

Geomni Mobile

iOS Version 1.9.0

This document details the Geomni™ mobile application designed to capture and upload exterior and UAV images with corresponding metadata seamlessly into Geomni™'s processing system. Combined with our satellite and high-resolution baseline imagery and data, we provide business critical analytics to enhance several Verisk products including 360Value for Underwriters and Xactimate for claim damage estimates.

The app's primary features include:

- A tool to capture UAV (drone) and ground (cell phone/tablet) imagery (including metadata such as the geographic coordinates) of a structure's exterior which seamlessly upload to Geomni™
- An option to request Geomni™ Property and Geomni™ Roof
- The ability to view Geomni™ Property and Geomni™ Roof reports in PDF format
- The ability to view a model of the structure in 3D
- A map to view property location(s) in standard or satellite view
- Autonomous UAV flight planning
- XactAnalysis and Xactimate integration

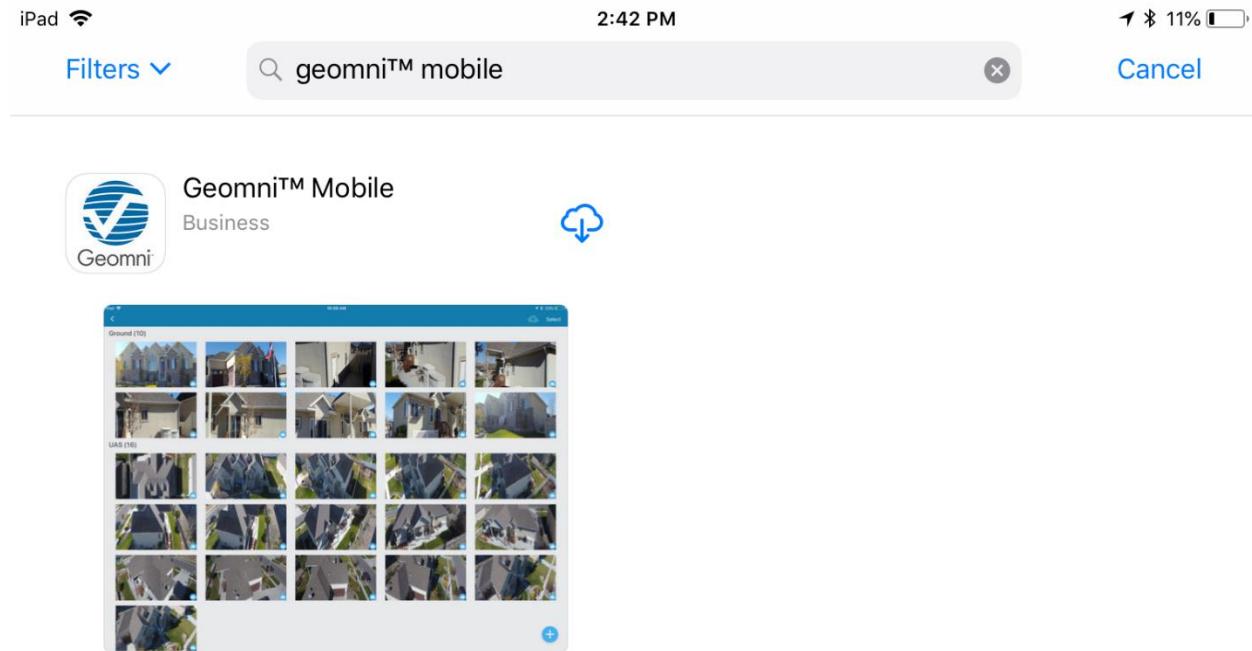
Contents

Using the App.....	3
Appendices.....	16
Appendix A. UAV Integration	16
Appendix B. Functions and Features	27
Appendix C. Xactware Assignments vs Non-Assignments.....	45
Appendix D. Linking a Project.....	47
Appendix E. Security.....	55
Index.....	56

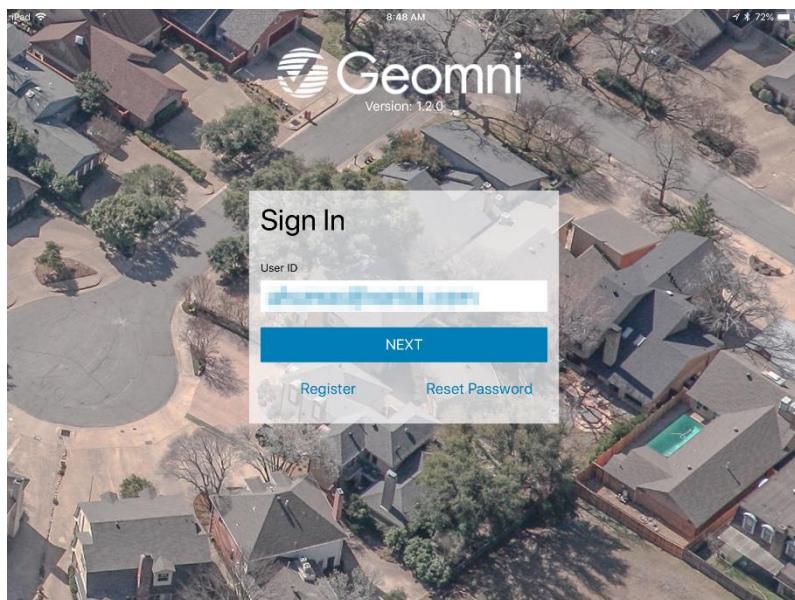
Using the App

Download and Login

To find the Geomni™ app for your apple device, go to your Apple App Store, and search for "Verisk" or "Geomni™ Mobile." Download and install this free app:



Once installed, log in with your unique Geomni™ User ID or Xactware ID. You can create a new user ID by tapping on the "Register" link. You can also reset your Geomni™ ID by clicking the link.

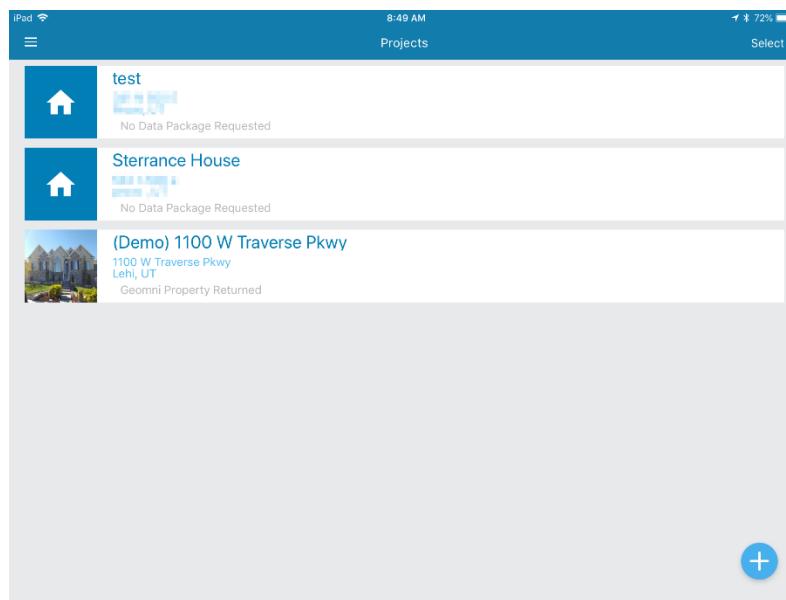


Geomni™ Mobile Release 1.9.0

For your convenience, the most recent user ID is stored on the login screen. When entering a password each character is displayed temporarily as you type.

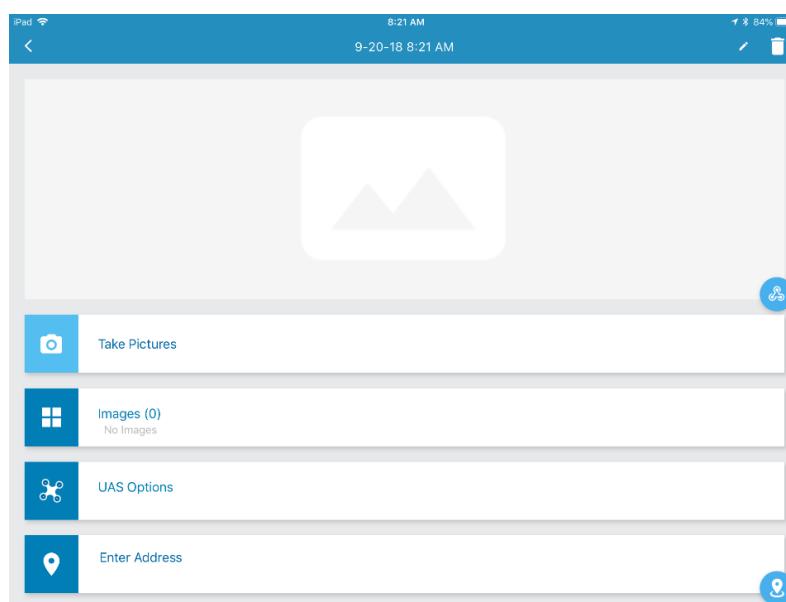
The mobile app requires an internet connection the first time you log in. Afterwards you may login offline (without an internet connection). However, some application features may still require internet connectivity (i.e., uploading images, requesting Geomni™ Roof and Geomni™ Property). **Using features in this app without a Wi-Fi connection will use a large portion of your data plan.**

Once you log in, the app displays the projects screen.

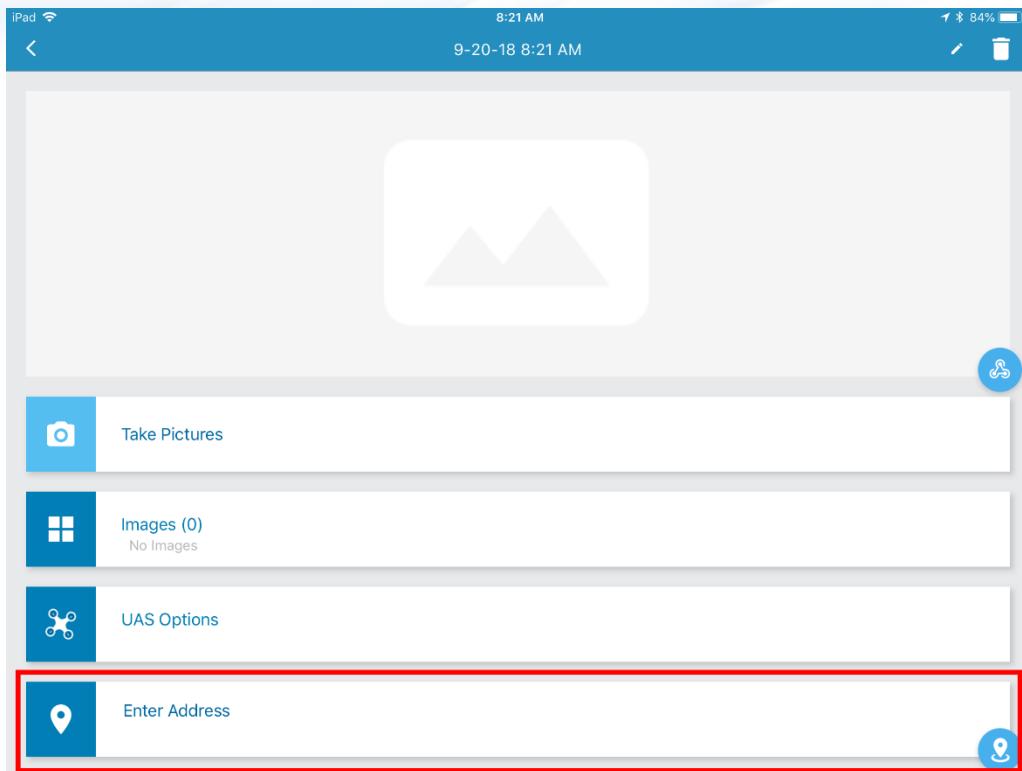


Starting a New Project

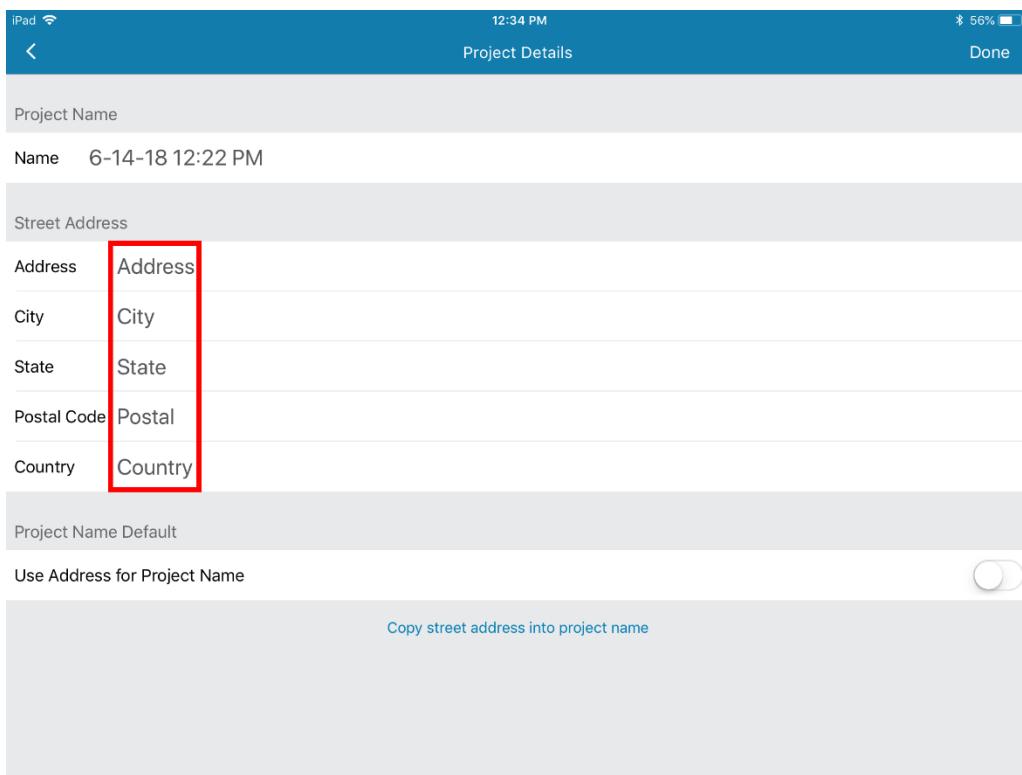
Start a new project by clicking the  button. This automatically opens the new project's page.



To add an address, click the “Enter Address” section at the bottom of the page.

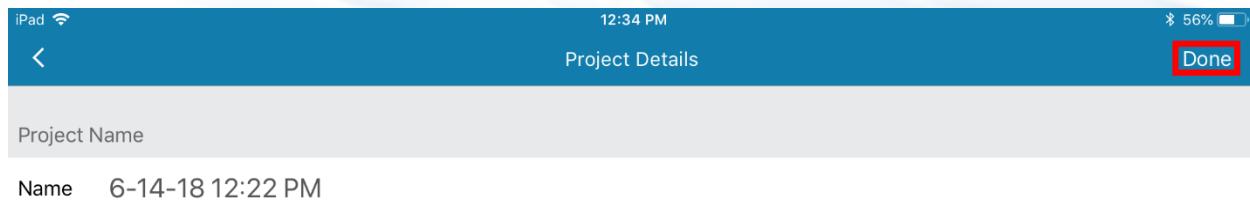


Click on each of the fields to fill out the address.



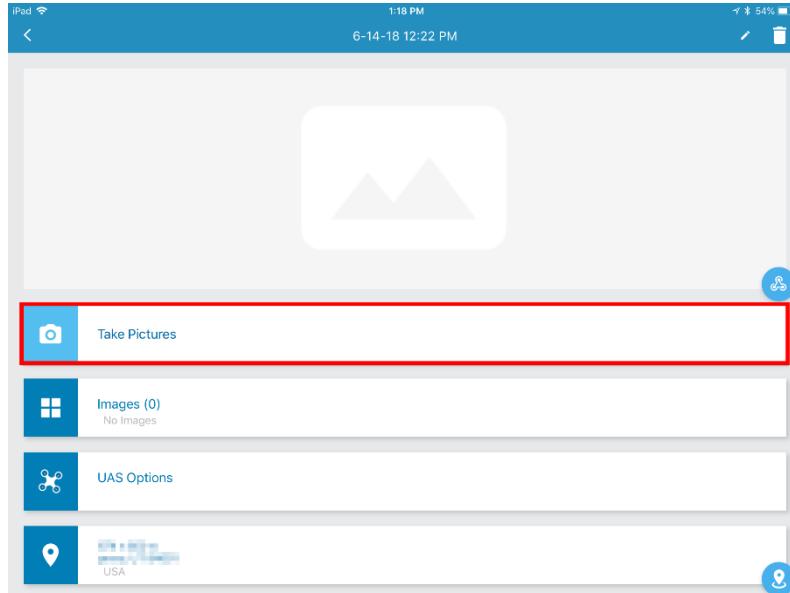
Geomni™ Mobile
Release 1.9.0

Press "Done" when completed.



Collecting Images

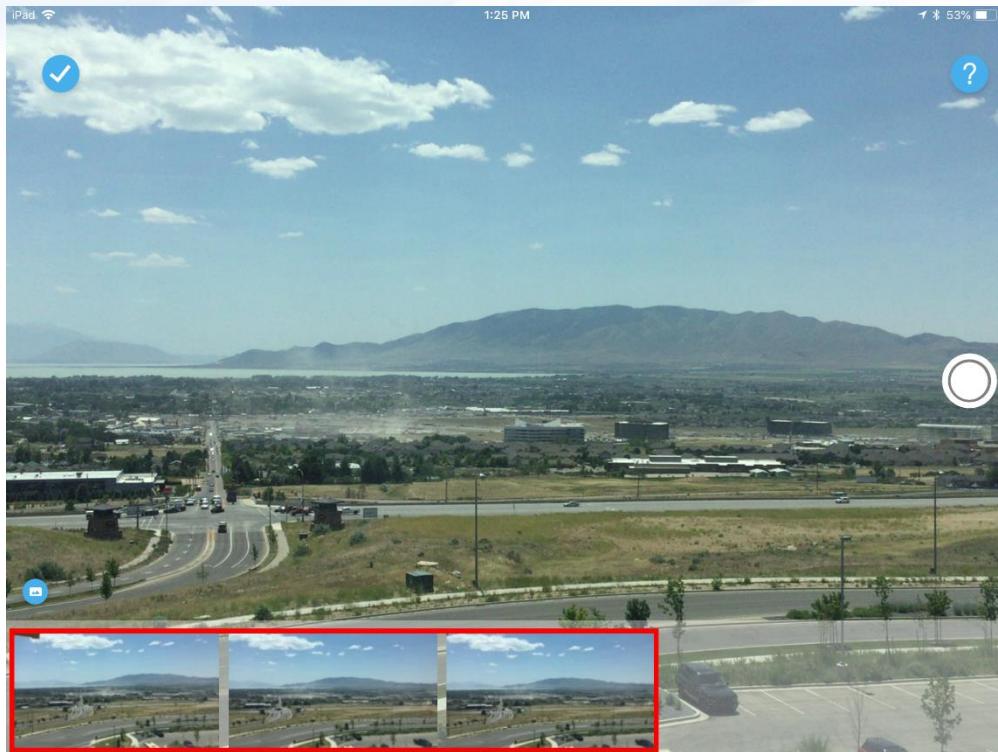
To collect images for your project, click the "Take Pictures" button on the project page.



