **RETAKE** if you're not satisfied with your results.

## Point to Point



1. Aim at the wire, wait for the crosshair to turn green and tap the capture button.



2. Use the orange guide arrows to locate the position directly below the wire.



3. When the arrows disappear and both the crosshair and the height measurement area turn green, tap the capture button.



4. The results screen shows the height of the wire and a photo with the crosshair.

## Photo Measure



1. Aim at the pole with the crosshair.
2. Ensure the guideline that runs down the whole screen matches the angle of the pole.
3. When the crosshair is green tap the blue capture button at the bottom of the screen.

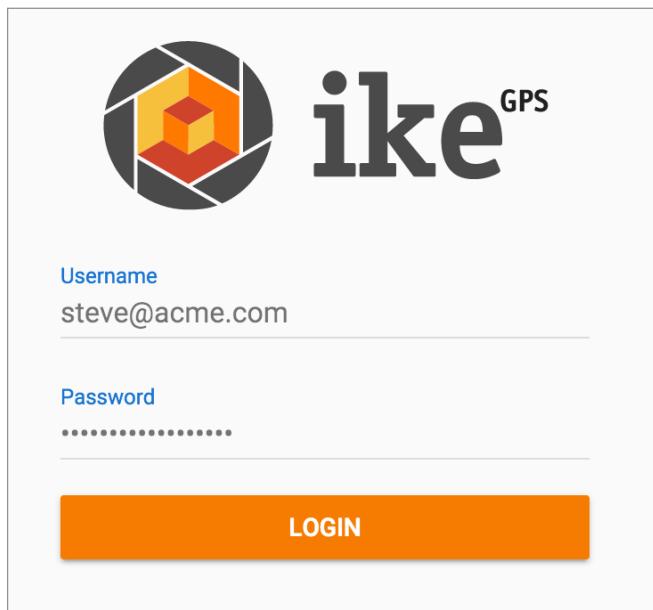
# IKE Office

IKE Office is a cloud-based file management system with which you can

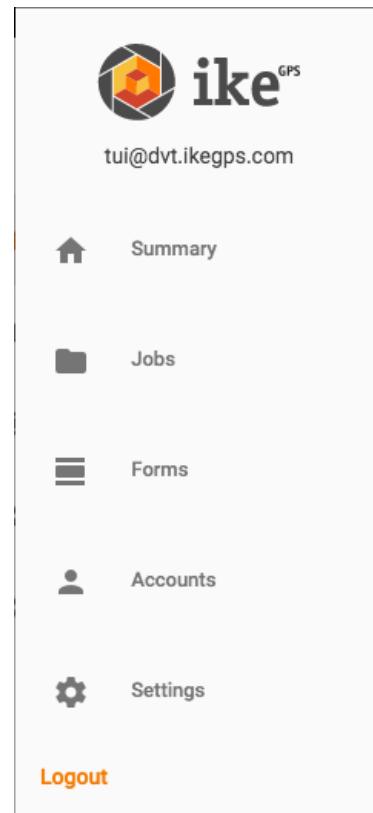
- create customizable forms
- upload and download field data
- measure heights of utility poles and their attachments

## logging in

When signing into IKE Office for the first time use the admin login and password provided by ikeGPS. Enter these details, then click **LOGIN**.



The image shows the IKE Office login page. It features the ikeGPS logo at the top left. Below the logo is a large orange 'LOGIN' button. To the left of the button is a 'Password' field containing several dots. To the left of the password field is a 'Username' field containing 'steve@acme.com'.



## IKE Office tools

On the left side of the IKE Office page are the various IKE Ofice tool tabs:

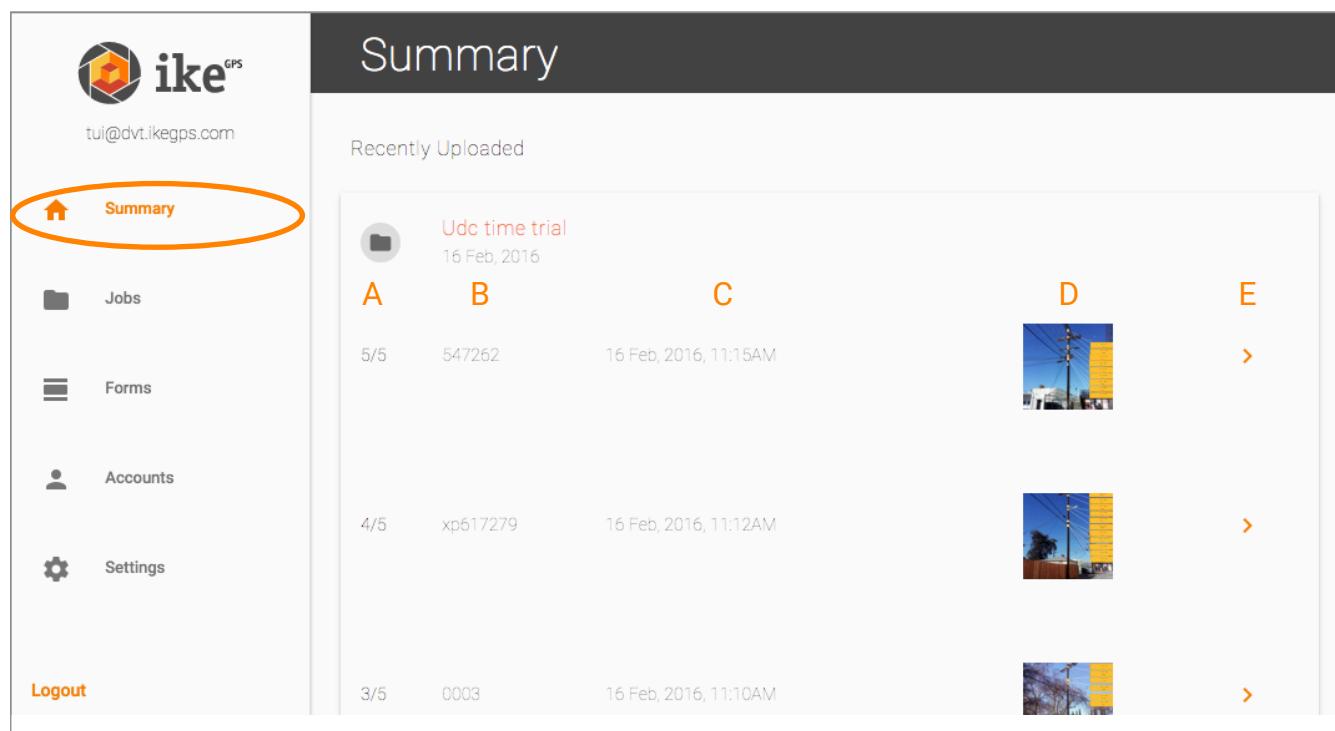
- Summary
- Jobs
- Forms
- Accounts
- Settings

When a tab is accessed, it will be highlighted in orange.

The following section will examine each tab in detail.

## summary screen

The Summary screen shows the most recently uploaded collections and jobs. From here you can navigate to an individual job or collection. To access the summary, click **Summary**.



The screenshot shows the IKE GPS mobile application interface. On the left is a sidebar with the IKE GPS logo, the email address tui@dvt.ikegps.com, and a navigation menu with options: Summary (which is highlighted with an orange oval), Jobs, Forms, Accounts, Settings, and Logout. The main content area is titled "Summary" and contains a section titled "Recently Uploaded". It lists three collections: "Udc time trial" (16 Feb, 2016), "xp617279" (16 Feb, 2016, 11:12AM), and "0003" (16 Feb, 2016, 11:10AM). Each collection entry includes a thumbnail image (labeled D), a right-pointing arrow (labeled E), and labels A, B, and C indicating the number of features, pole ID, and collection date/time respectively. The "Logout" button is located at the bottom of the sidebar.

Collection	A	B	C	D	E
Udc time trial	5/5	547262	16 Feb, 2016		
xp617279	4/5	xp617279	16 Feb, 2016, 11:12AM		
0003	3/5	0003	16 Feb, 2016, 11:10AM		

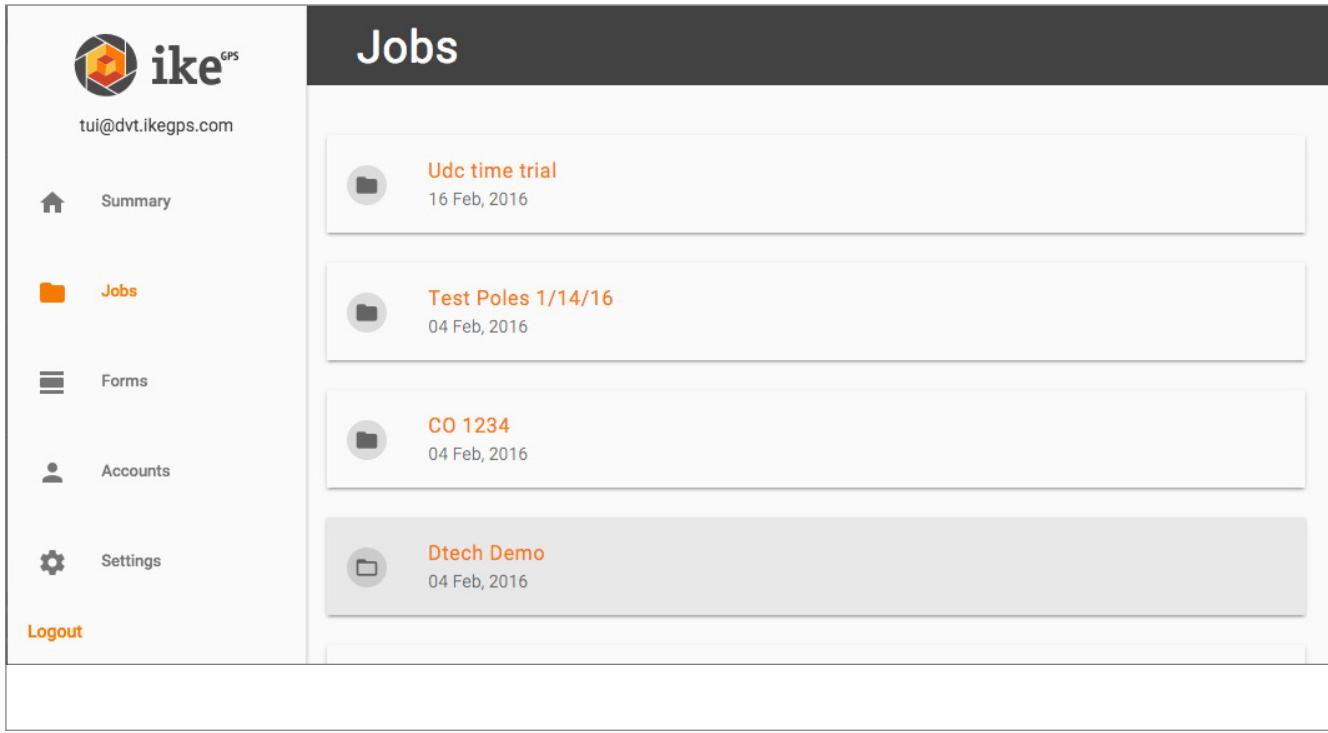
Now you see the following highlights of the uploaded jobs:

- Number of features (A)
- Pole ID (B)
- Date and time of collection (C)
- Thumbnail sets of collection captures (D)
- More information (E)

Clicking on a right arrow for more information shows you that pole's complete information.