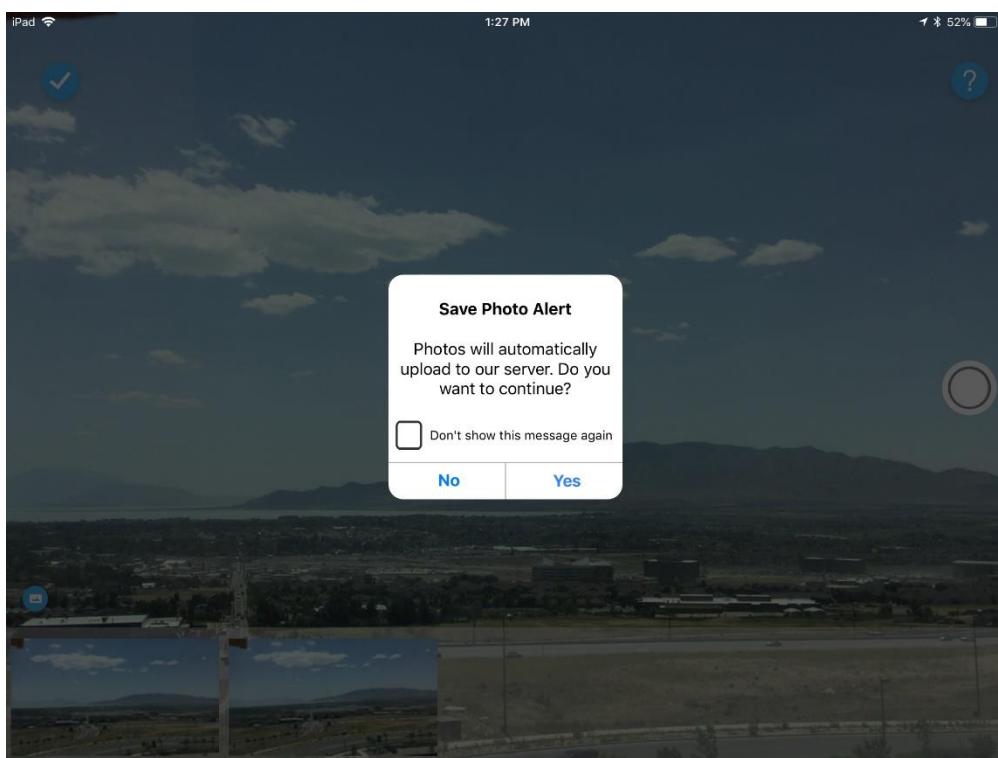
This opens the camera. The button in the right side will take the picture.



Pictures appear in the bottom-left corner for review.



When you are finished taking pictures, click the  icon in the upper-left corner. If you are connected to Wi-Fi, then a prompt will appear.

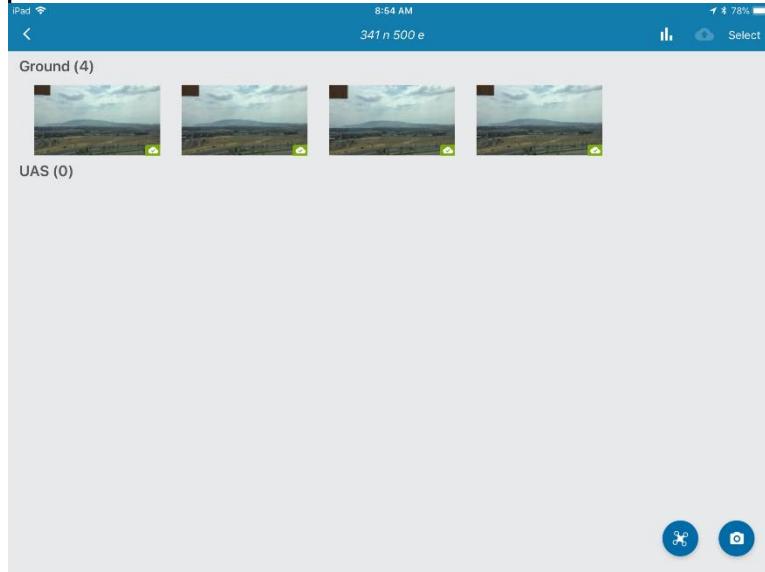


Geomni™ Mobile
Release 1.9.0

To proceed, select "Yes." The pictures will automatically upload to the cloud if connected to Wi-Fi or a cellular data network.

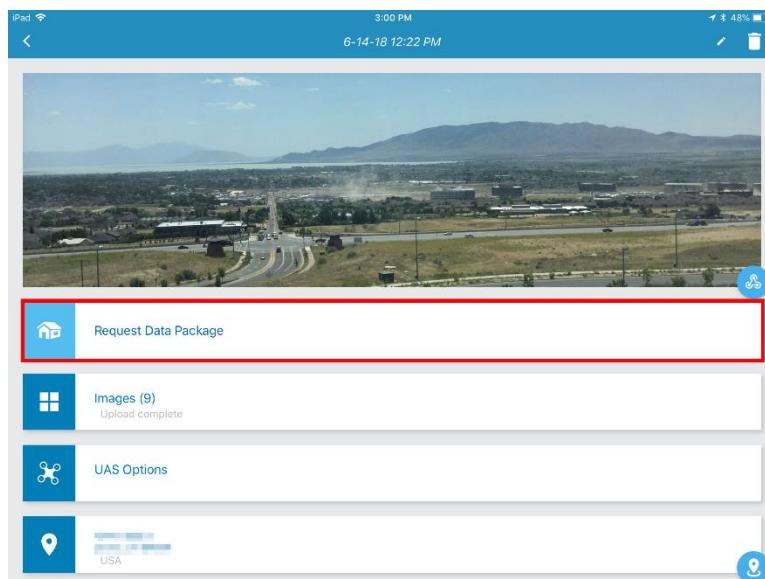
Note: If images do not begin to upload via a cellular data network, check the user settings to ensure the "Use Wi-Fi Only" switch is turned off. If left on, images will upload once a Wi-Fi connection is made.

Uploading images via a cellular data network will use a large portion of your data plan.

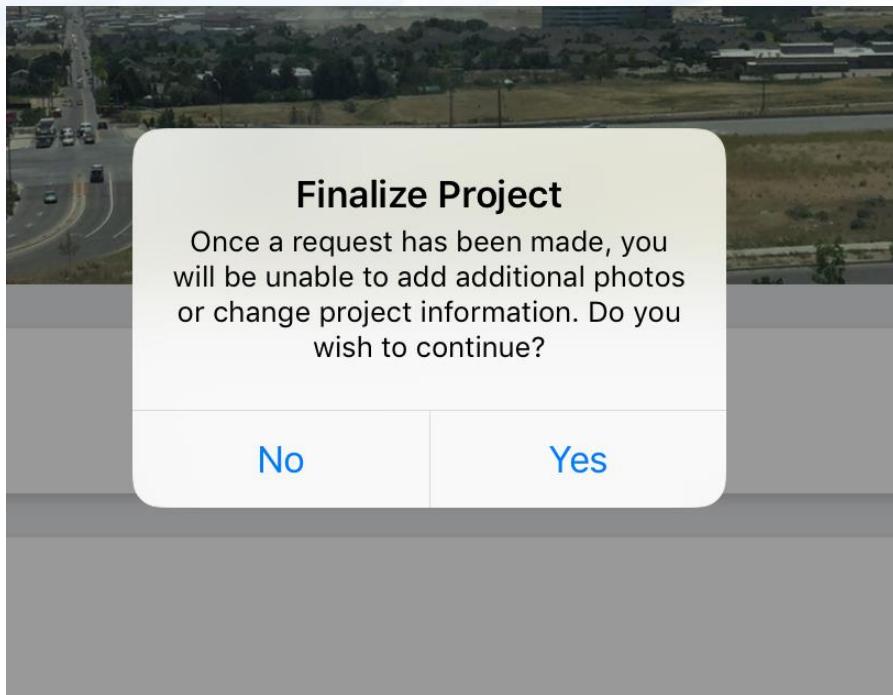


Ordering a Data Package

Once the images are uploaded to the cloud, they can be used in a Geomni™ data report. To request either a Geomni™ Property or Geomni™ Roof report, go to your project's page. With the images uploaded, the "Take Pictures" button is now the "Request Data Package" button. Press it to begin the ordering process.

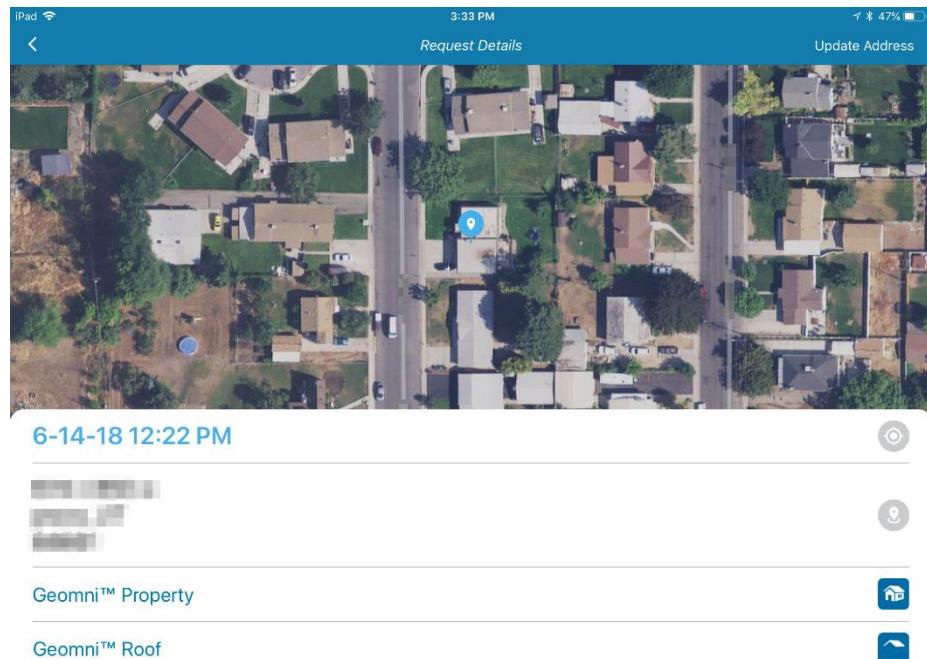


This warning appears.



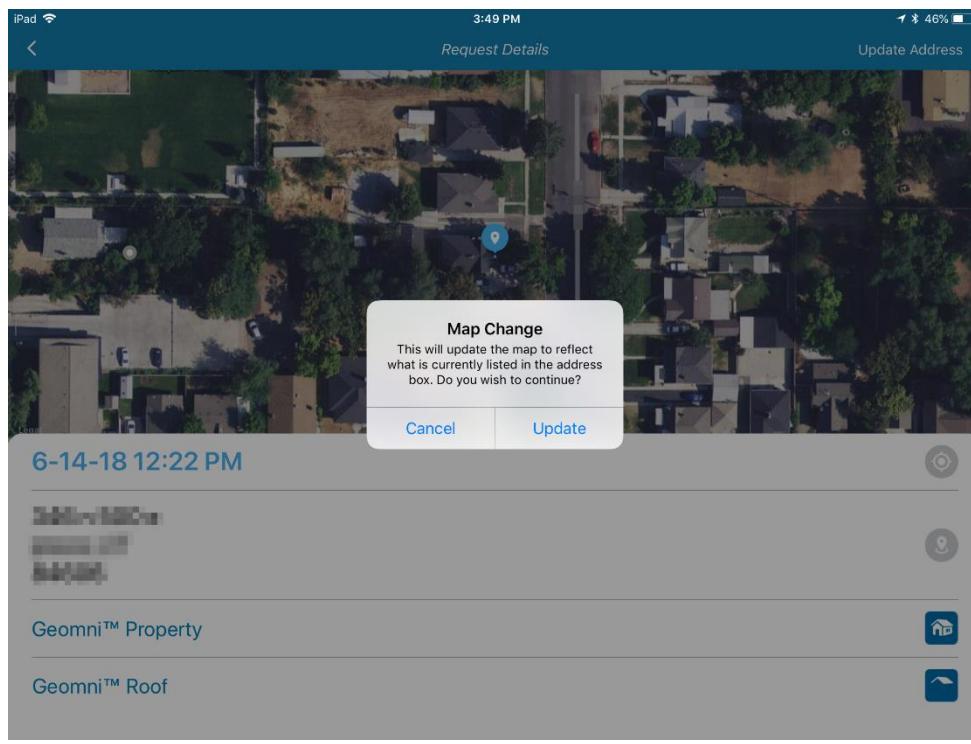
Select "Yes" to continue. This will open the Request Details page. Here you need to confirm the point on the map and the address provided are the same as the building in question.

Note: If the project was requested outside of the app (using Xactanalysis or Xactimate) The original data request will be updated with any images captured in the app. This screen will not appear.

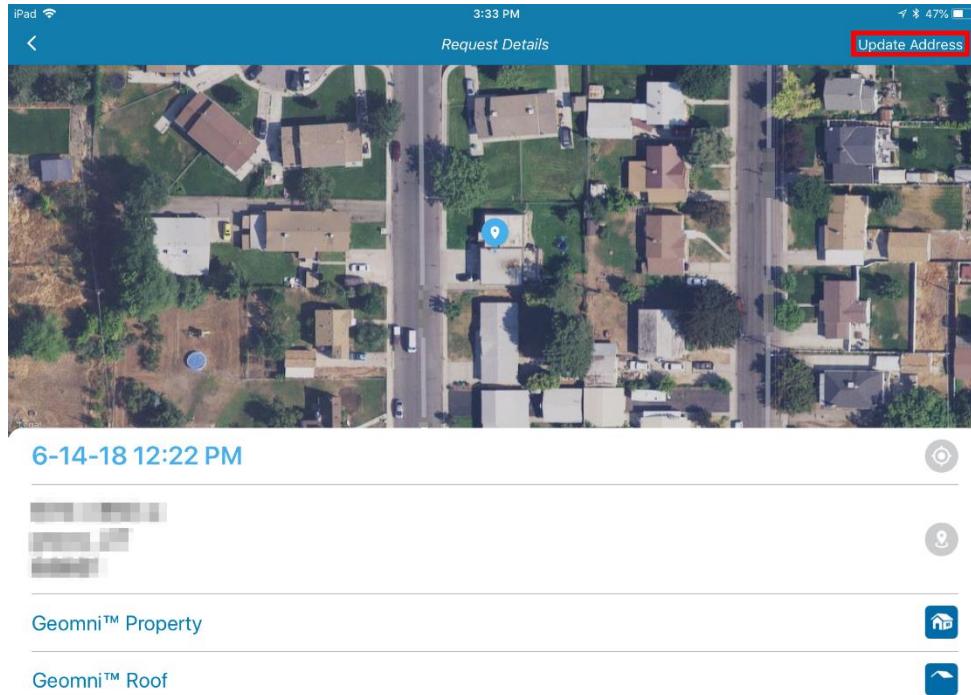


Geomni™ Mobile
Release 1.9.0

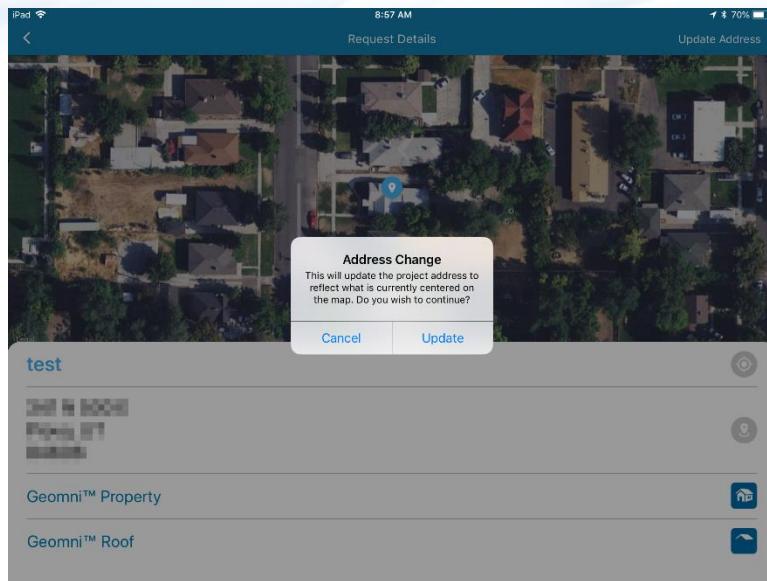
If the address is incorrect, tapping it will re-open the project details page. You may reenter the address here. Then click the  to re-center the map. A warning will appear. Press "Update" to continue.



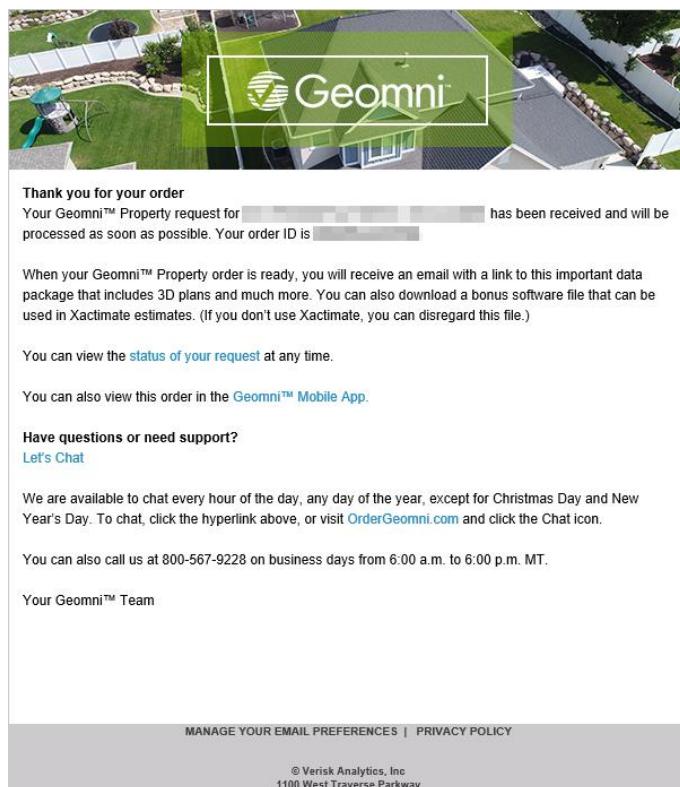
If the map is wrong, slide the map under the pin to the right location. Once you have the correct location, press the "Update Address" button. This may change the address.



A pop-up appears asking to confirm the change. Choose "Update" if the change is correct.

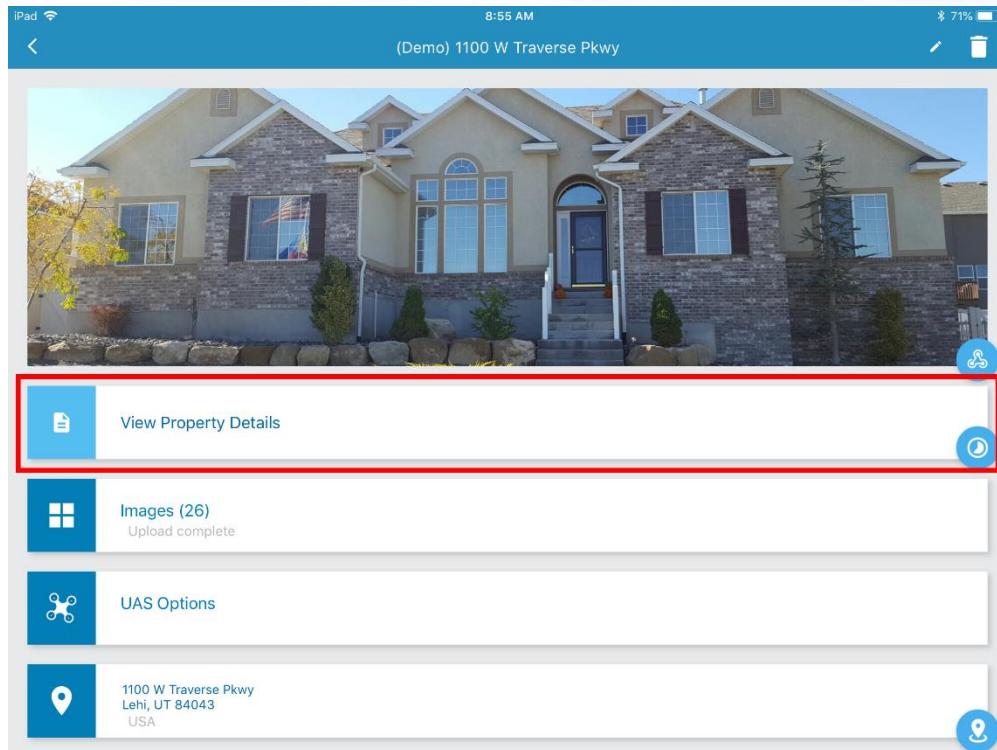


If everything looks correct, select either a Geomni™ Property or Geomni™ Roof data package by clicking their icons (Geomni™ Property contains all Geomni™ Roof data and more). The order is sent and you will receive a confirmation email shortly.

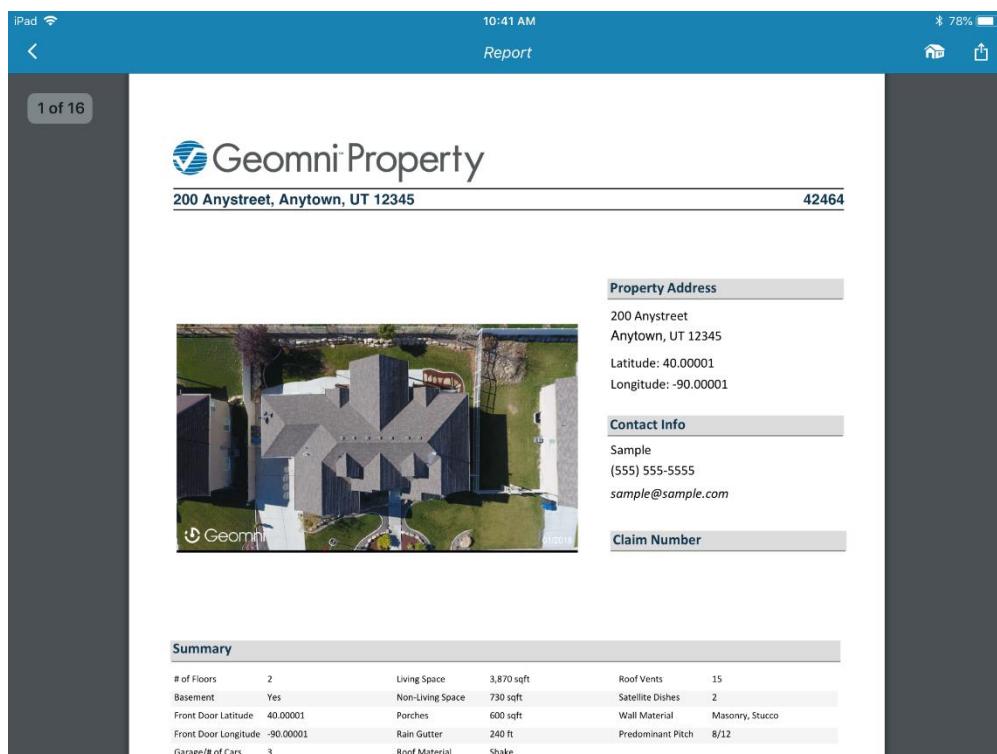


Geomni™ Mobile
Release 1.9.0

When the order is completed, the data will be downloaded to the app. To view it, open the project and select "View Property Details."

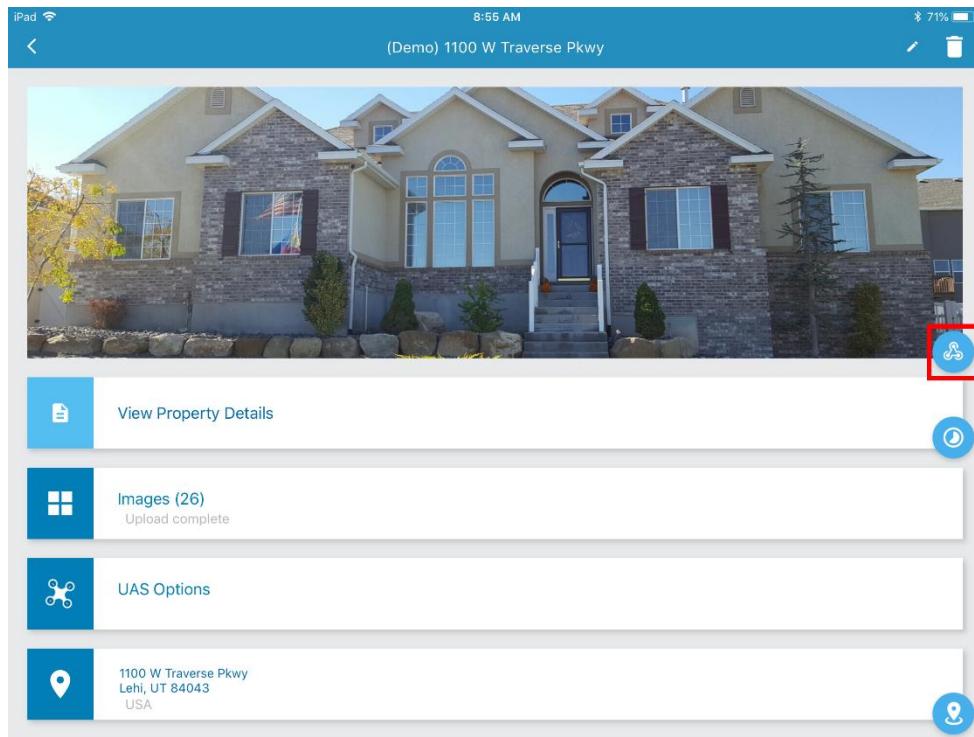


The pdf opens within the app.

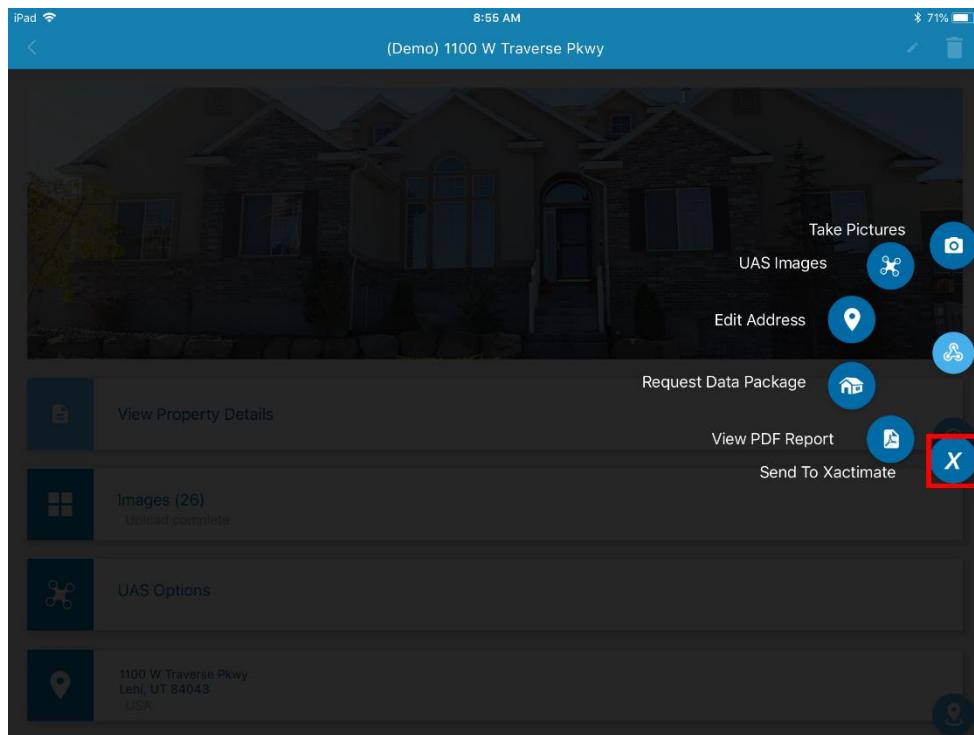


Sending to Xactimate

Once the data package is delivered, you may wish to send it to Xactimate to finish the estimate. To do so, open the project and press the “Action” button.

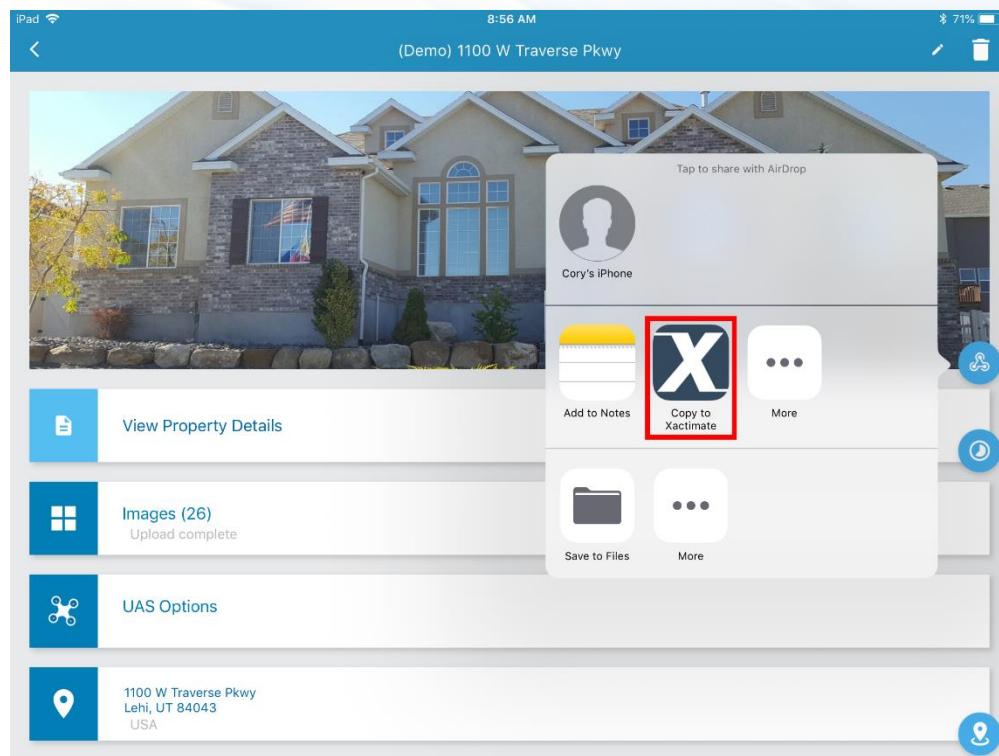


Select “Send to Xactimate.”

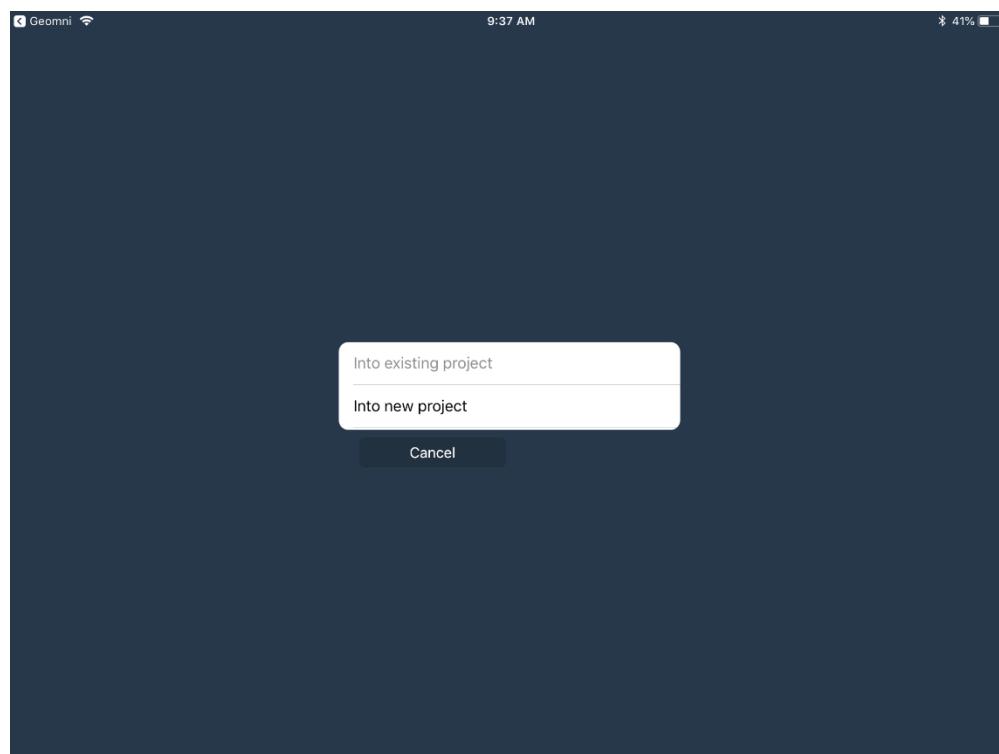


Geomni™ Mobile
Release 1.9.0

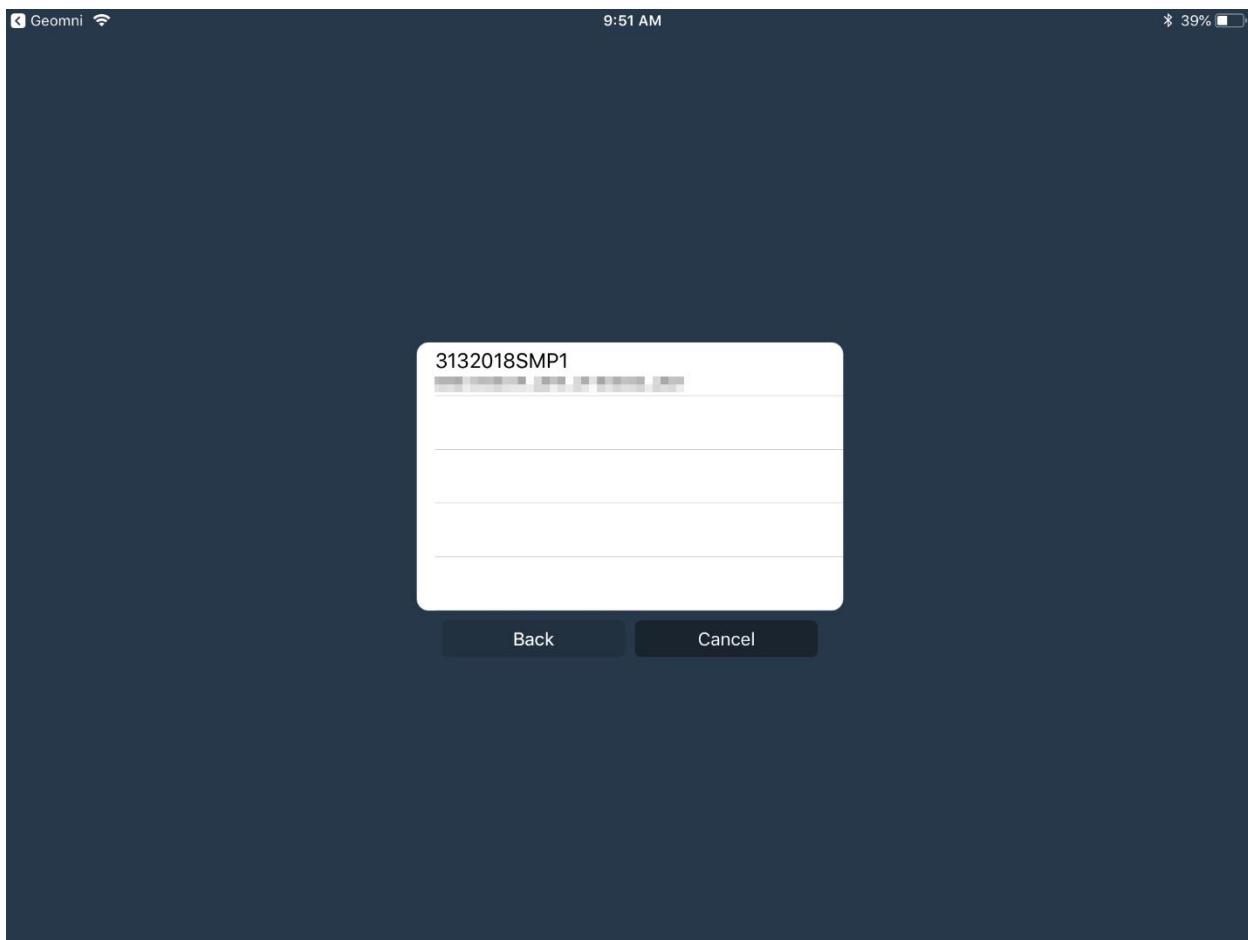
The export window pops up. Press the “Send to Xactimate” icon.