## jobs screen

The Jobs screen shows all the data uploaded from the IKE 4 device to the specific account. Jobs are displayed chronologically, based on the date they were collected. To access the jobs, click **Jobs**.



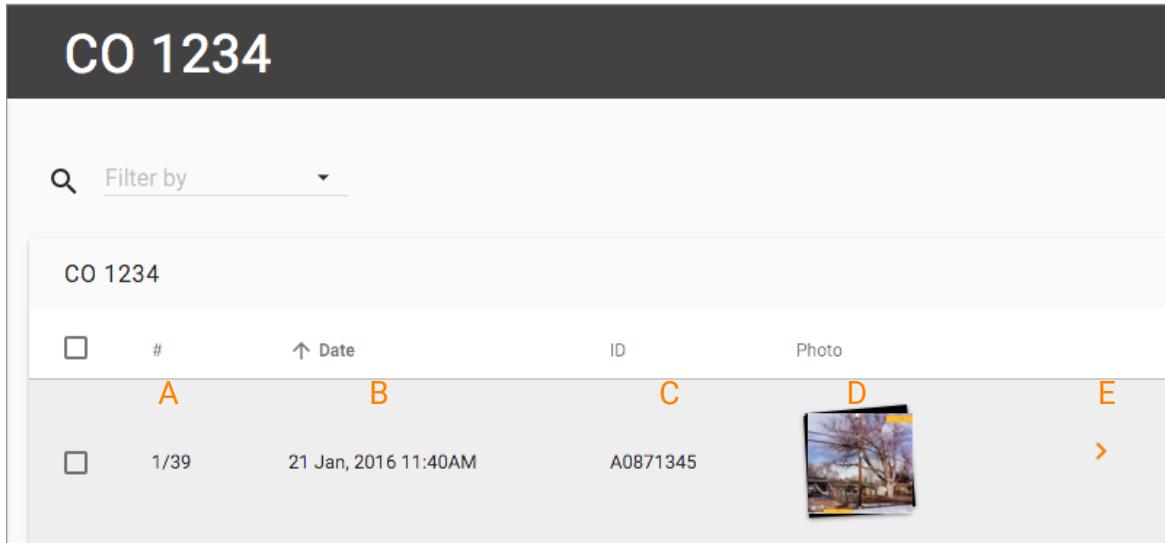
The screenshot shows the IKE GPS software interface. On the left is a vertical sidebar with the following menu items:

- Summary (Home icon)
- Jobs** (Folder icon)
- Forms (List icon)
- Accounts (User icon)
- Settings (Gear icon)
- Logout

The main content area is titled "Jobs" and displays a list of uploaded jobs:

- Udc time trial (16 Feb, 2016)
- Test Poles 1/14/16 (04 Feb, 2016)
- CO 1234 (04 Feb, 2016)
- Dtech Demo (04 Feb, 2016)

By selecting a Job name, the job's summary appears.



The screenshot shows the job summary for "CO 1234". The top bar displays the job name. Below it is a search bar with a magnifying glass icon and a "Filter by" dropdown. The main area contains a table with the following data:

<input type="checkbox"/>	#	↑ Date	ID	Photo	
<input type="checkbox"/>	A	B	C	D	E
<input type="checkbox"/>	1/39	21 Jan, 2016 11:40AM	A0871345		

Now you see the following highlights of the uploaded jobs:

- Number of features (A)
- Pole ID (B)
- Date and time of collection (C)
- Thumbnail sets of collection captures (D)
- More information (E)

Clicking on a right arrow for more information shows you that pole's complete information.

**CO 1234**  SPIDACalc Form v2

Pole ID **A0871345**

---

Location

Latitude	39.60959
Longitude	-104.99925
Altitude	5386' 5"
Accuracy	2' 5"

---

True Size Capture

Now you see all the data collected for this feature, such as

- Pole ID
- Location data
- True Size capture
- Sub-forms

This data is shaped by form creation and field data collection. Therefore, it is very important to be mindful of requirements when creating forms, via the IKE Office Forms tab.

## forms screen

The Forms screen shows all the available forms. From this screen you can add customizable forms to your account. To access the forms, click **Forms**.

Form Name	Created Date	Description	Action
Spine	03/04/2016 03:03PM	along spine road	EDIT FORM
Accuracy Test Form	03/04/2016 10:18AM	Testing accuracy	EDIT FORM
SPIDACalc Form v2	02/04/2016 05:23PM	Generated from SCE.client	EDIT FORM
Pole Loading Form v1.1	02/04/2016 03:53PM	Generated SPIDACalc Form	EDIT FORM
Test	12/21/2015 06:38PM	Test	EDIT FORM

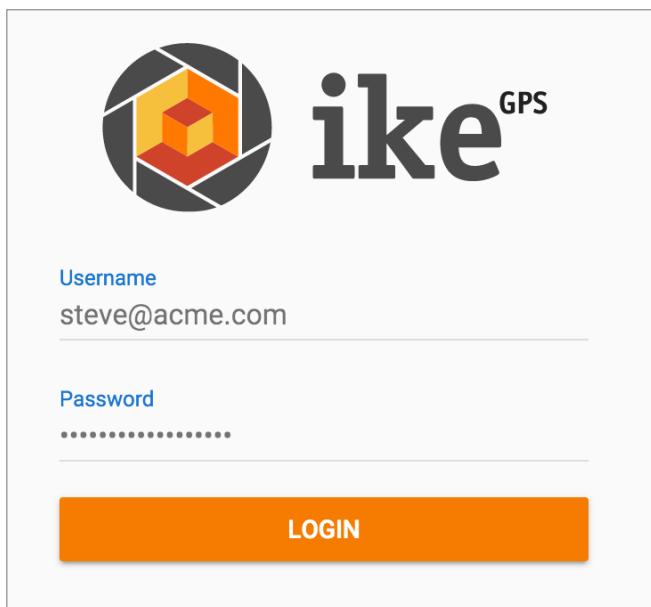
By selecting a form's edit button, the Form menu appears, and you can

Test a new form against a pole, to ensure you have all the necessary information for pole-loading analysis.

# IKE Office quick guide

## logging in

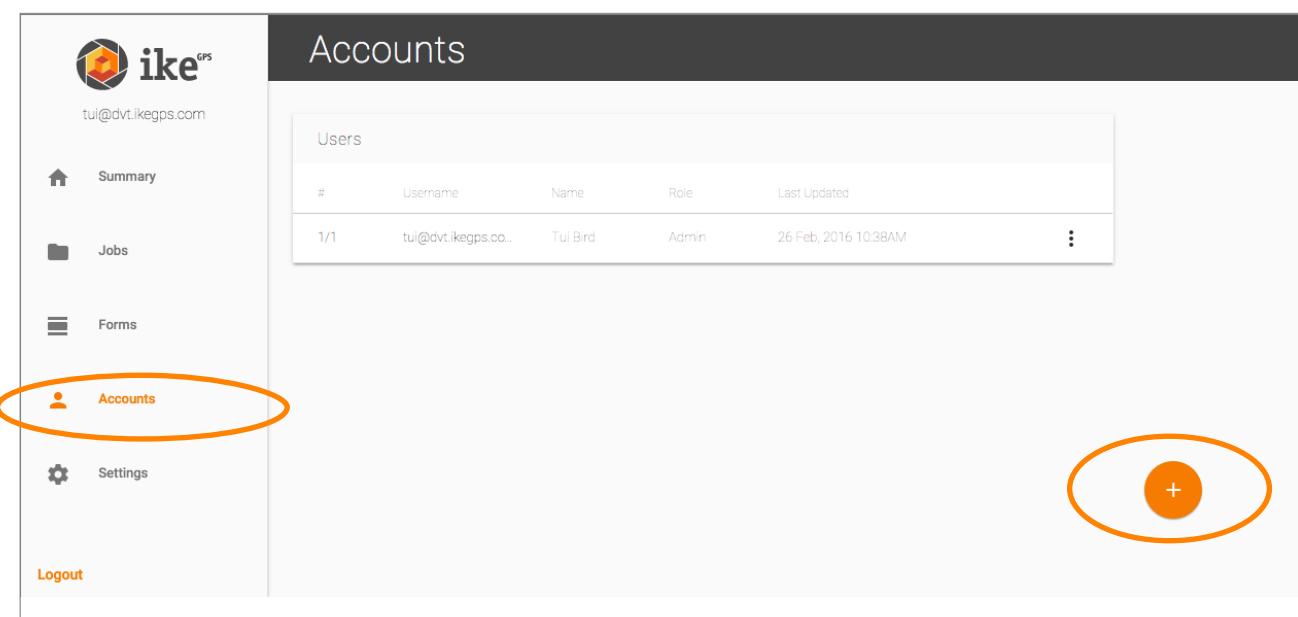
When signing into IKE Office for the first time use the admin login and password provided by ikeGPS. Enter these details, then click **LOGIN**.