If the Xactimate app is installed, it will open. Sign in with the same user name and password as your Geomni account. Choose either “Into Existing Project” or “Into New Project.”



"Into New Project" will automatically create a new project for the report. If "Into Existing Project" is chosen, a prompt appears. Select the Geomni™ project to load the data into the app.



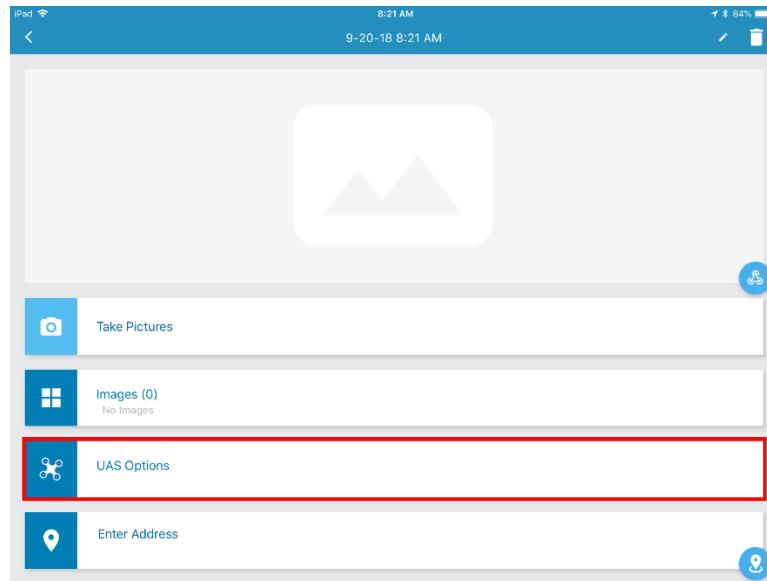
Appendices

Appendix A. UAV Integration

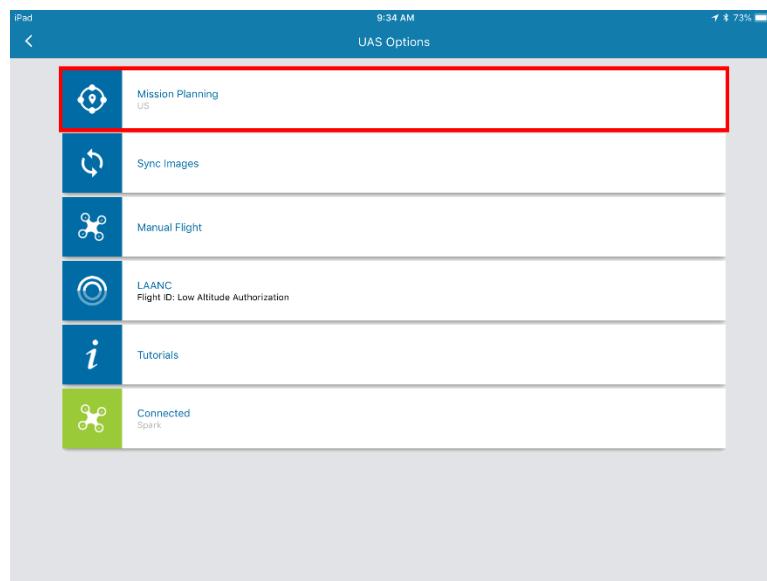
One of the Geomni™ app's features is to program a mission. A mission is a UAV (drone) flight over a property to capture images. These images may be uploaded to be used in a data package.

Planning a Mission

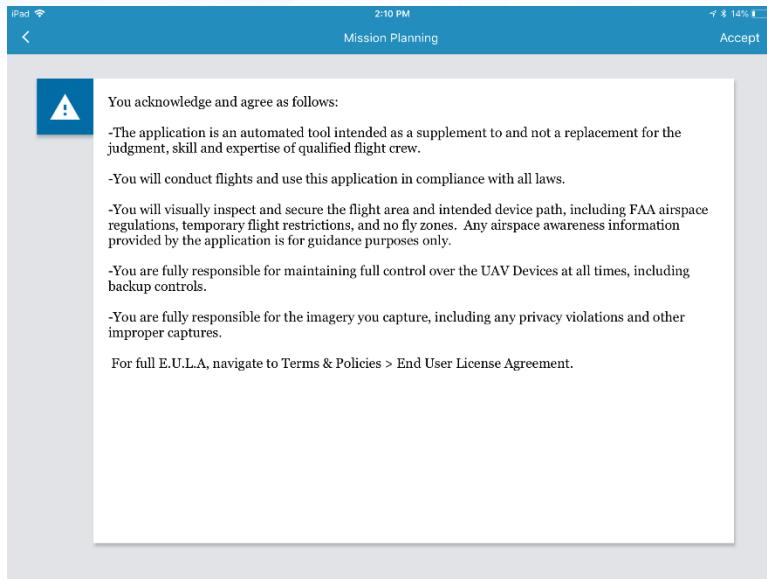
After turning on the UAV and connecting it to the mobile device using the Geomni™ mobile app, open the project for the property that is being pictured. Select "UAS Options."



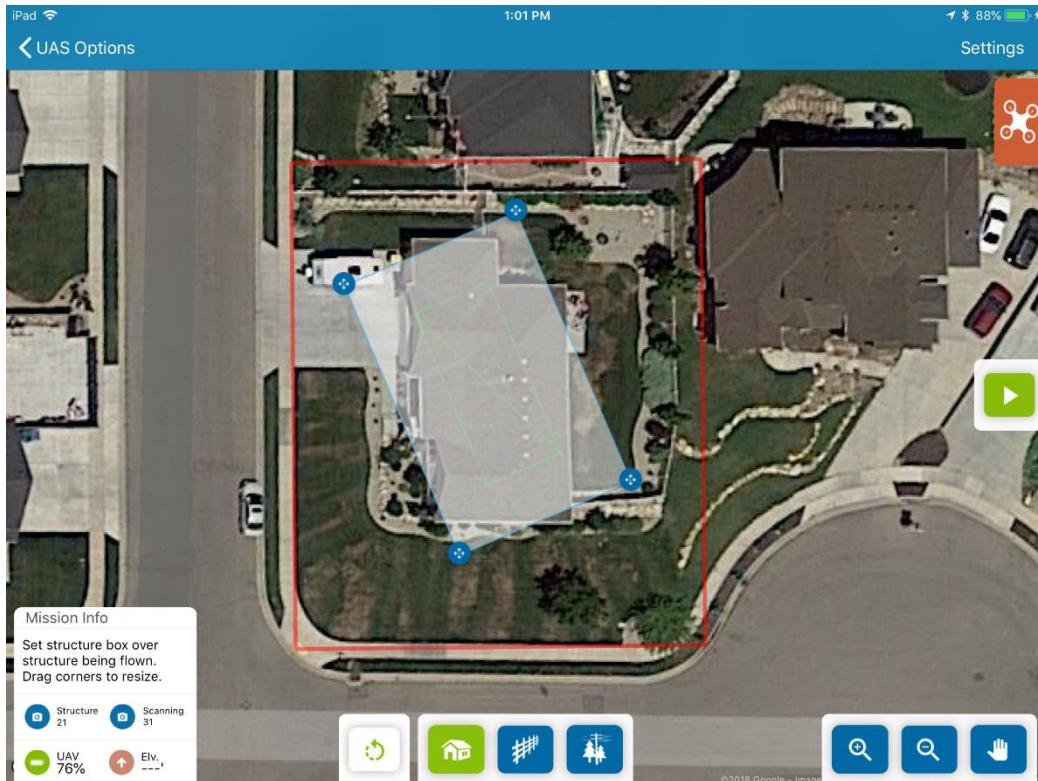
In the options, check the status bar on the bottom to make sure the UAV is connected. If it is green, select "Mission Planning" on the top to get started.



This will bring up a "Terms and Agreement" page that the user accepts responsibility for the UAV flight and any images taken. Press "Accept" to continue.



Mission planning opens a map with the structure box. This will define the area where the UAV takes close-up images. Make sure that the structure box is tight around the building. It can be moved with a finger or rotated and resized with two fingers. Selecting the icon will allow the structure box to be adjusted later if necessary.



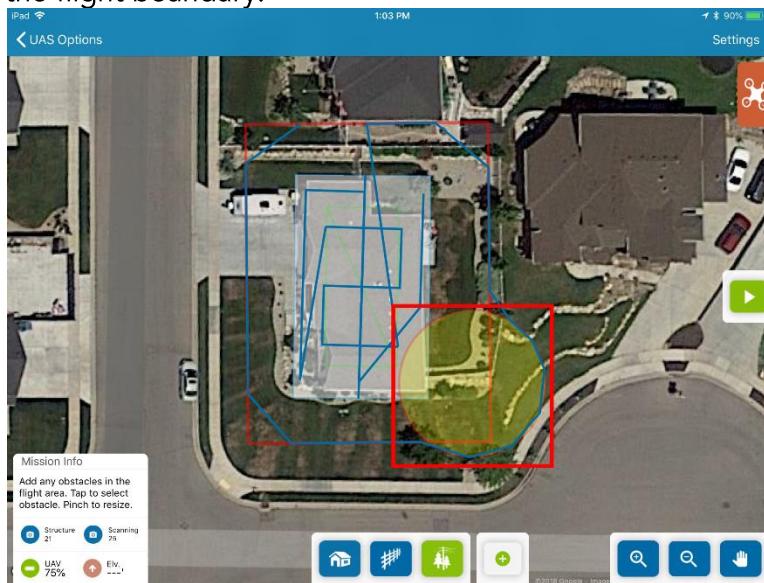
Geomni™ Mobile
Release 1.9.0

Once the structure box is properly set, select the  icon to adjust the flight boundaries. This will create a fixed area the drone will not leave. The flight boundaries should not be too close to the structure box so the UAV has enough space to fly and capture imagery. The flight boundaries are red. They are adjusted in the same manner as the structure box.

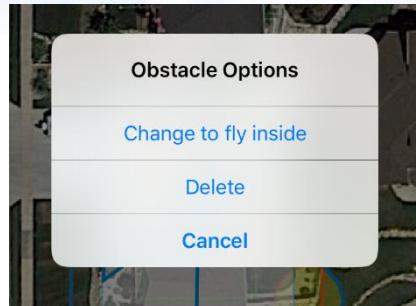


If there are any obstacles in the flight path, press the  icon. Next to the  icon, the  icon appears. Press it to add an obstacle. The user can move the obstacle with a finger, or resize it with two fingers. Once the obstacle is properly placed, the flight path—lined in blue—will alter around the obstacle. If the obstacle must be moved after it is placed, click on the  icon and tap the obstacle to select it. Press and hold to move it.

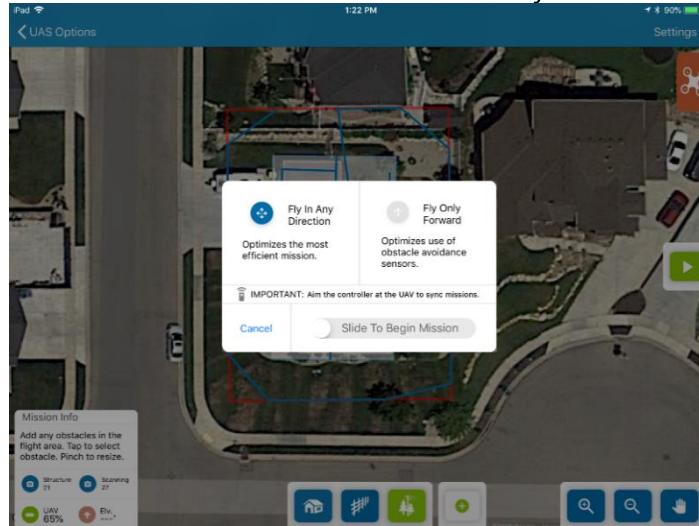
Note: Placing obstacles on the flight path boundaries can cause flight paths outside of the flight boundary.



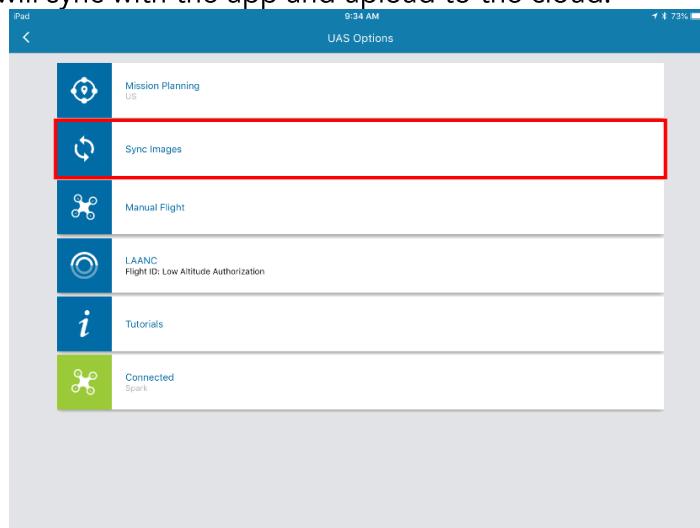
To change the flight pattern around the obstacle or to delete the obstacle, press and hold the obstacle. The menu appears.



If everything looks good to go and the drone icon in the upper right corner is green or yellow, press the  icon to open the preflight menu. The user may choose how to fly, either in any direction or only forward. Once everything for the flight is prepared, slide the button to begin the mission. Make sure to aim the controller at the UAV to sync the mission.

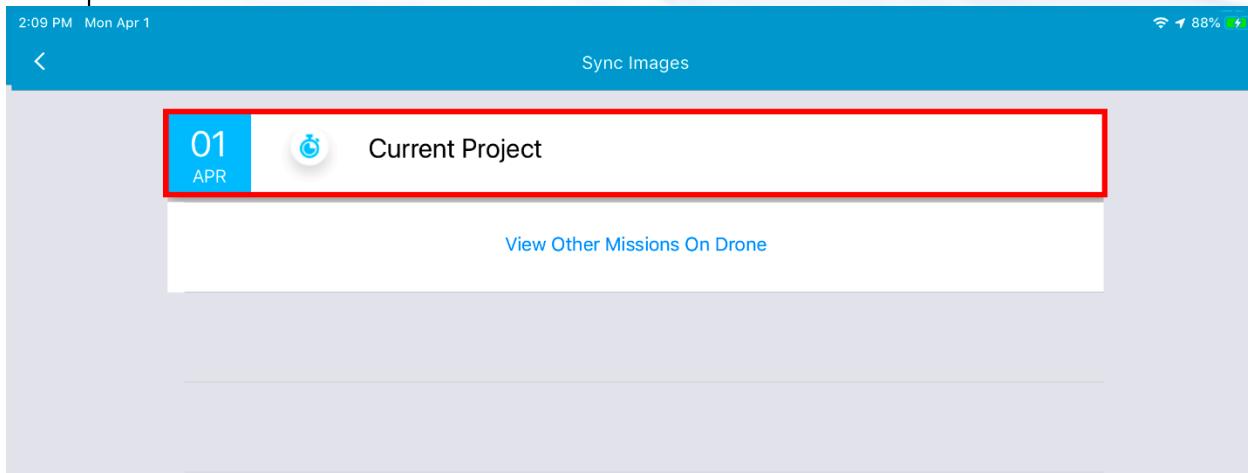


Once the mission is completed, open the "UAS Options" and select "Sync Images" from the menu. The images will sync with the app and upload to the cloud.



Geomni™ Mobile
Release 1.9.0

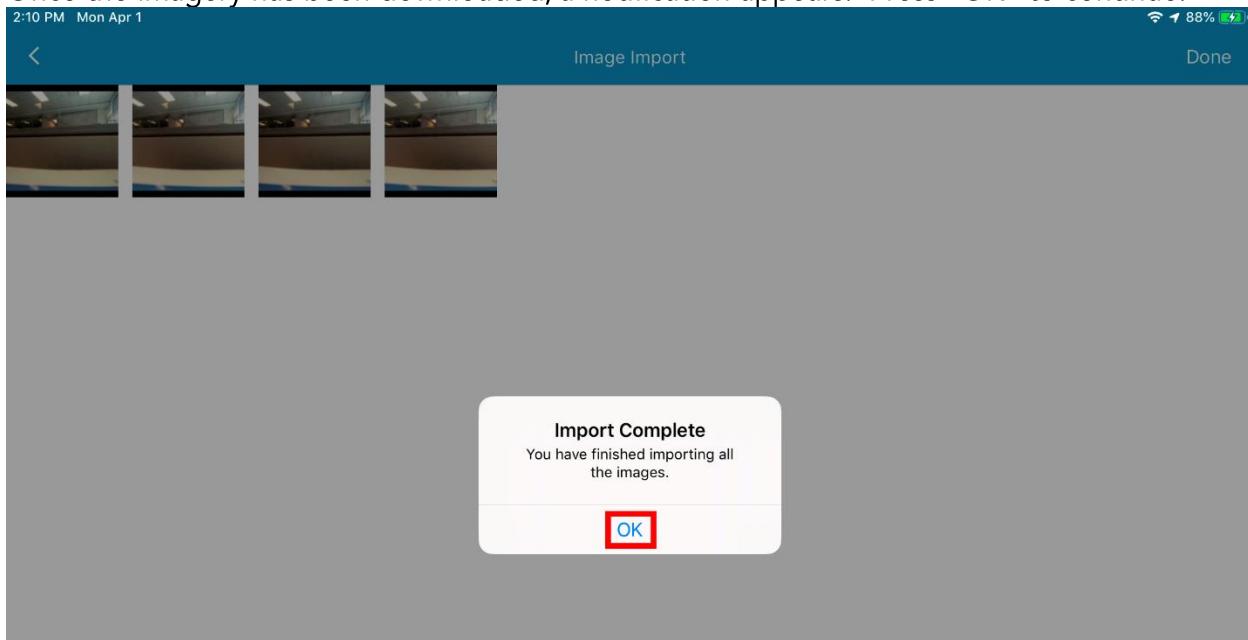
Select the mission with the correct imagery. If it is a recent flight, then it will be the flight on the top.



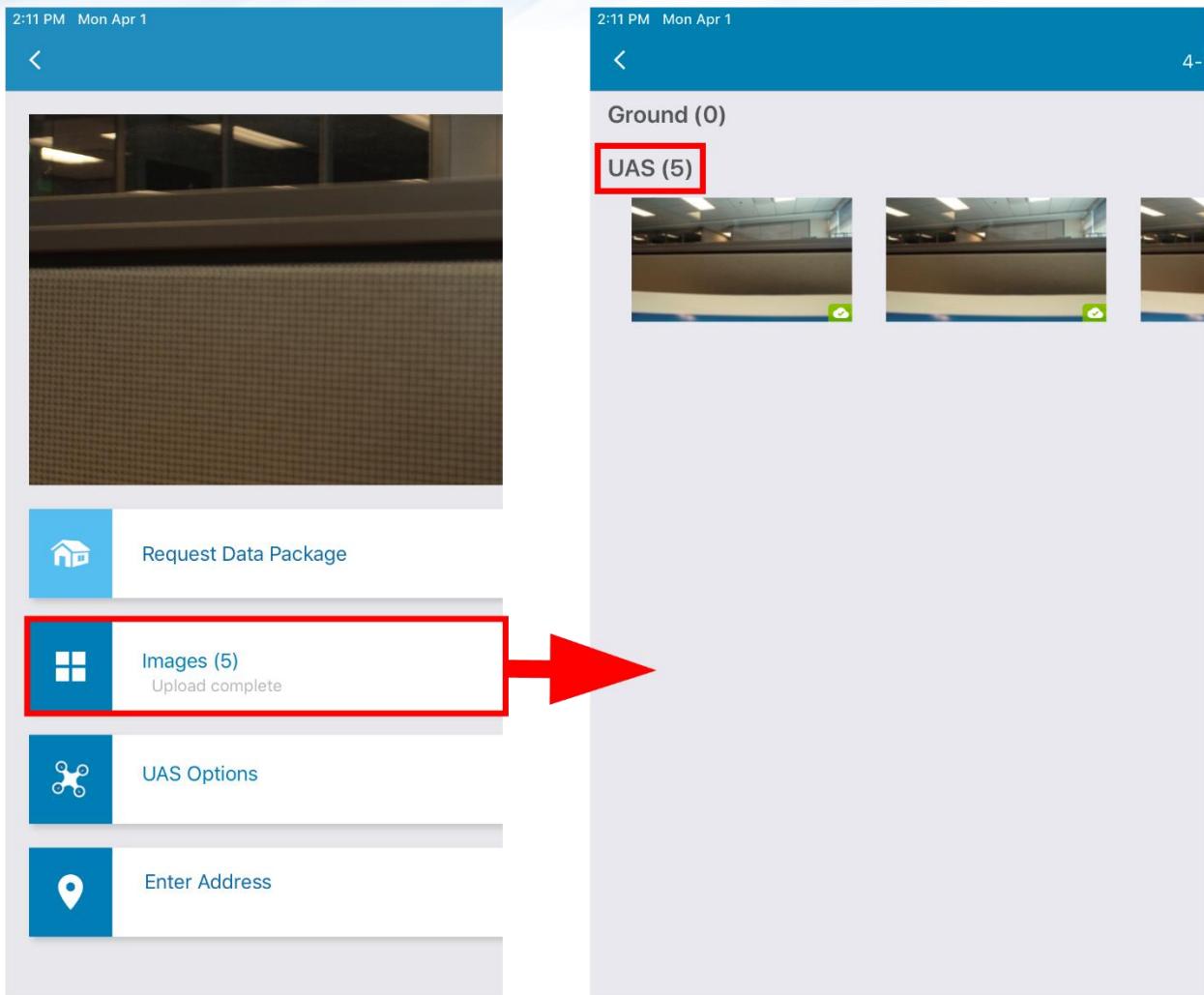
Press "Import" to begin downloading the imagery. This may take some time. Make sure the drone is sufficiently powered.



Once the imagery has been downloaded, a notification appears. Press "OK" to continue.



Once the imagery has been downloaded, it can be viewed in the “Images” section under “UAS.”

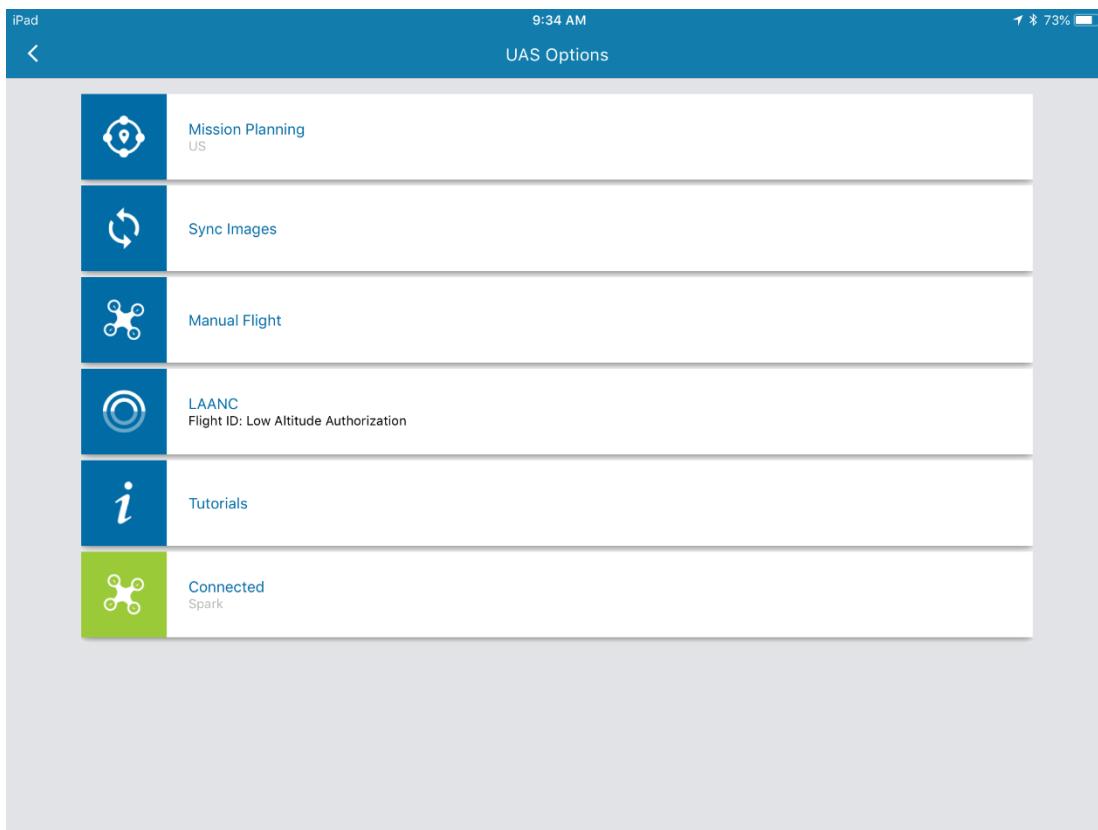


UAV Settings and Features

Most of the settings below are found within the mission planning section. While the default settings will work for most flights, these settings help the user create the best flight possible.

UAS Options

This is the UAS Options Menu:



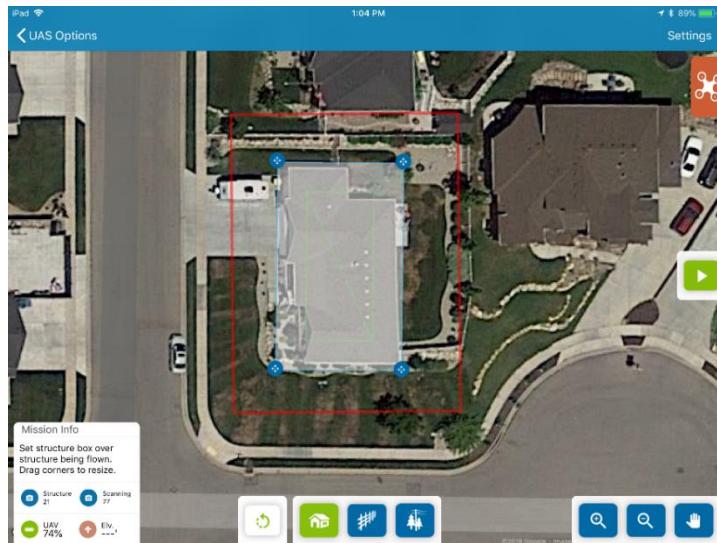
The options given are:

- Mission Planning. This opens a map to create a pre-programmed flight.
- Sync Images. Once a flight is completed, this will allow the images from the drone to be synced with the app.
- Manual Flight. If specific angles or shots are needed, the user may choose to perform a manual flight.
- LAANC. This links to AirMap so the user may request temporary authorization in controlled airspace.
- Tutorials. This opens a tutorial YouTube channel with videos on using the app and creating a programmed flight.
- UAV status. This section displays if the UAV is connected or disconnected. If it is connected, the icon will be green. If the UAV is disconnected, the icon will be red.

In the upper-left corner, there is a < for a back button.

Mission Planning

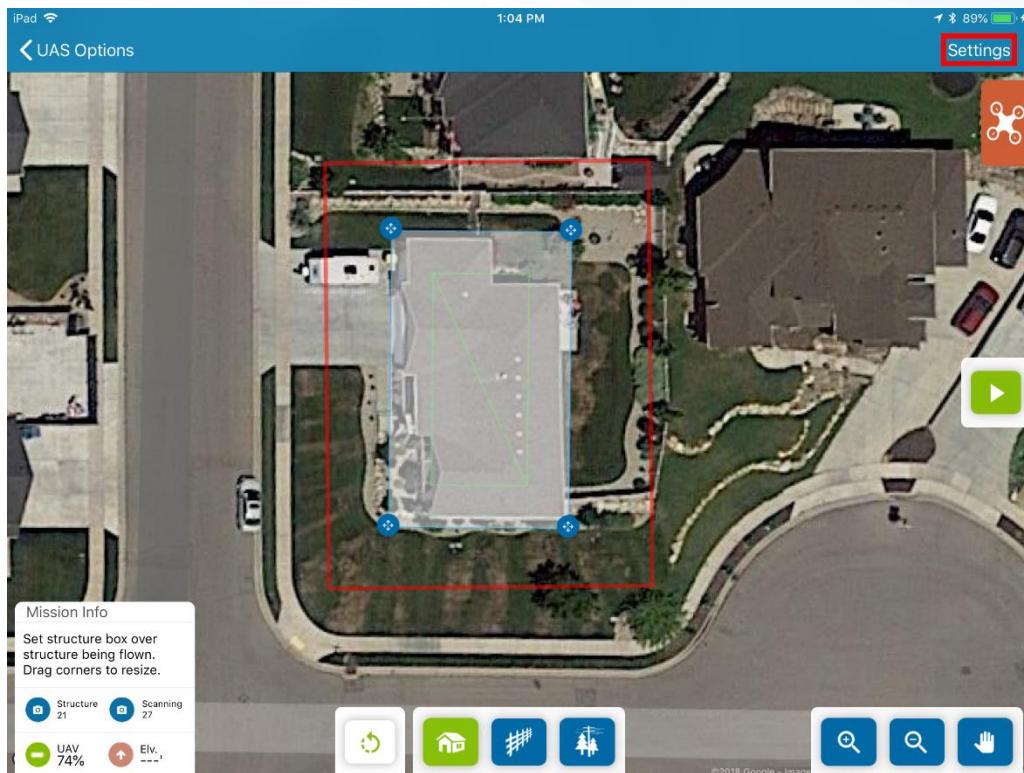
Selecting "Mission Planning" from the UAS Options opens a map to plan a preprogrammed flight.



- <UAS Options. This takes the user back to the previous menu.
- Settings. Mission Settings is a menu for specific mission settings.
- Drone Status opens a tab that displays the status of the drone. Color indicates the status of the drone. Red or orange indicate errors important enough that the UAV will not fly. Yellow is a warning, but the UAV may still fly. Green means that there are no errors and the UAV is good to fly.
- Mission Start opens a small menu for final mission settings.
- Mission Info. This shows some helpful tips in preparing your mission.
- Picture Icon displays how many pictures of structure and scanning will be taken.
- This shows how much of the UAV battery remains.
- The elevation icon shows the UAV elevation relative to the takeoff location.
- Tapping this icon resets the structure box.
- Selecting this icon allows the user to manipulate the size and placing of the structure box.
- Choose this icon to alter the UAV flight boundaries
- Add or change obstacles in the flight path.
- and Zoom in or out of the map.
- Press this icon to pan on the map.

Mission Settings

By pressing "Settings," the user opens the Mission Settings.

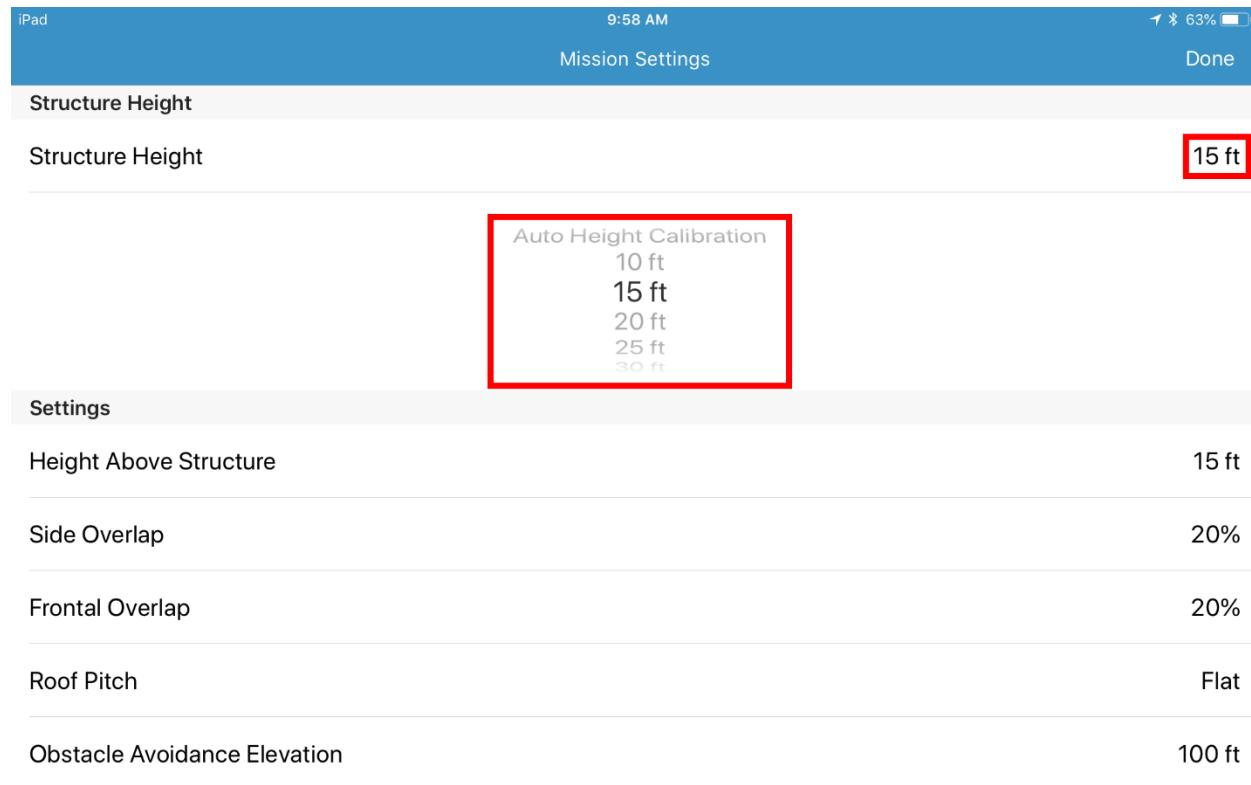


The mission settings are used to help create a smooth flight and capture the best images.

Mission Settings		Done
Structure Height	30 ft	
Height Above Structure	15 ft	
Side Overlap	20%	
Frontal Overlap	20%	
Roof Pitch	Flat	
Obstacle Avoidance Elevation	100 ft	

Structure Height

This setting establishes the height of the building so the UAS knows how high to fly. Structure Height defaults to Auto Height Calibration. To manually set the structure height, press the bar and use the wheel to change the height. Available heights are listed at five-foot intervals.



Settings

Selecting each of these settings opens a wheel to change the value of the setting.



Rotate the wheel until the desired setting is in black. That new setting will be displayed in the right corner.



Height Above Structure

This sets how high above the structure the UAV flies during the scanning mission.

Side Overlap and Frontal Overlap

This determines the percentage of overlap on the front and sides of the pictures.

Roof Pitch

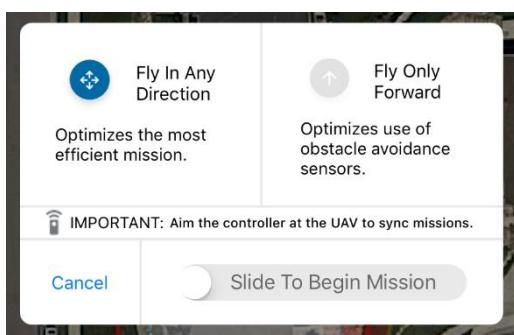
This manually determines the pitch of the roof.

Obstacle Avoidance Elevation

This sets the height that the UAV will transition to during different parts of the mission.

Mission Start

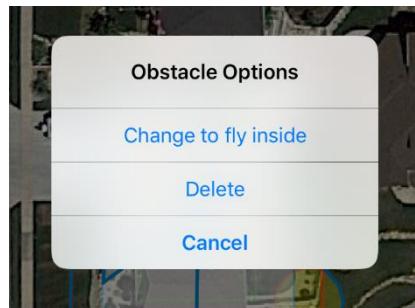
Pressing the  icon opens the mission start menu.



The first two choices are the manner of flight. Choosing to fly in any direction creates the most efficient flight path available. Choosing to fly only forward improves the performance of the obstacle avoidance sensors. The user may select cancel to close this menu and adjust the flight parameters. If everything is good to go, slide the button to begin uploading the mission to the UAV.