The image shows the IKE Office login page. It features a logo on the left with a stylized orange and red cube inside a hexagonal frame. To the right of the logo is the text "ike GPS". Below the logo is a "Username" field containing "steve@acme.com". Below that is a "Password" field with several dots. At the bottom is a large orange "LOGIN" button.

## managing accounts

1. To add a new user, click on **Accounts** then on **+**.



The image shows the IKE Office Accounts screen. The left sidebar has links for "Summary", "Jobs", "Forms", "Accounts" (which is circled in orange), and "Settings". The main area is titled "Accounts" and shows a table for "Users". The table has columns for #, Username, Name, Role, and Last Updated. There is one entry: # 1/1, Username tuibird@ikegps.com, Name Tui Bird, Role Admin, Last Updated 26 Feb, 2016 10:38AM. A large orange circle with a plus sign is overlaid on the "Accounts" button in the sidebar.

#	Username	Name	Role	Last Updated
1/1	tuibird@ikegps.com	Tui Bird	Admin	26 Feb, 2016 10:38AM

2. Enter the user details, then click **create**.

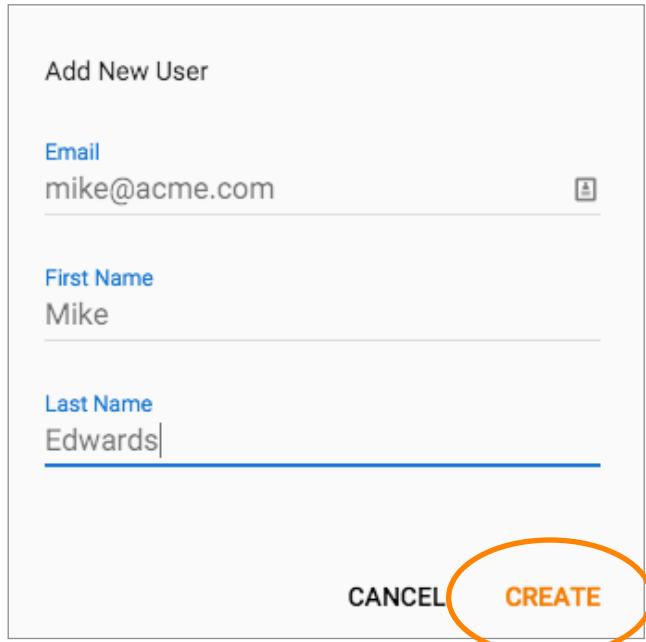
Add New User

Email  
mike@acme.com

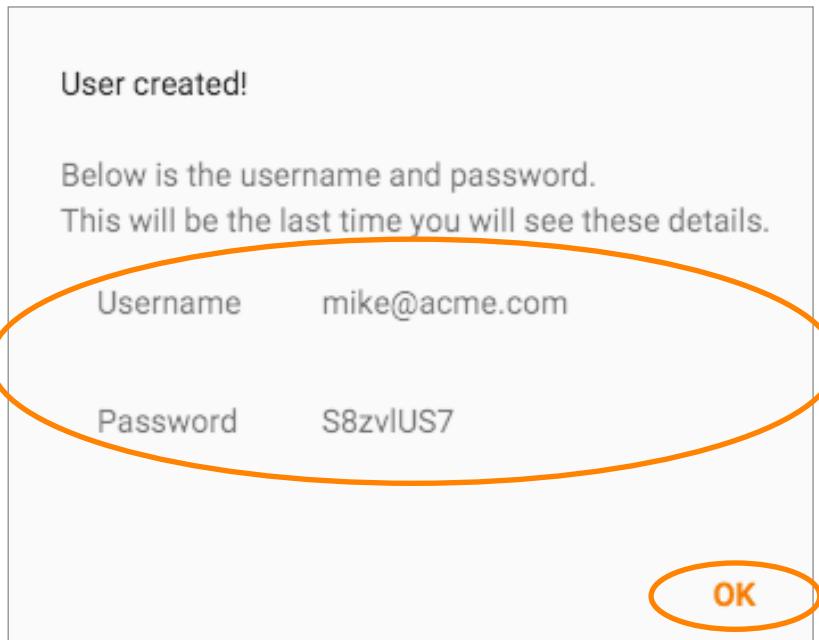
First Name  
Mike

Last Name  
Edwards

**CANCEL** **CREATE**



3. When the confirmation message appears, copy the login details (username and password) and pass them on to the user. Click **OK** to close the window.



To delete a user or reset a password, click the More icon (⋮) to the right of the account and select the option required.

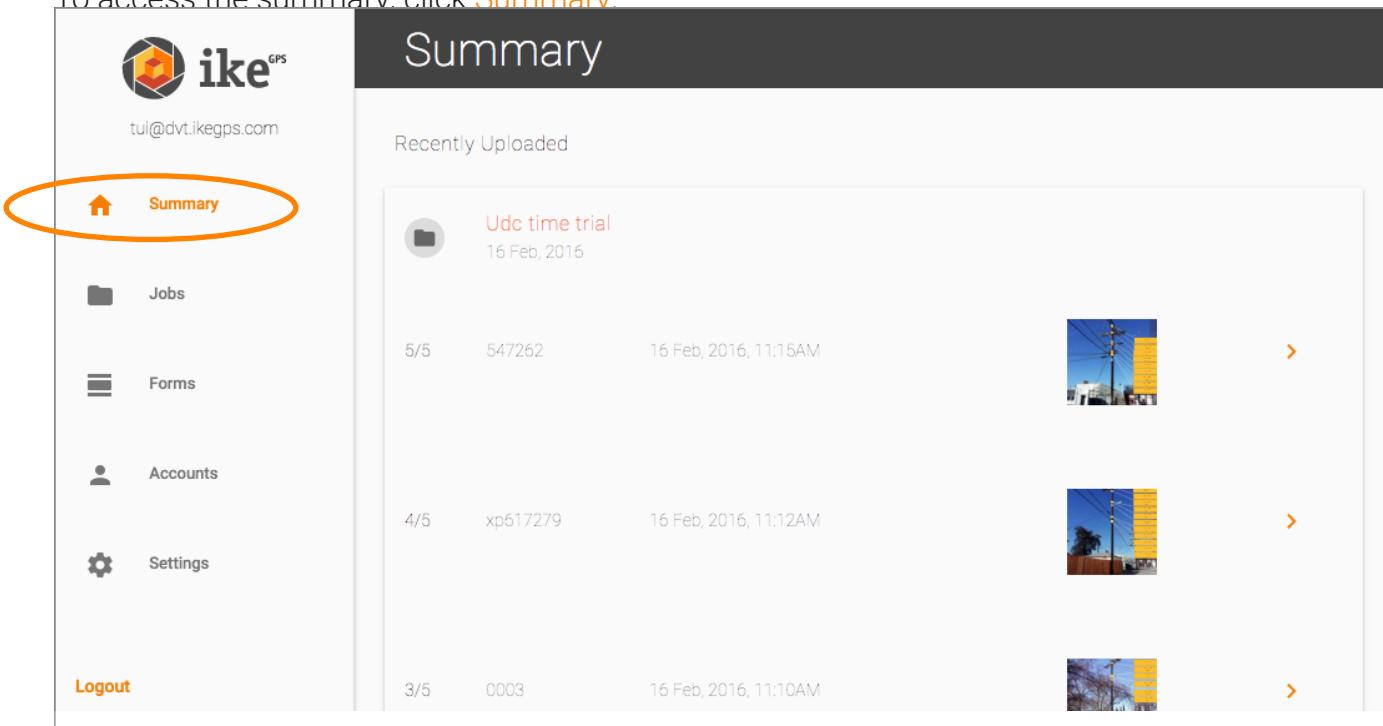
Users				
#	Username	Name	Role	Last Updated
1/2	mike@acme.com	Mike Edwards	User	14 Dec, 2015 4:08PM
2/2	steve@acme.com	Steve Smith	Admin	14 Dec, 2015 3:55PM

A context menu is displayed for the second user (Steve Smith), with options "Delete User" and "Reset Password" highlighted by a red circle.

## summary screen

The summary screen shows the most recently uploaded collections and jobs. From here you can navigate to an individual job or collection.