Obstacle Menu

Each obstacle may have its own settings chosen. To access these settings, first press the  icon to manipulate obstacles. Select the desired obstacle by tapping it, then press and hold it. The menu will appear.

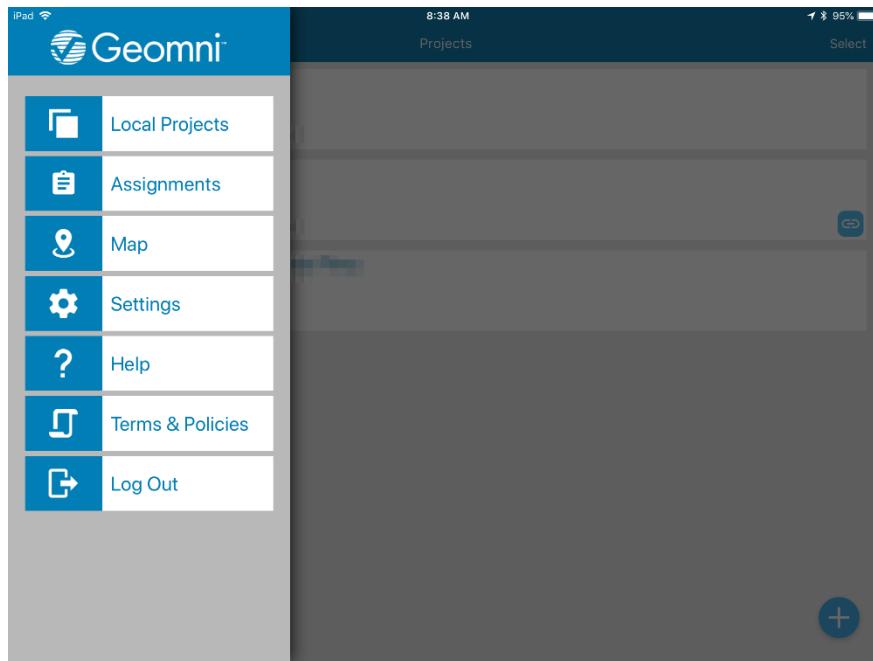


The first option is to change the UAV flight path around the obstacle. This will either be to fly inside around the obstacle (towards the center of the structure box) or outside around the obstacle (away from the center of the flight path). The second option is to delete the obstacle. Pressing "Cancel" closes the menu.

Appendix B. Functions and Features

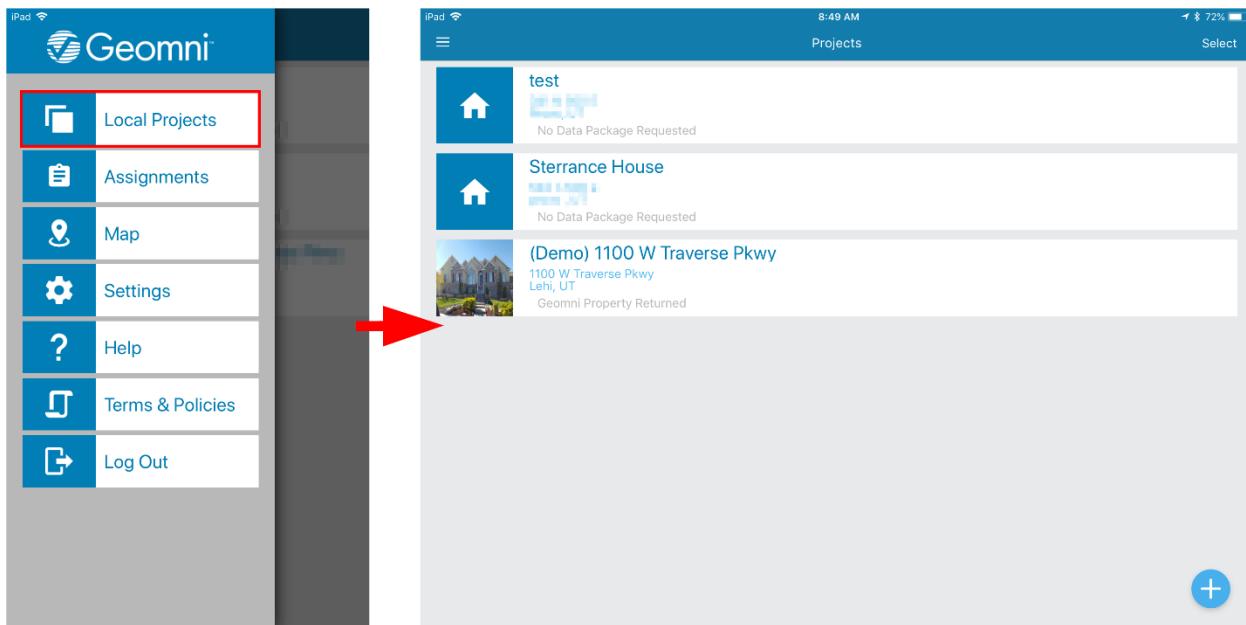
Menu Functions

The Menu is a side bar. Press  in the upper left-hand corner to open this menu.



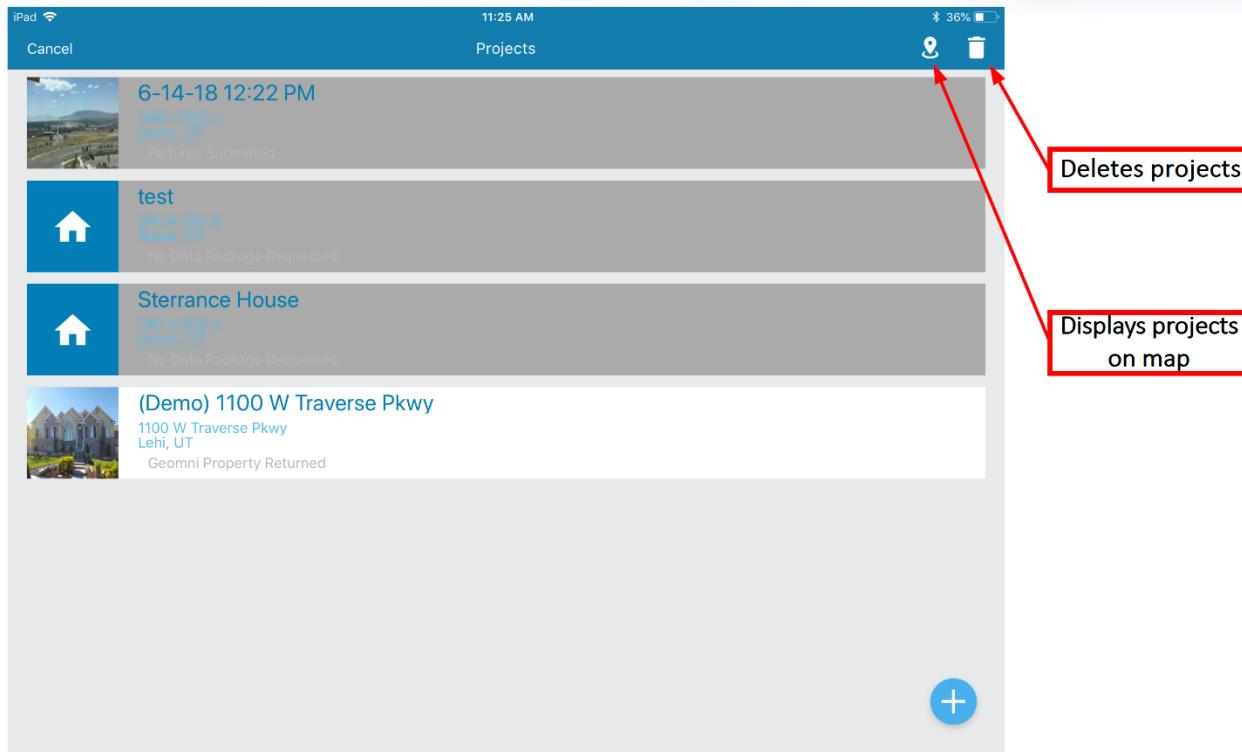
Local Projects

Tap “Local Projects” to view the projects stored on the phone.

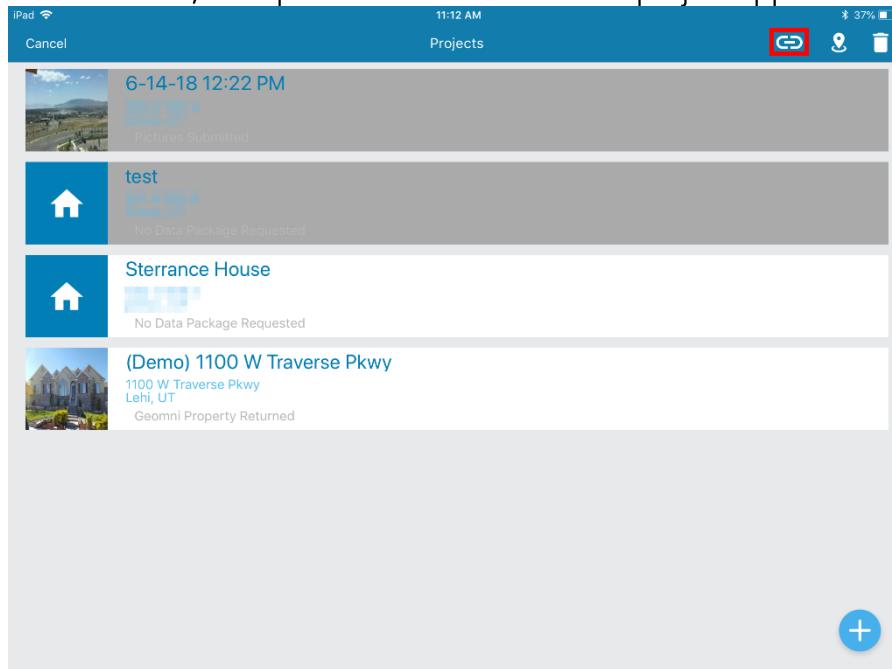


Geomni™ Mobile
Release 1.9.0

The “Select” option lets users select single or multiple projects to delete or display in the map.



If two projects are selected, the option to link them into one project appears.



A search field above the projects helps the user quickly search for projects by Project Name. Search is not case-sensitive. If the search field does not appear, swipe down. The bar will appear.

The project list displays each project like this:



1. A thumbnail of the first picture taken. If no picture is taken, then a generic icon is used instead.
2. The project's name
3. The address of the property
4. The most recent status of the project
 - The status will be one of the following:
 - No Geomni™ Data Requested
 - Pictures Submitted
 - Geomni™ Roof Requested
 - Geomni™ Roof Returned
 - Geomni™ Property Requested
 - Geomni™ Property Returned
 - Data Downloading
 - Needs Address Verification
 - Closed

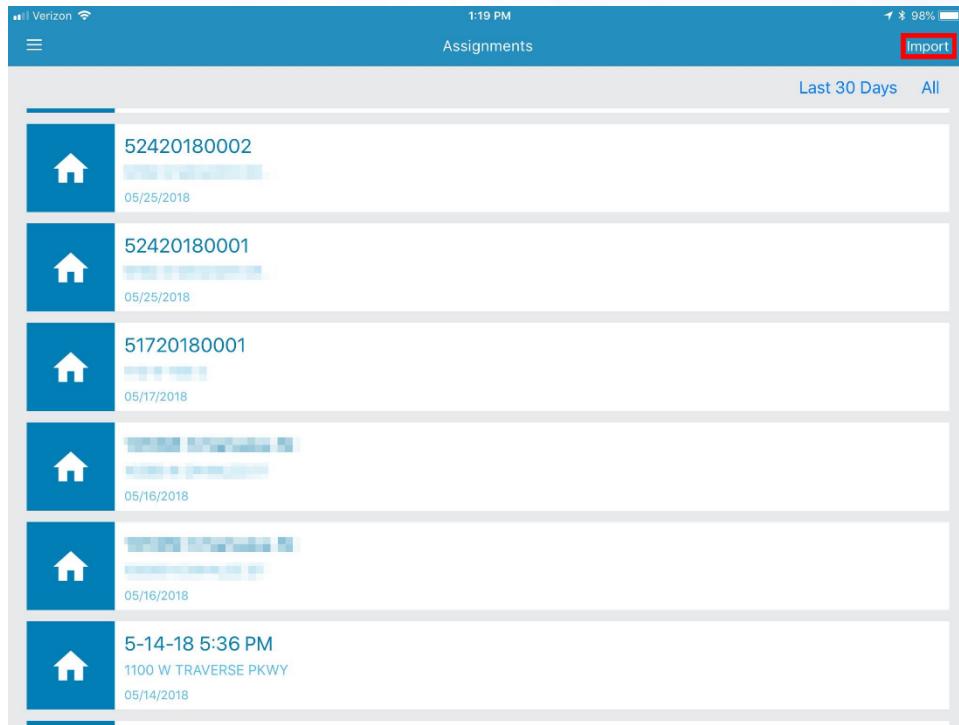
Assignments

Here is listed all the assignments given through XactAnalysis. The user may choose to show assignments from the last 30 days or all the assignments given to the user.

ID	Date
52420180002	05/25/2018
52420180001	05/25/2018
51720180001	05/17/2018
	05/16/2018
	05/16/2018
5-14-18 5:36 PM	1100 W TRAVERSE PKWY
	05/14/2018

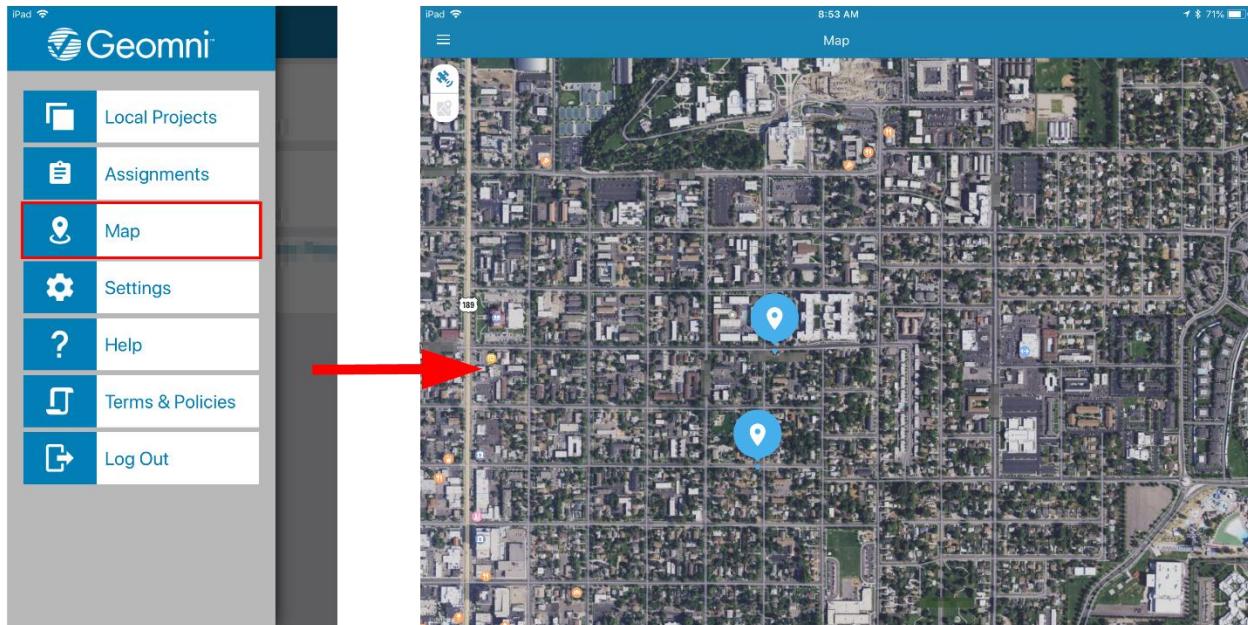
Geomni™ Mobile
Release 1.9.0

The user may select one assignment or more and press “Import” to download them as projects.

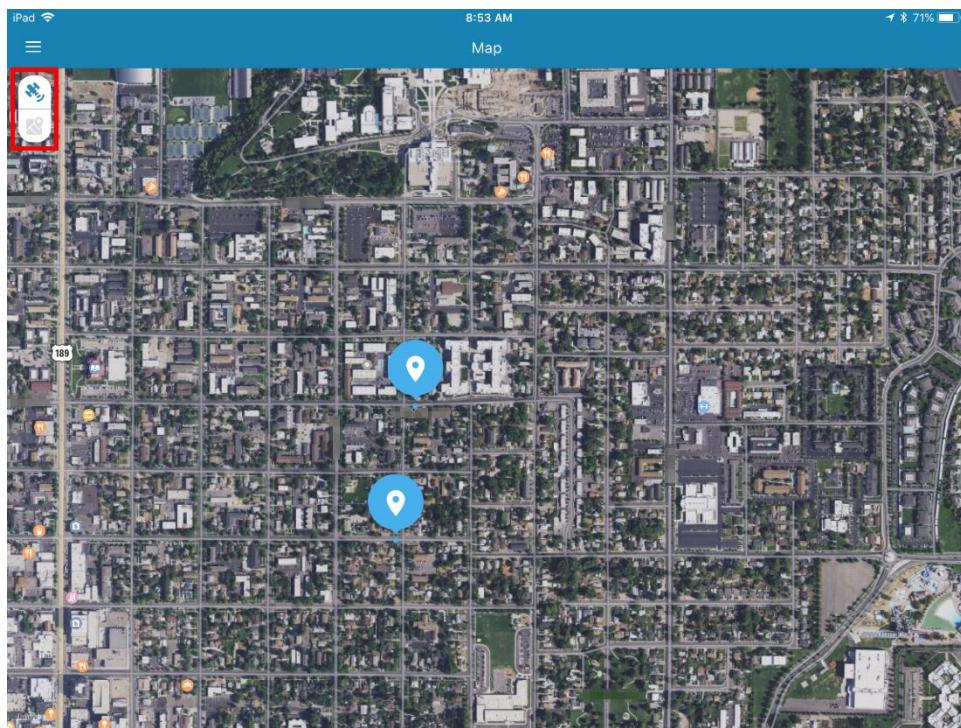


Map

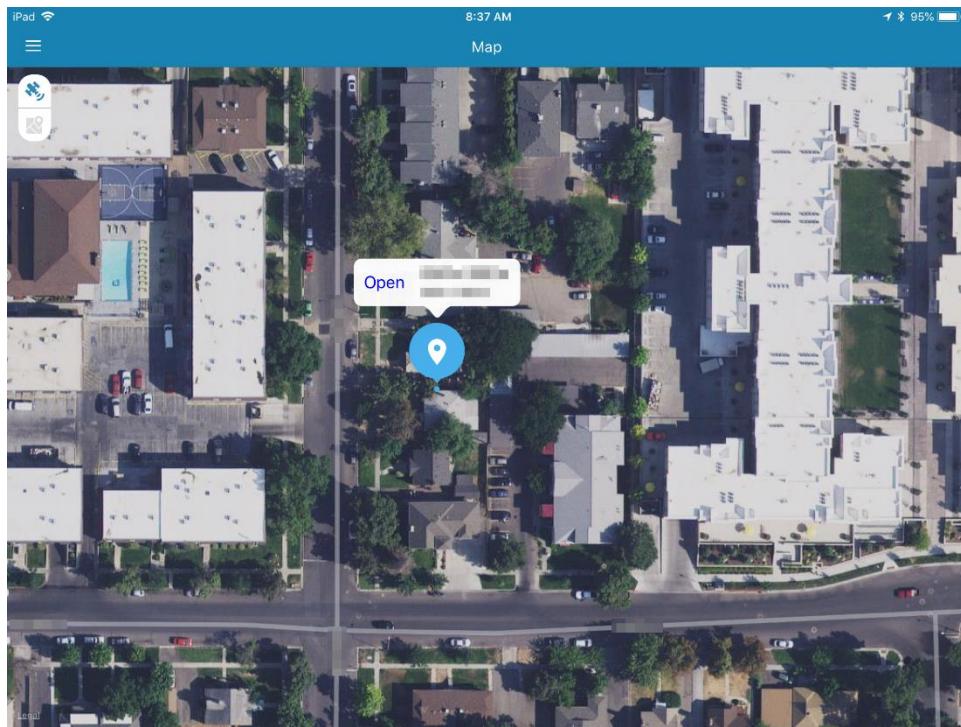
Select “Map” to display all the projects with valid addresses.



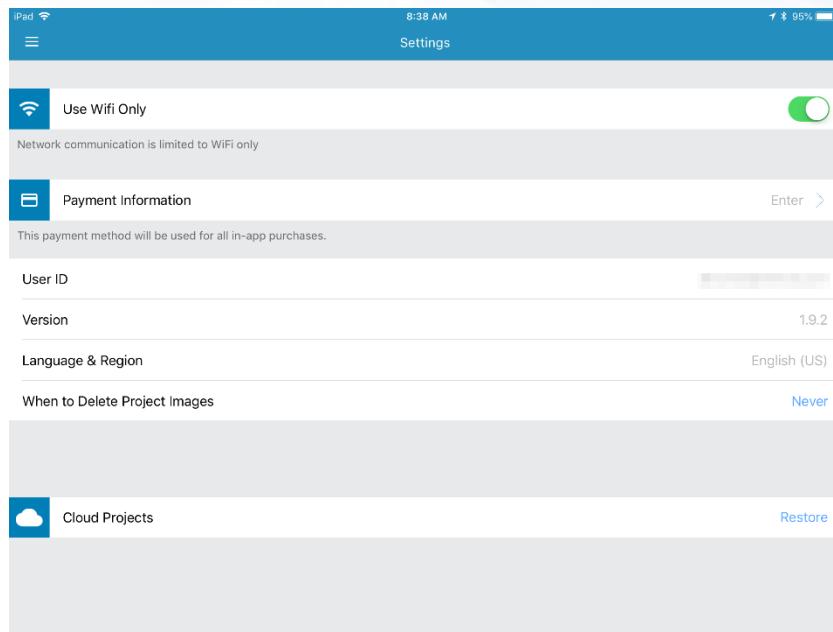
The toggle (in the upper left-hand corner) allows users to change the display to a Standard Map or Satellite view. The markers on the map show the locations of the projects stored locally on the device.



Tapping on the marker reveals basic information about the project.



Settings



These settings are available:

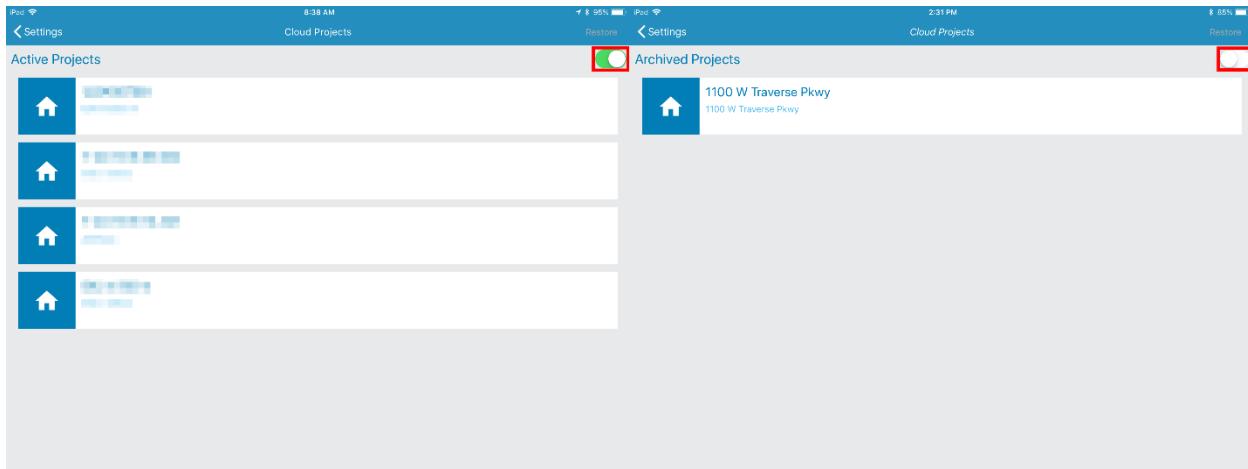
- Use Wi-Fi Only switch:
 - The default is set to "on."
 - When turned "on," the phone must be connected to Wi-Fi for the app to have network communication.
- Payment Information—used for credit card payment option
- User ID—display only
- App version—display only
- Language & Region—display only
- When to Delete Project Images—used to set a timeframe for deleting images
- Cloud Projects—allows the user to download projects saved to the cloud

Cloud Projects

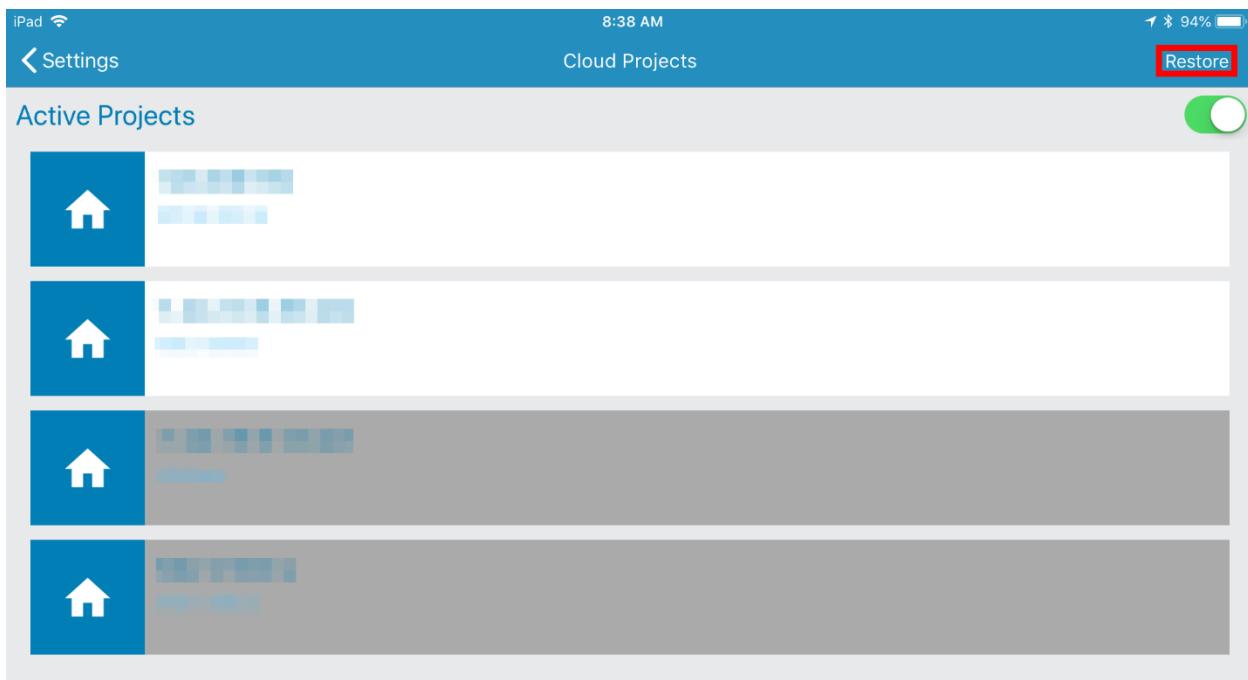
Pressing "Restore" opens the "Cloud Projects" menu.



Pressing the toggle button  switches between active projects and archived projects saved to the cloud.



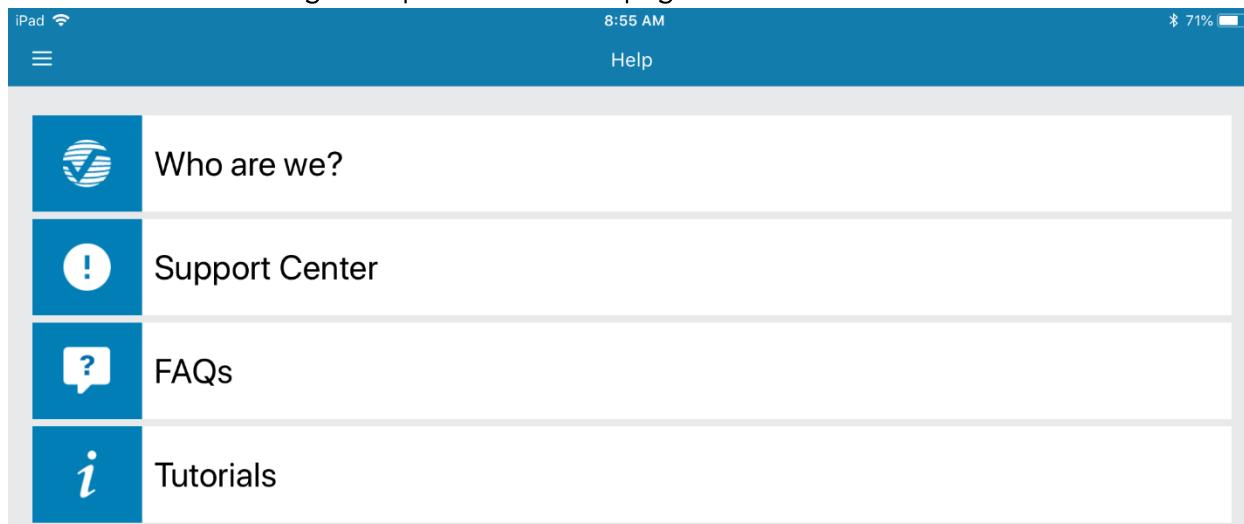
The user selects which projects they need and press "Restore" to download.



[Help](#)

Help menu includes:

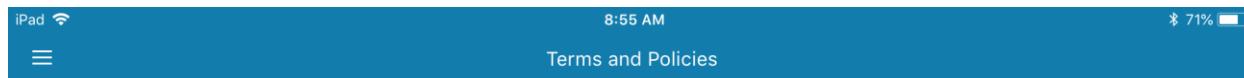
- Who are we?
 - This directs to Geomni™'s web site.
- Support Center
 - Support Center is a link to the eService center web site.
- Frequently Asked Questions
 - This opens a small FAQ to answer some generic questions about the app.
- Tutorials
 - Selecting this opens a YouTube page with video tutorials.



[Terms and Policies](#)

Terms and Policies include:

- Privacy Policy
- End User License Agreement



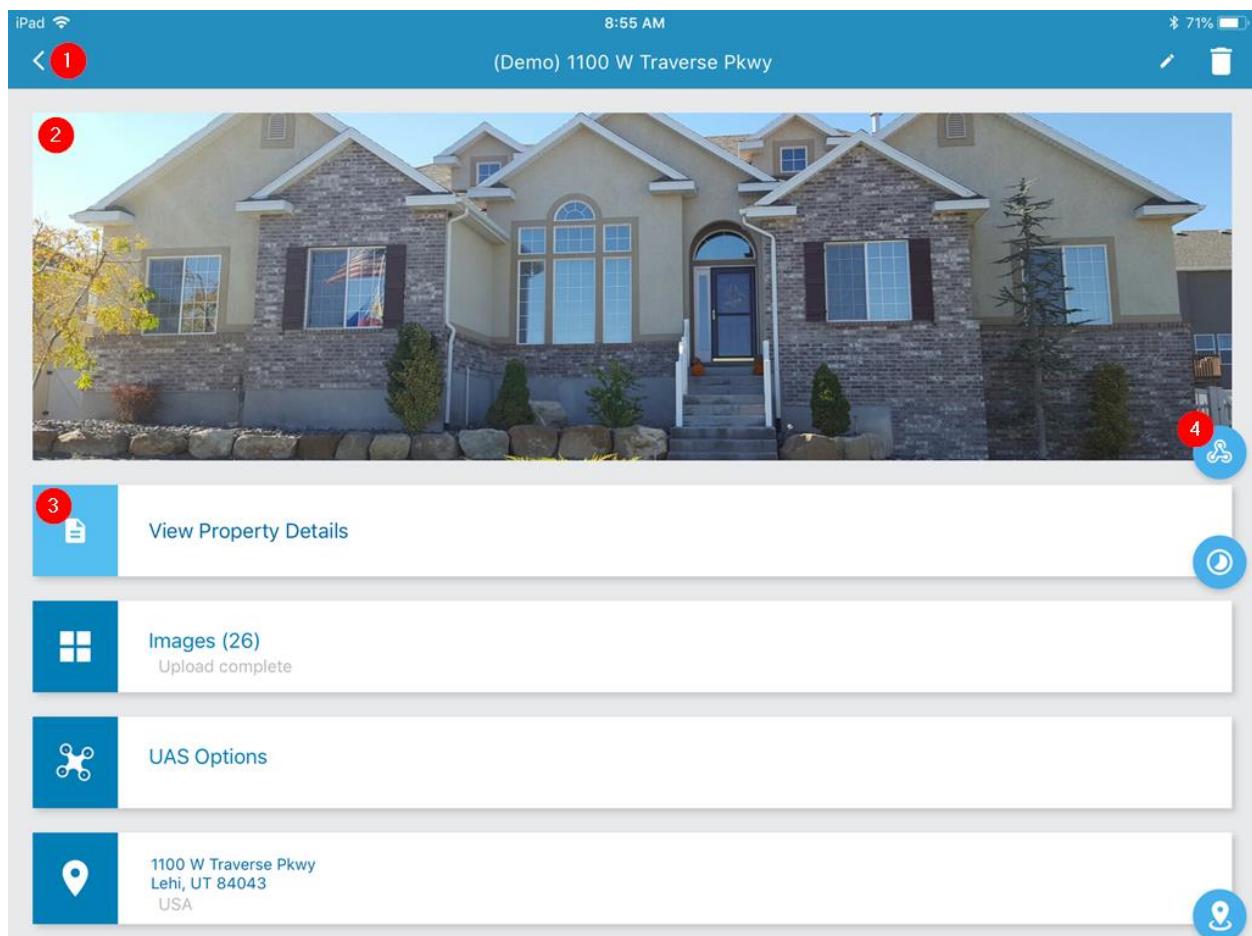
[Log out](#)

Logs the user out of the application.

Project Home Page

The Geomni™ mobile app requires a separate project for each property address. The project page's features are:

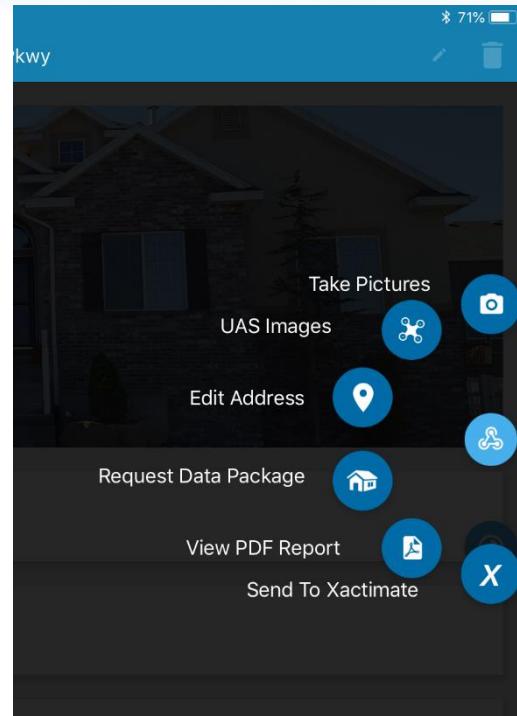
1. A button to return to the Projects menu.
 2. A header image that automatically displays the first picture taken by you or imported by the UAS, whichever is first.
 3. A message/action bar
 - o This section displays various status messages that lets you know what happened to the project last.
 - o It also displays the next step in the process. This section may show:
 - Take pictures
 - Request Geomni™ Roof and Geomni™ Property
 - View Geomni™ Roof and Geomni™ Property data packages
 4. The action button 
- o This button opens a menu of project actions.