To access the summary, click **Summary**

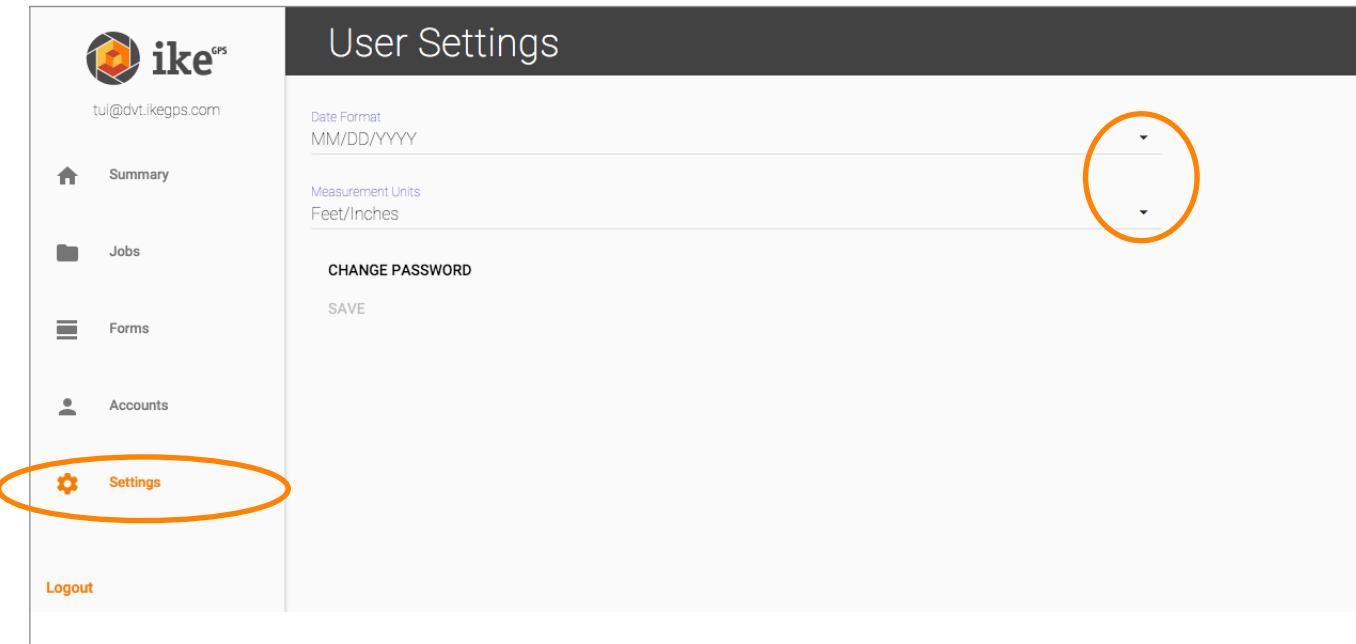


The screenshot shows the IKE GPS mobile application's summary screen. On the left is a sidebar with navigation links: Home (Summary, which is highlighted with an orange circle), Jobs, Forms, Accounts, Settings, and Logout. The main content area is titled "Summary" and shows a list of "Recently Uploaded" items. Each item includes a thumbnail image, the collection name, the count, the ID, and the upload date. For example, the first item is "Udc time trial" with 5/5 files, ID 547262, and uploaded on 16 Feb, 2016, 11:15AM. There are three small thumbnail images and three orange navigation arrows on the right side of the list.

Collection	Count	ID	Upload Date
Udc time trial	5/5	547262	16 Feb, 2016, 11:15AM
	4/5	xp617279	16 Feb, 2016, 11:12AM
	3/5	0003	16 Feb, 2016, 11:10AM

## customising the date format and measurement units

You can change the date format and measurement units. To do this, click **Settings** then click ▾ to select the preferred date format and/or measurement units.

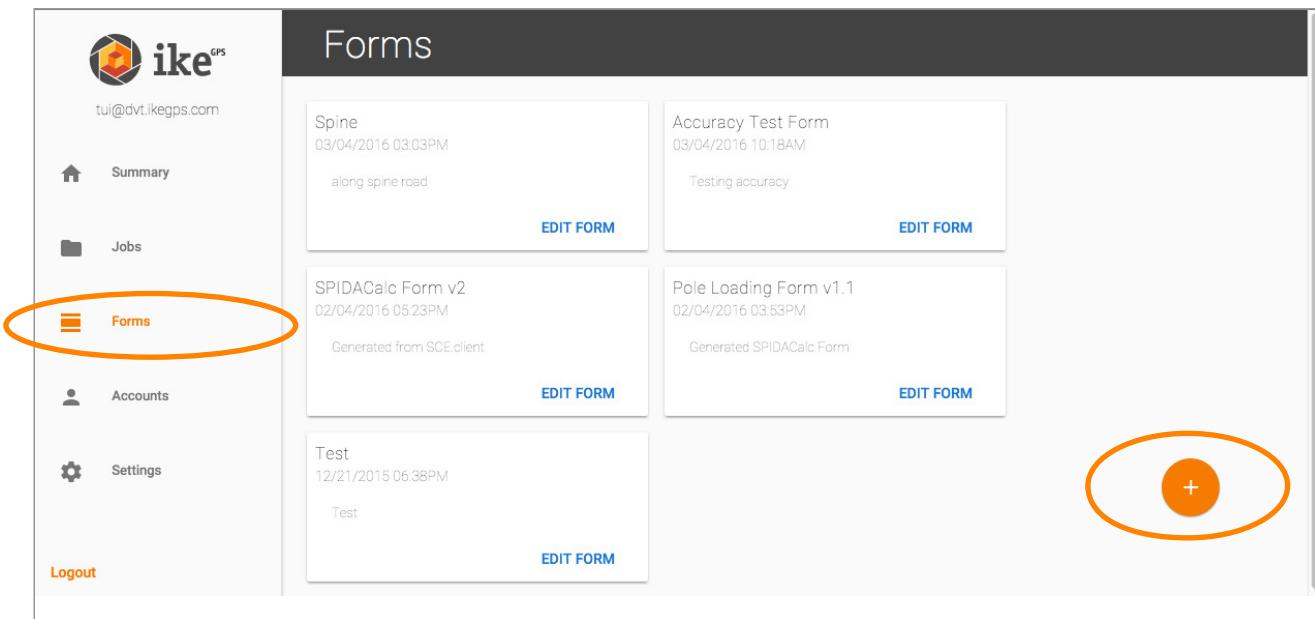


The screenshot shows the 'User Settings' page. On the left is a sidebar with icons for Summary, Jobs, Forms, Accounts, and Settings. The 'Settings' icon is circled in orange. The main area shows 'Date Format' set to 'MM/DD/YYYY' and 'Measurement Units' set to 'Feet/Inches'. There are 'CHANGE PASSWORD' and 'SAVE' buttons at the bottom.

## creating a form

Note: It is important to set up the Internet connection to access your forms, especially the first time using the network.

1. To create a form, click on **Forms** then on .

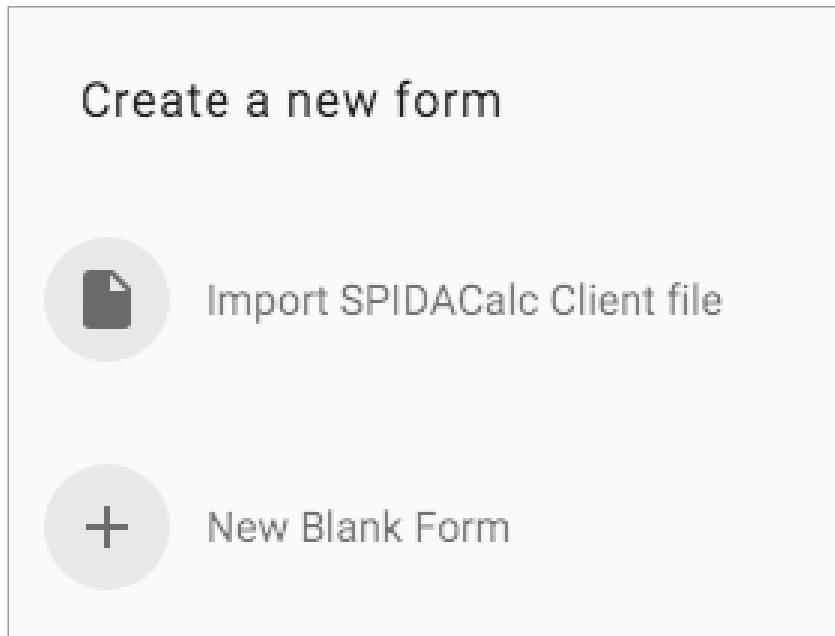


The screenshot shows the 'Forms' page. On the left is a sidebar with icons for Summary, Jobs, Forms, Accounts, and Settings. The 'Forms' icon is circled in orange. The main area lists several forms: 'Spine' (03/04/2016 03:03PM, along spine road), 'Accuracy Test Form' (03/04/2016 10:18AM, Testing accuracy), 'SPIDACalc Form v2' (02/04/2016 05:23PM, Generated from SCE.client), 'Pole Loading Form v1.1' (02/04/2016 03:53PM, Generated SPIDACalc Form), and 'Test' (12/21/2015 06:38PM, Test). Each form has an 'EDIT FORM' button. A large orange circle with a plus sign is drawn around the 'EDIT FORM' button for the 'Test' form.

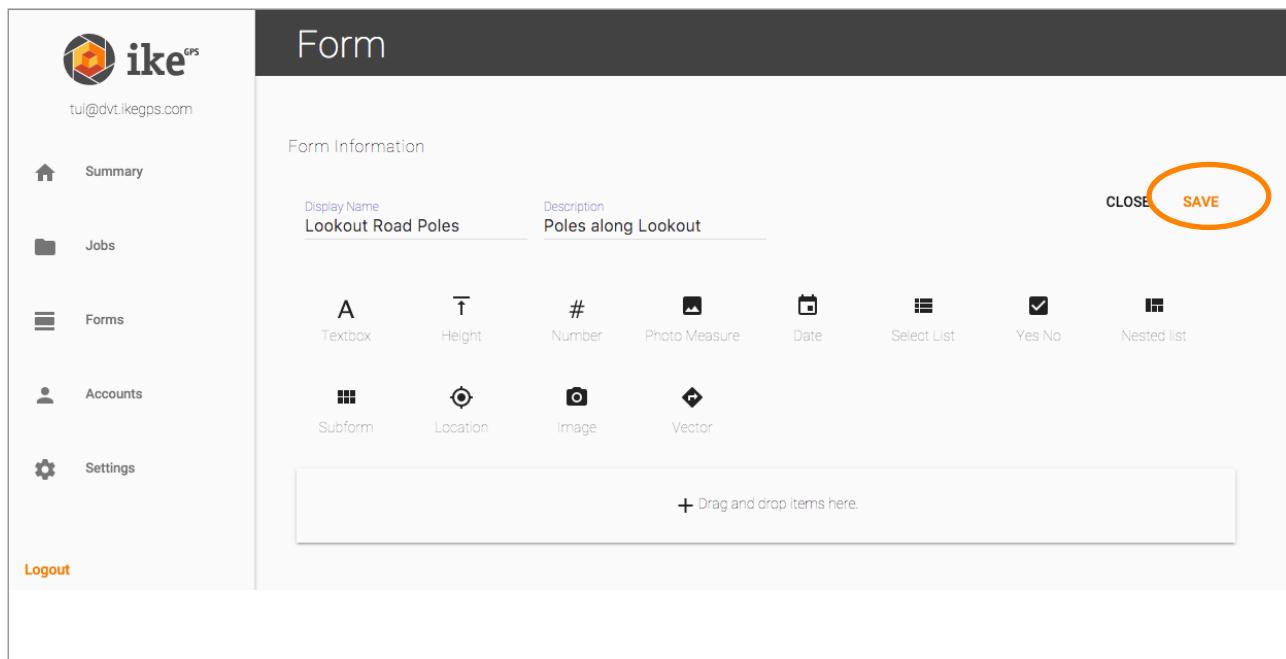
2. Select the type of form you want to create.

If you have a client.json file from ikeGPS, you can select **Import SPIDACalc Client file** to create a form specifically to be used with SPIDACalc.

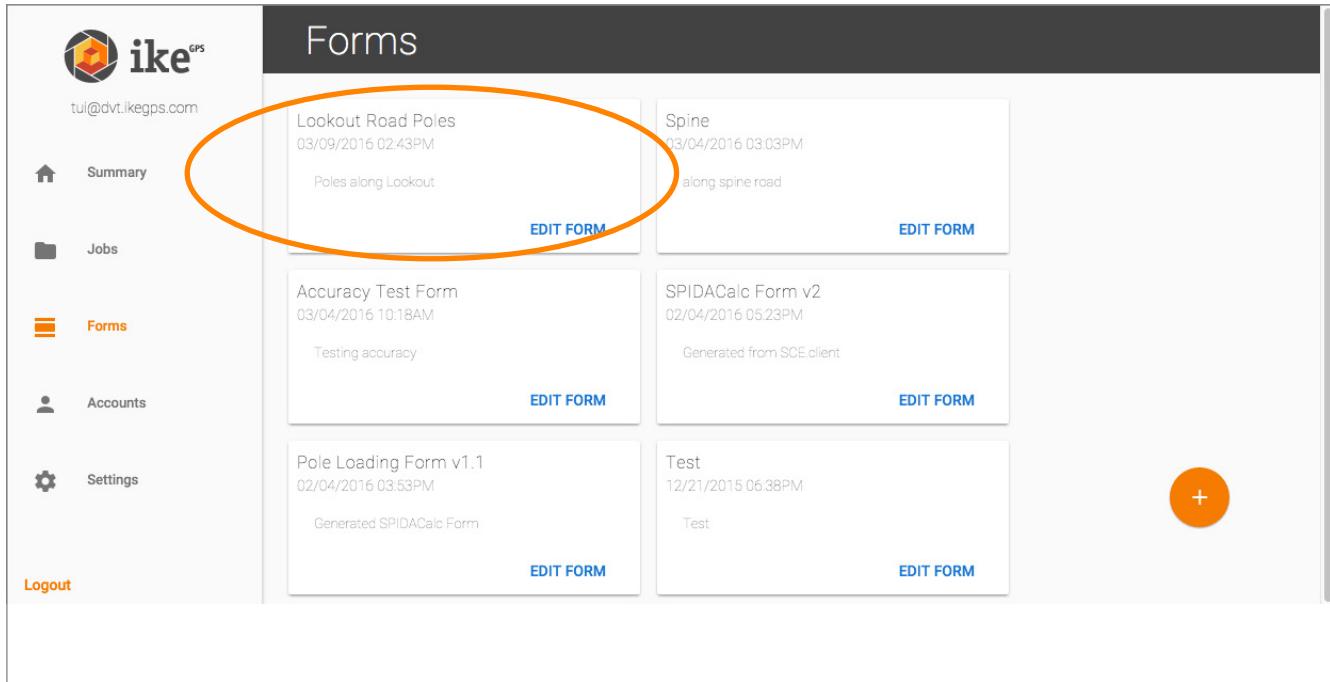
To create a form from scratch, select **New Blank Form**.



3. When the form is created, click **SAVE** to make the form available for download onto the IKE device.



The created forms are displayed as shown below.

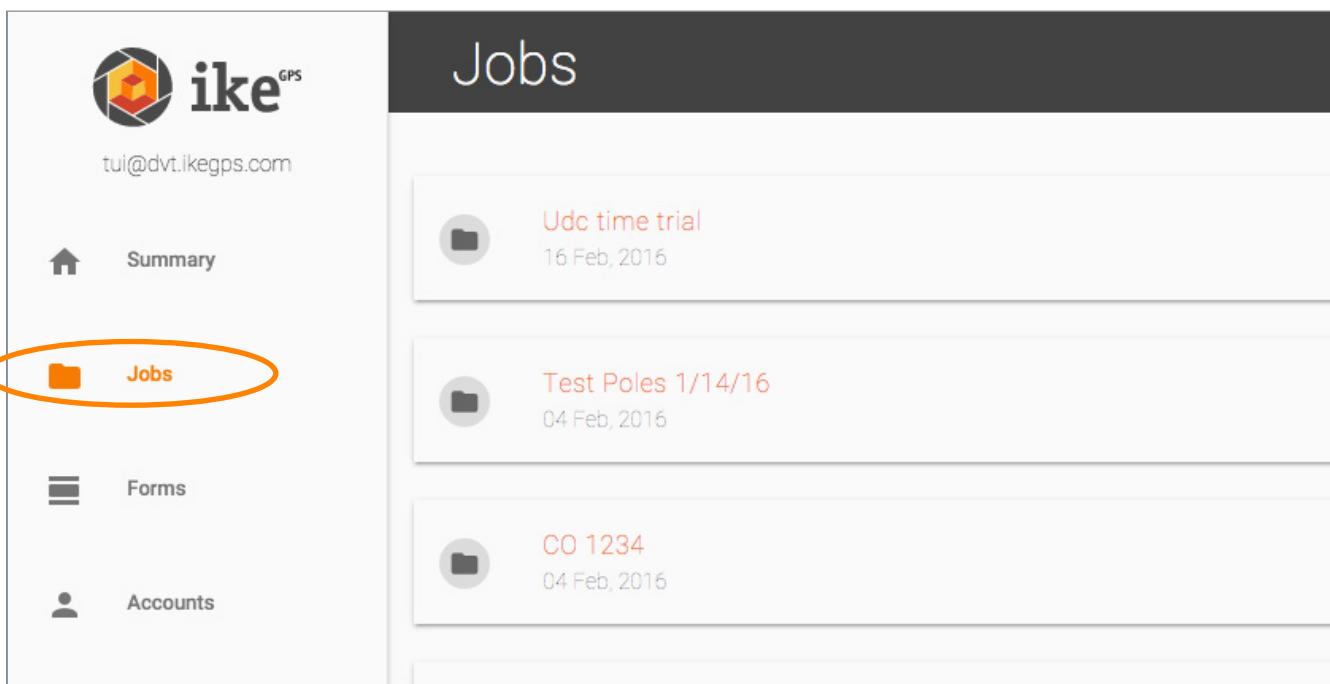


The screenshot shows the IKE GPS mobile application interface. The left sidebar contains navigation links: Summary, Jobs, Forms (which is highlighted with an orange circle), Accounts, Settings, and Logout. The main content area is titled 'Forms' and displays a grid of five form entries. Each entry includes a thumbnail, the form name, the creation date, a brief description, and an 'EDIT FORM' button. The first form, 'Lookout Road Poles', is circled in orange. The fifth form, 'Test', has an orange circle with a '+' sign to its right, indicating it can be edited. The top right corner of the screen shows the user's email: tui@dvt.ikegps.com.

Form Name	Created On	Description	Action
Lookout Road Poles	03/09/2016 02:43PM	Poles along Lookout	EDIT FORM
Spine	03/04/2016 03:03PM	along spine road	EDIT FORM
Accuracy Test Form	03/04/2016 10:18AM	Testing accuracy	EDIT FORM
SPIDACalc Form v2	02/04/2016 05:23PM	Generated from SCE client	EDIT FORM
Pole Loading Form v1.1	02/04/2016 03:53PM	Generated SPIDACalc Form	EDIT FORM
Test	12/21/2015 06:38PM	Test	EDIT FORM

## jobs and collections

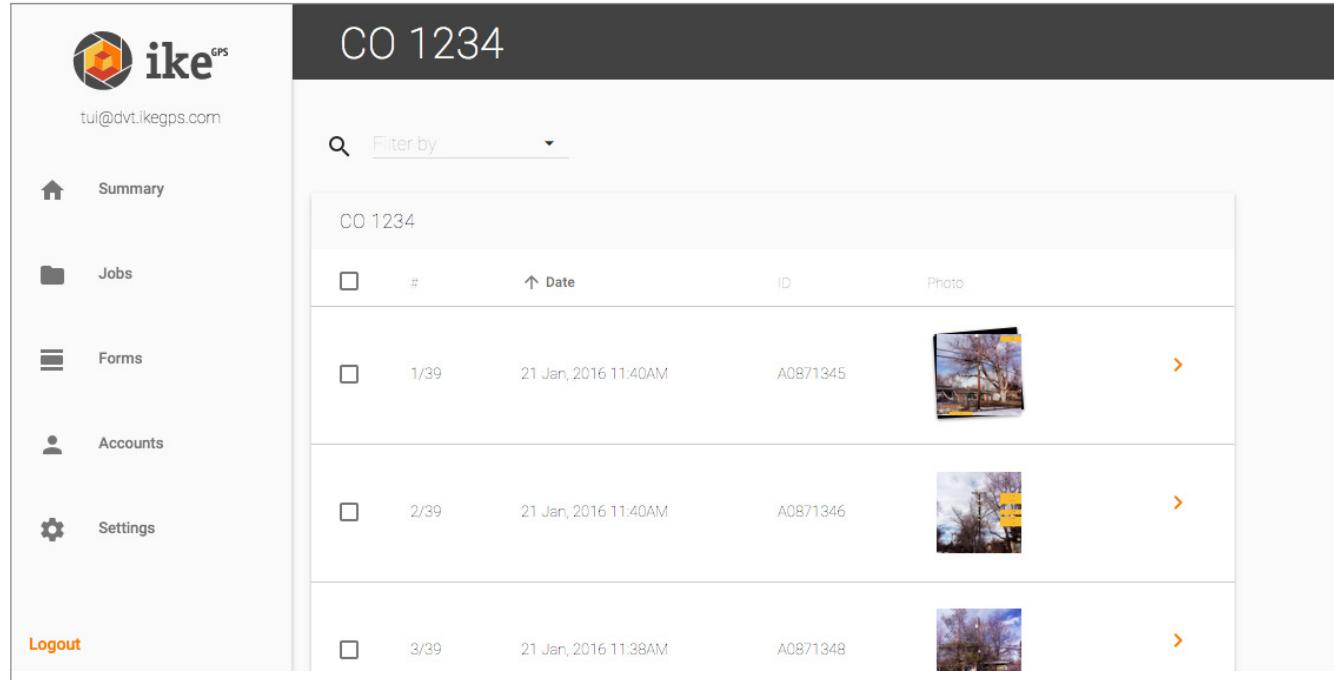
To display all the jobs collected for your organisation, click **Jobs**.



The screenshot shows the IKE GPS mobile application interface. The left sidebar contains navigation links: Summary, Jobs (which is highlighted with an orange circle), Forms, and Accounts. The main content area is titled 'Jobs' and displays a list of three jobs. Each job entry includes a thumbnail, the job name, and the creation date. The first job, 'Udc time trial', is circled in orange.

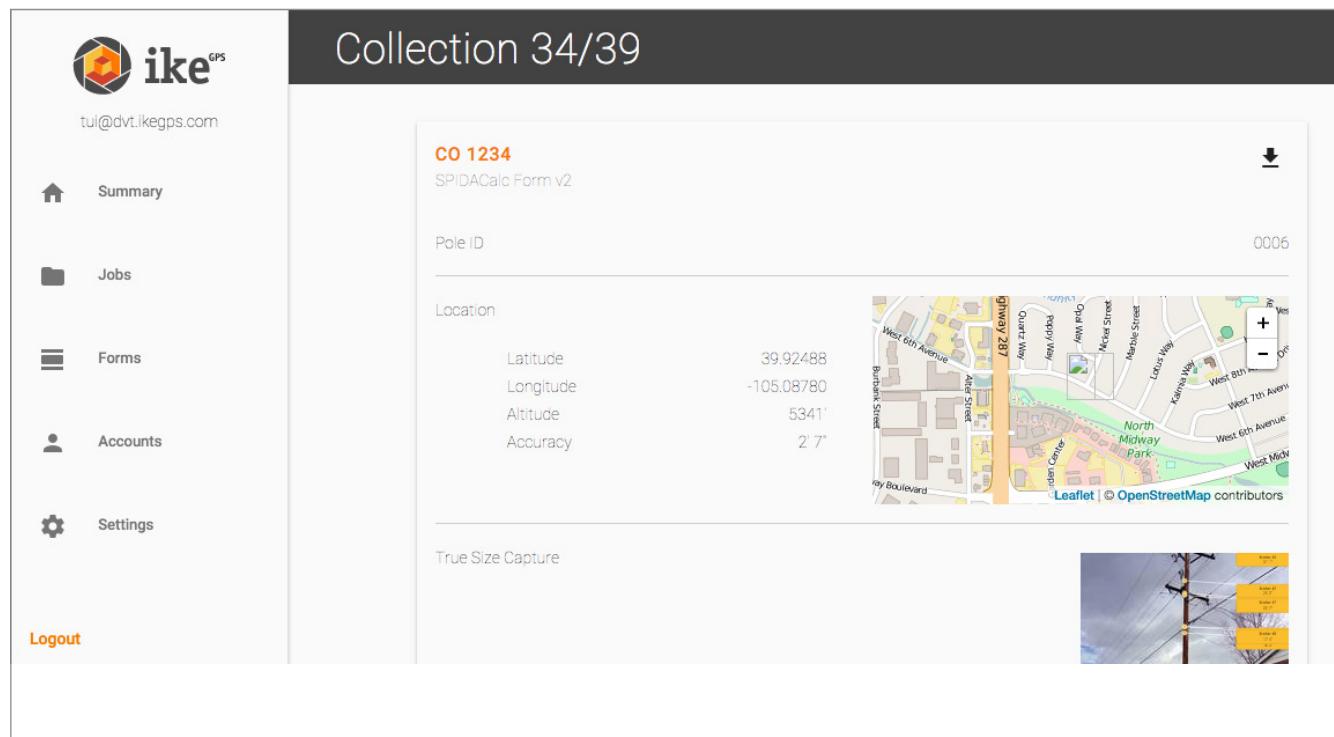
Job Name	Created On
Udc time trial	16 Feb, 2016
Test Poles 1/14/16	04 Feb, 2016
CO 1234	04 Feb, 2016

Selecting a job shows all of the collections for that job.



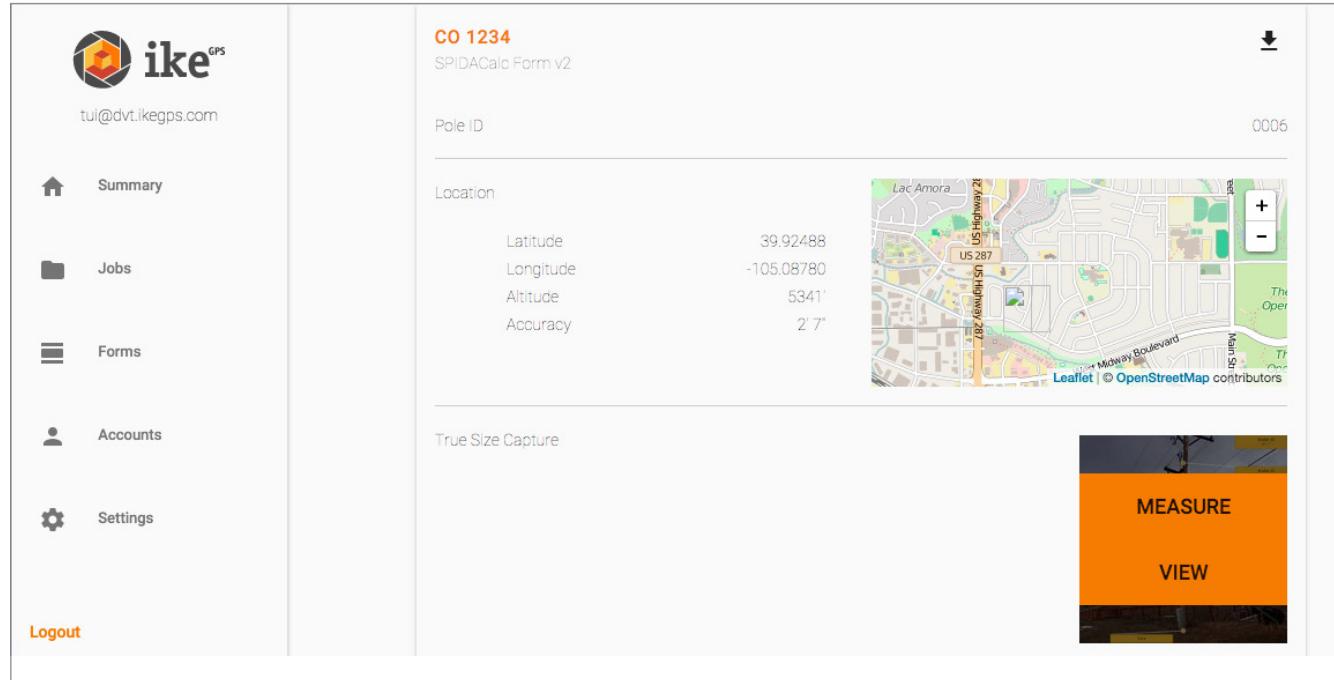
The screenshot shows the IKE GPS mobile application interface. On the left is a vertical navigation bar with icons for Summary, Jobs, Forms, Accounts, and Settings, along with a Logout button. The main content area is titled "CO 1234". At the top is a search bar with a magnifying glass icon and a "Filter by" dropdown. Below the search bar is a table header with columns: a checkbox, "#", "Date" (with an upward arrow), "ID", and "Photo". The table contains three data rows, each representing a collection. Each row includes a checkbox, a collection number (1/39, 2/39, 3/39), a timestamp (21 Jan, 2016 11:40AM or 11:38AM), an ID (A0871345, A0871346, A0871348), a thumbnail image, and an orange arrow icon pointing to the right.

Selecting an individual collection (>) will show all of the data collected on the form.



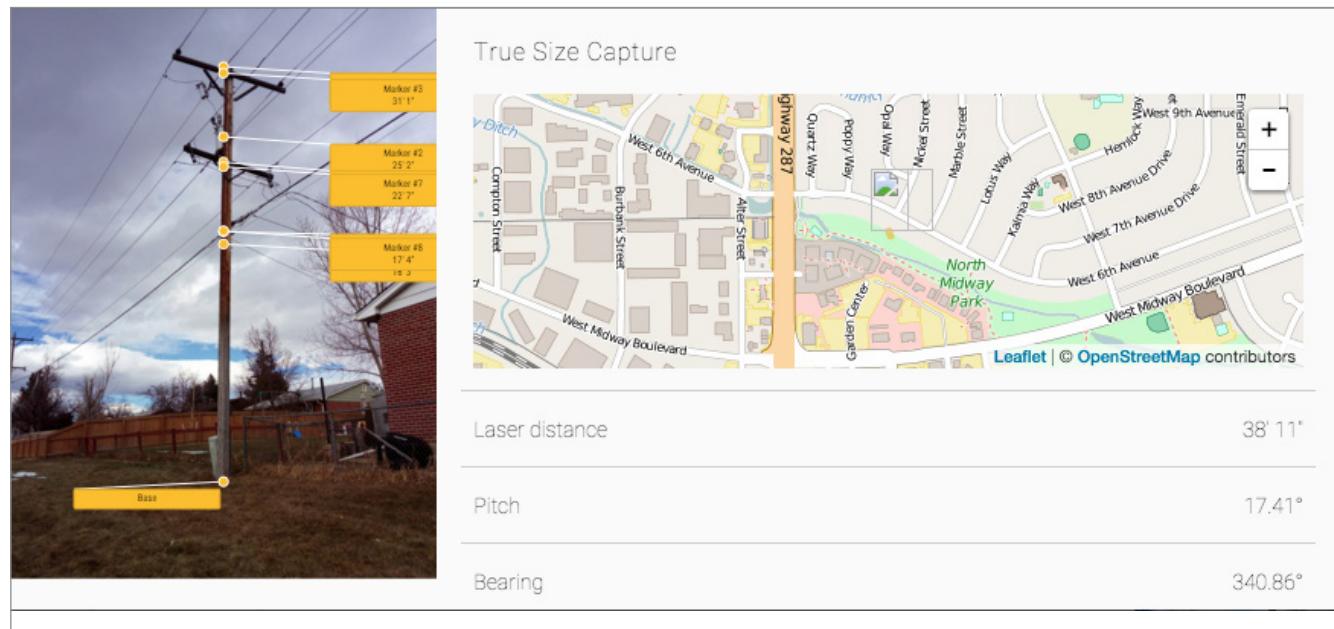
The screenshot shows the IKE GPS mobile application interface, similar to the previous one but with a different job selected. The main content area is titled "Collection 34/39". On the left is a vertical navigation bar with icons for Summary, Jobs, Forms, Accounts, and Settings, along with a Logout button. The main content area shows a form for "CO 1234" using "SPIDACalc Form v2". The form includes fields for "Pole ID" (0006) and "Location". The "Location" section displays coordinates: Latitude 39.92488, Longitude -105.08780, Altitude 5341', and Accuracy 2' 7". To the right of the location data is a map of a residential area with streets like "West 6th Avenue", "Brown Street", "Adair Street", "May Boulevard", "North Midway Park", and "Kings Way". Below the map is a "True Size Capture" image showing a utility pole with various measurement labels. A zoom control with a minus sign is located to the right of the map.

Mousing over an image shows a menu that allows you to view or go to Photo Measure



The screenshot shows the ike GPS software interface. On the left is a sidebar with icons for Summary, Jobs, Forms, Accounts, Settings, and Logout. The main area displays a map of a residential area with street names like Midway Boulevard, West 6th Avenue, and West 7th Avenue. A specific location is highlighted with a yellow box. The text "CO 1234" and "SPIDACalc Form v2" are at the top. Below the map are fields for "Pole ID" (0006) and "Location" (Latitude 39.92488, Longitude -105.08780, Altitude 5341', Accuracy 2' 7"). To the right of the map is a "True Size Capture" button, which, when moused over, reveals a menu with "MEASURE" and "VIEW" options. The "Logout" button is at the bottom left of the sidebar.

Selecting a view shows a summary of the capture, including the photo, location and measurement details.

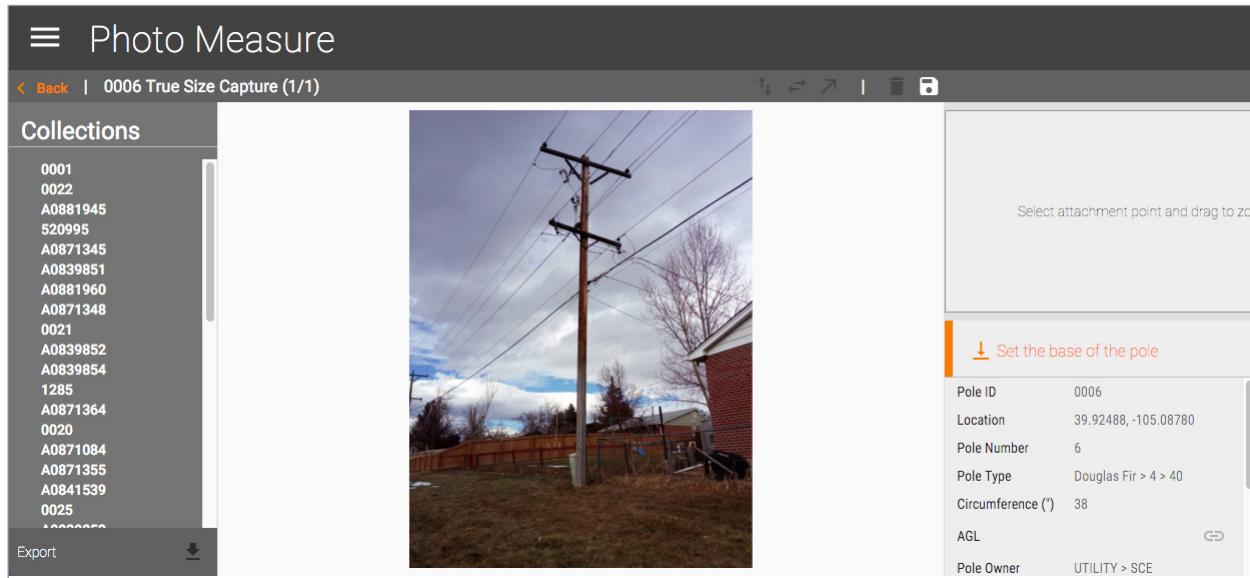


The screenshot shows a "True Size Capture" view. On the left is a photograph of a utility pole with several yellow markers attached to its wires. The markers are labeled: "Marker #3 25' 1\"", "Marker #2 25' 2\"", "Marker #7 22' 7\"", and "Marker #8 17' 4\"". A yellow box at the bottom of the pole is labeled "Base". To the right of the photo is a map of the same residential area. Below the map are four data fields: "Laser distance" (38' 11"), "Pitch" (17.41°), and "Bearing" (340.86°). The "True Size Capture" button is at the top left of the view area.

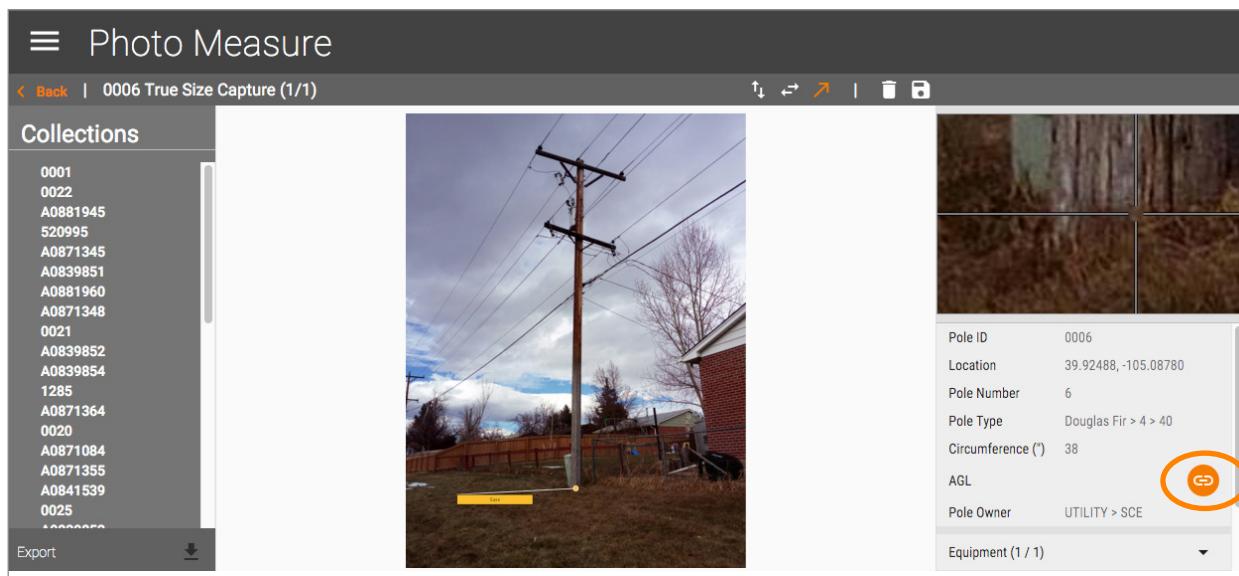
Click outside the image to close the image.

## measuring from a photo

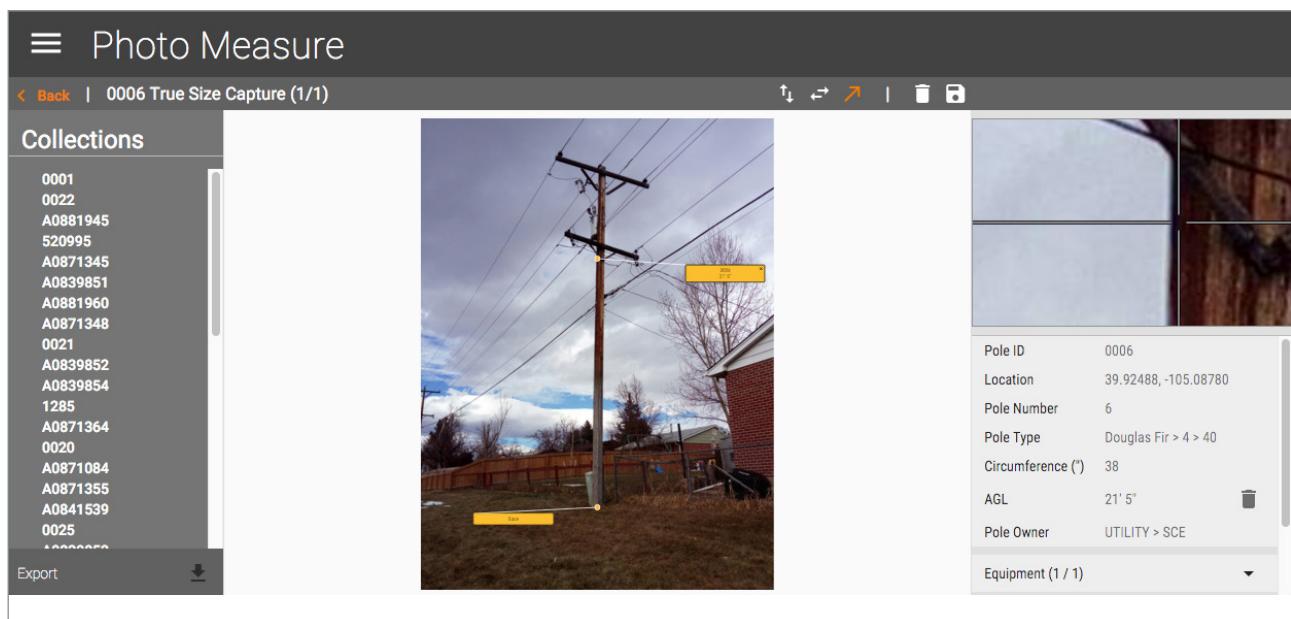
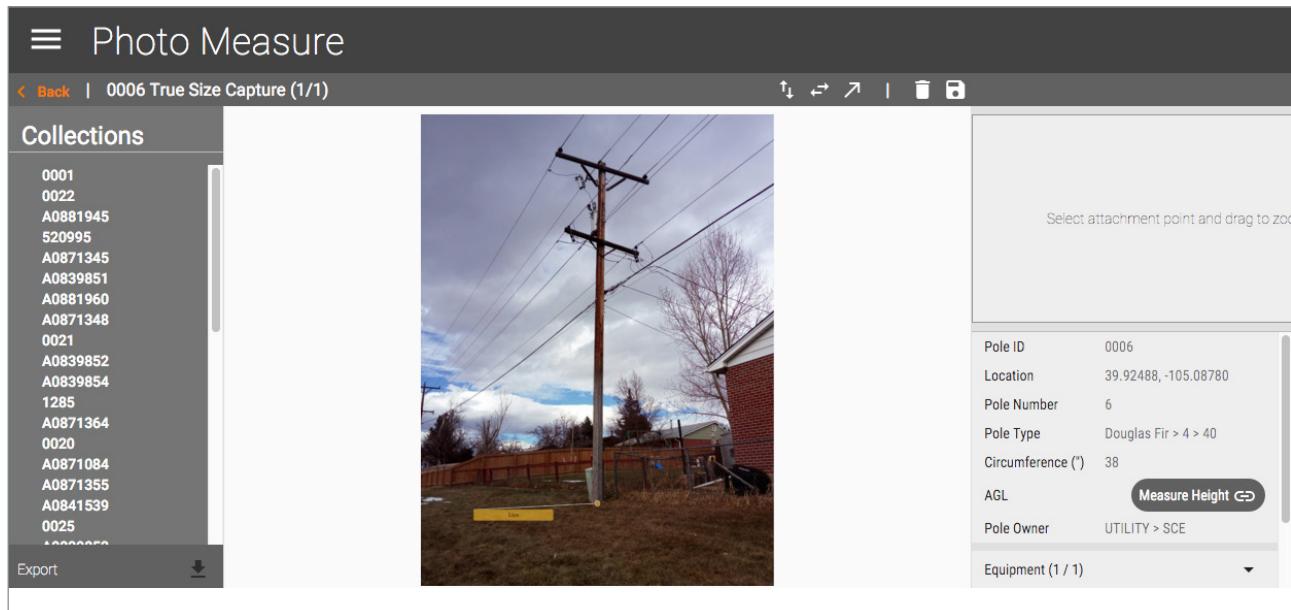
1. Set the base of the pole by clicking on the photo near the bottom of the pole.



2. Select the first orange link on the right.



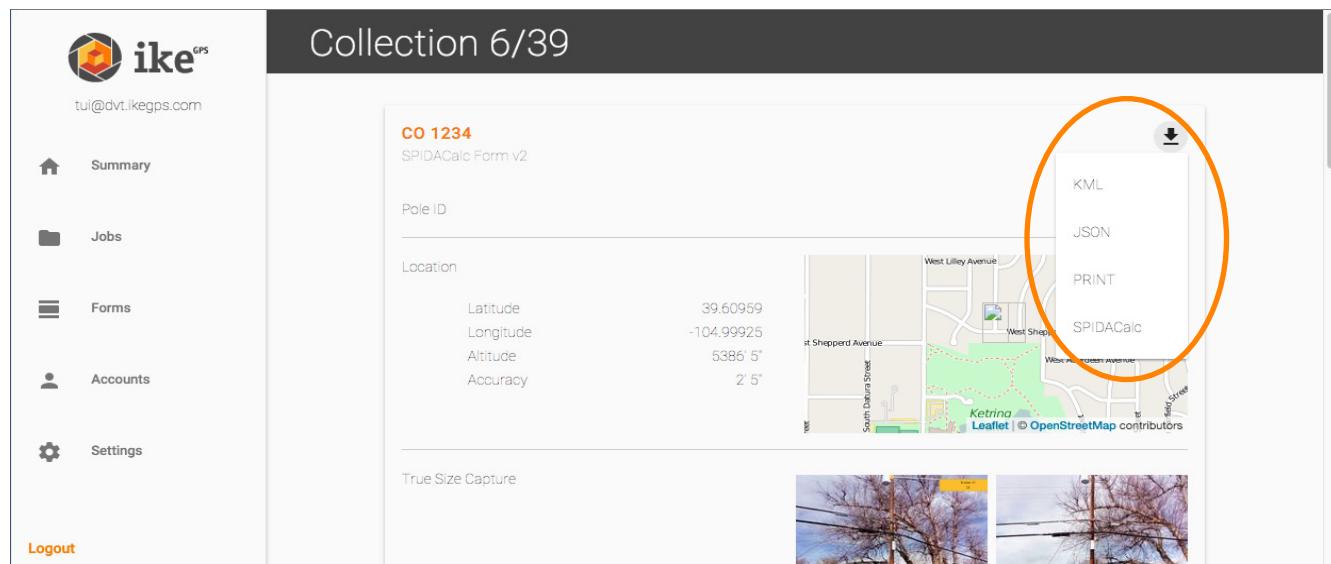
3. Click on the image to calculate the height for that field. Continue doing this for the other height fields in the form.



- For accurate placement, use the zoom window on the right for a closer view.
- To edit the name of the marker on photo, double click on it.
- To save your measurements, click [save icon].
- To go back to the collection screen, click [X icon]
- **To delete all measurements on the photo, click [trashcan icon].**

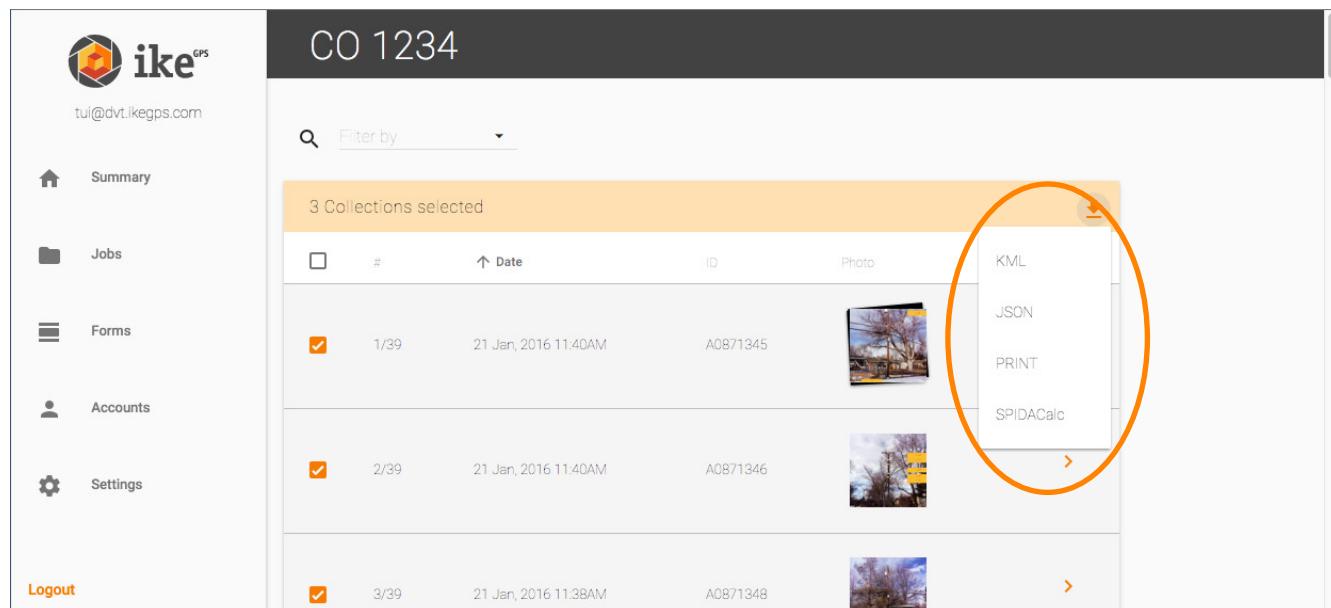
## exporting

An individual collection can be exported to KML, JSON, Print (PDF) or to SPIDACalc format.



The screenshot shows the IKE GPS web application interface. On the left is a sidebar with icons for Summary, Jobs, Forms, Accounts, Settings, and Logout. The main area is titled "Collection 6/39" and displays a map of a street area with a pole marked. To the right of the map is a vertical list of export options: KML, JSON, PRINT, and SPIDACalc. The "PRINT" option is highlighted with a red circle. Below the map are two small images of utility poles.

Multiple collections can also be exported, by checkmarking them.



The screenshot shows the IKE GPS web application interface. On the left is a sidebar with icons for Summary, Jobs, Forms, Accounts, Settings, and Logout. The main area is titled "CO 1234" and displays a list of three collections selected for export. The table columns are: #, Date, ID, and Photo. The "Date" column is sorted by Date. The "Photo" column shows small images of utility poles. To the right of the table is a vertical list of export options: KML, JSON, PRINT, and SPIDACalc. The "PRINT" option is highlighted with a red circle. The table shows three rows of data:

#	Date	ID	Photo
1/39	21 Jan, 2016 11:40AM	A0871345	
2/39	21 Jan, 2016 11:40AM	A0871346	
3/39	21 Jan, 2016 11:38AM	A0871348	