The Action Button Functions

Pressing the action button opens a menu wheel that does the following:

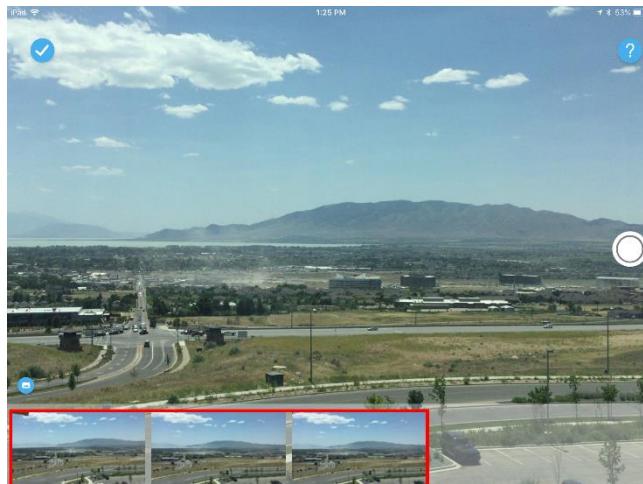
-  Opens the image capture feature to take pictures
-  Opens the UAV image capture feature
-  Opens a screen to enter/edit the property address
-  Requests a Geomni™ Roof or Geomni™ Property Data Package
-  Views Geomni™ Roof /Geomni™ Property PDF reports
 - A message displays if there is no PDF report to view
-  Sends the project to Xactimate



Camera Features

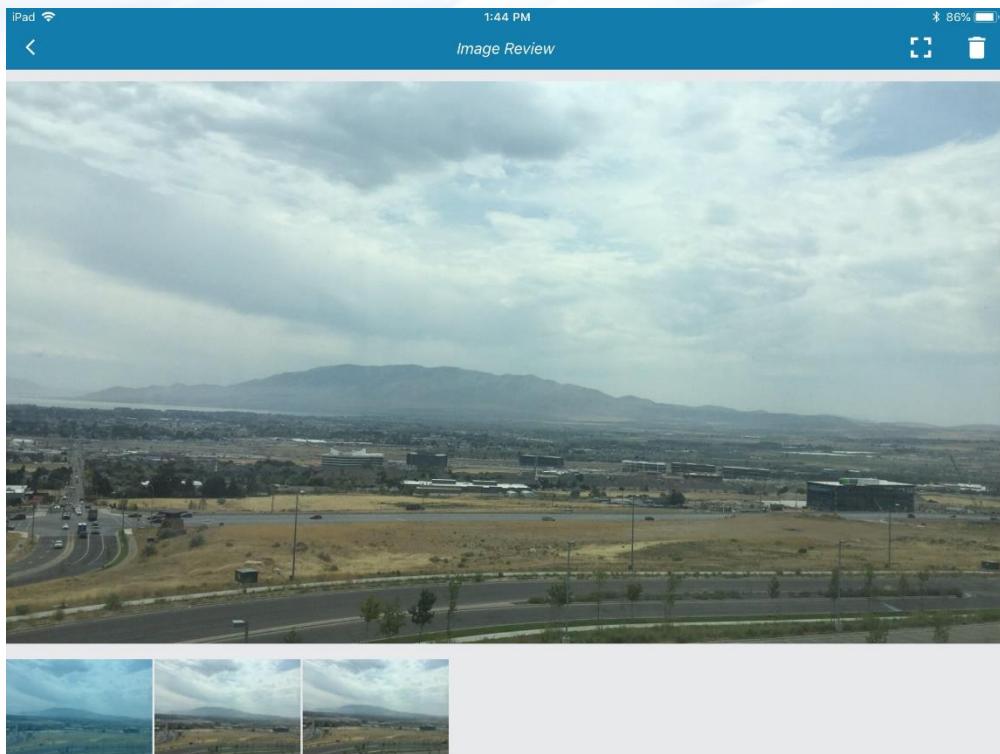
The camera may be opened by pressing the  in the Action Wheel. On-screen "Help"  may be opened and viewed at any time. This guides the user through capturing images (capture the entire front of the structure first, move around the structure, taking a minimum of 8 images, and other helpful tips).

Images display in a thumbnail image bar:

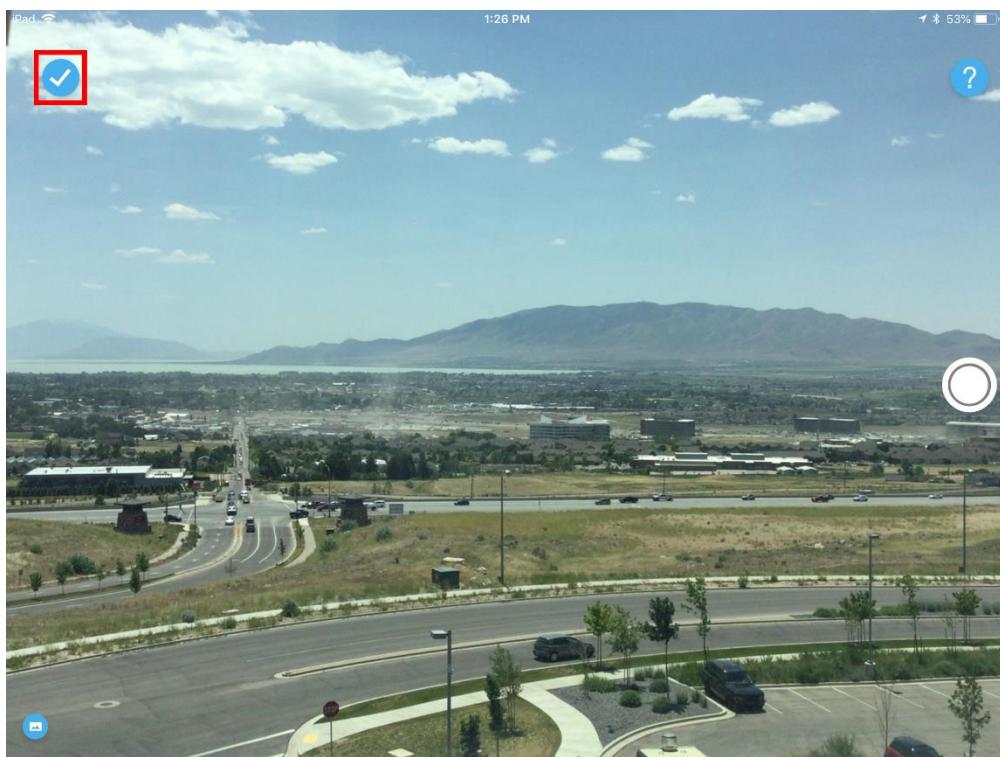


The image bar displays when the first image is taken. The user can display or hide the image bar by pressing the  icon. This allows more screen space while capturing images. Swipe up on the image to delete it.

Tap an image to open a larger view. In this view, the user can zoom in/out and delete images.

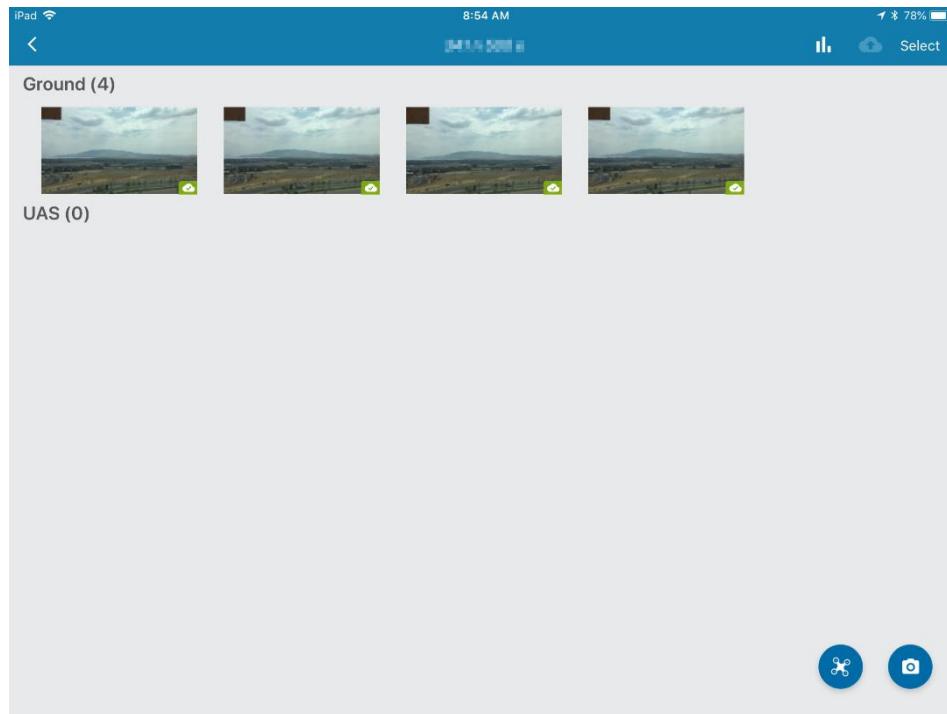


Pressing the  (checkmark) uploads the pictures taken and opens the upload menu.

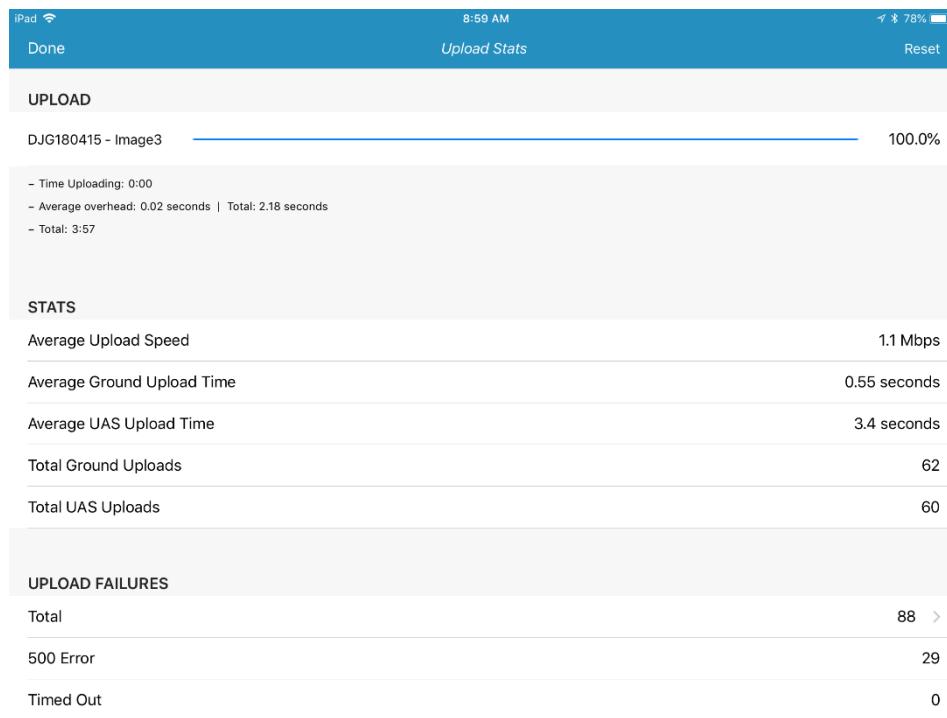


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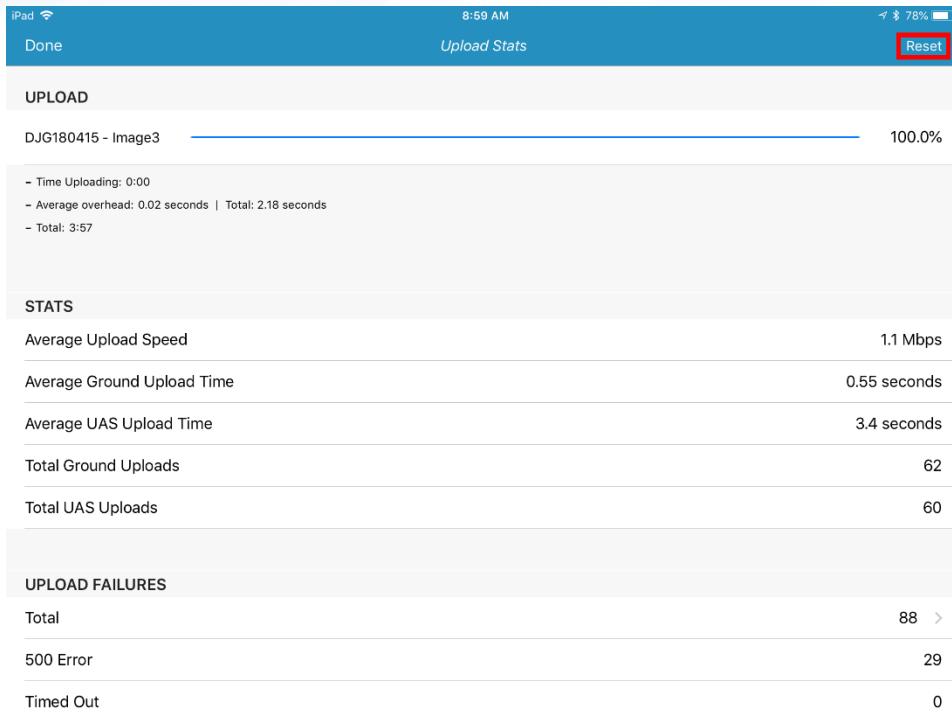
The first image in the list displays at the top of the project's homepage and it is the thumbnail image in the Project list. Images will display in the Geomni™ reports in the order they are displayed when uploaded.



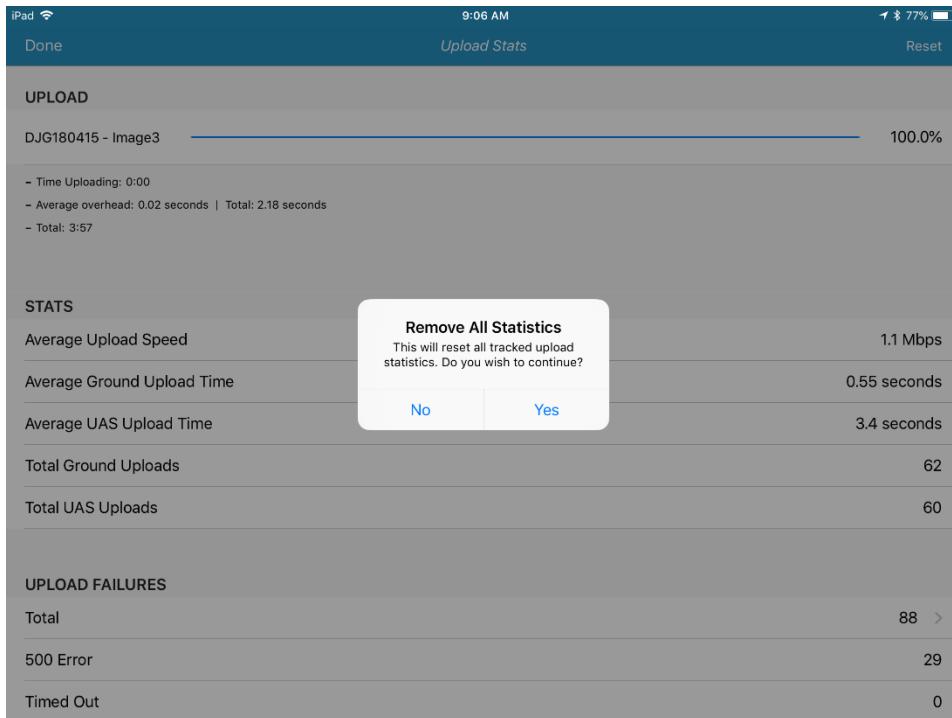
The icon opens the app's upload analytics. It shows the statistics of how the app uploads images to Geomni™'s cloud. There are statistics for ground imagery and UAV imagery.



The user may choose to reset these statistics by pressing the reset button in the upper-right corner.

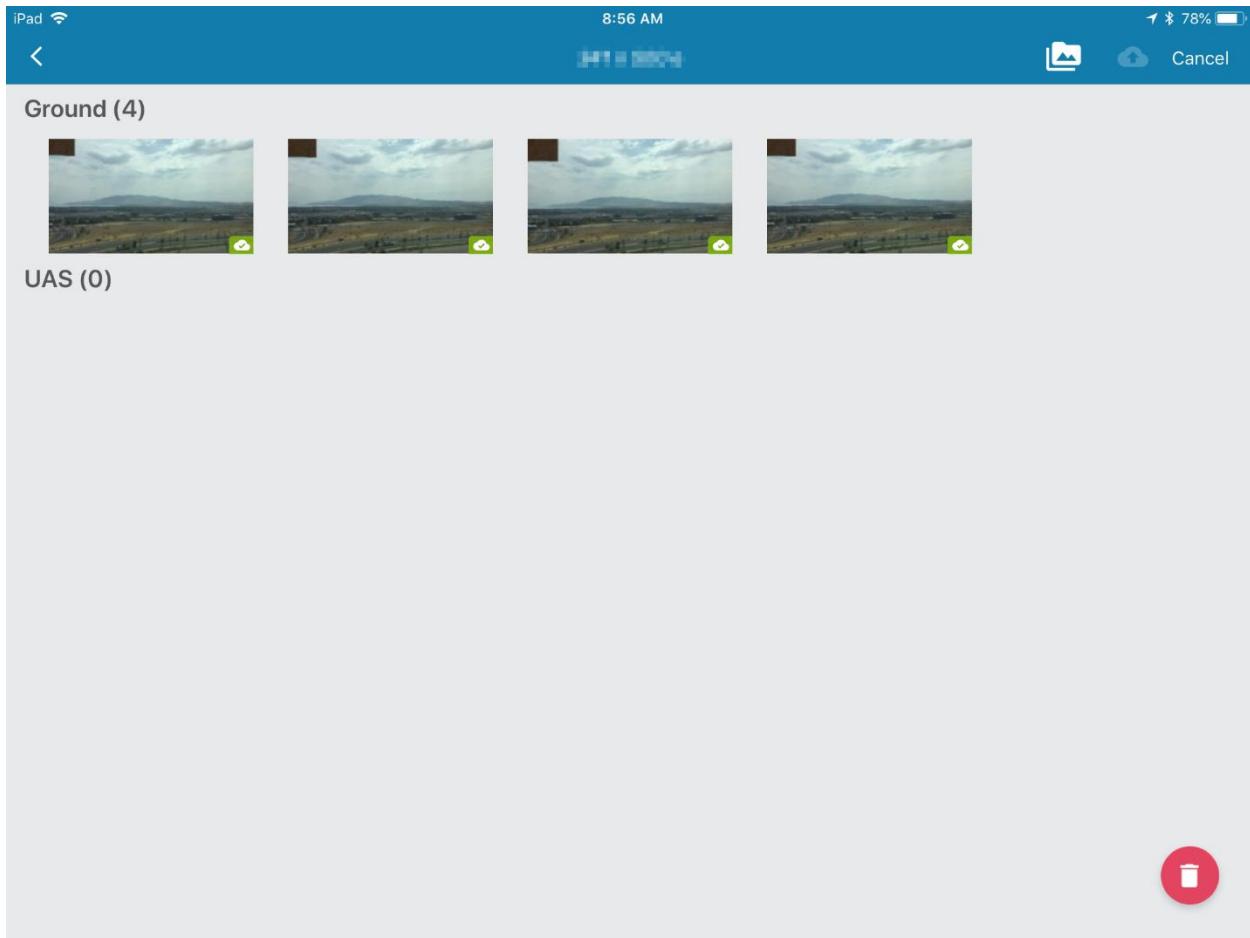


The user must confirm that they want to reset all statistics to continue.



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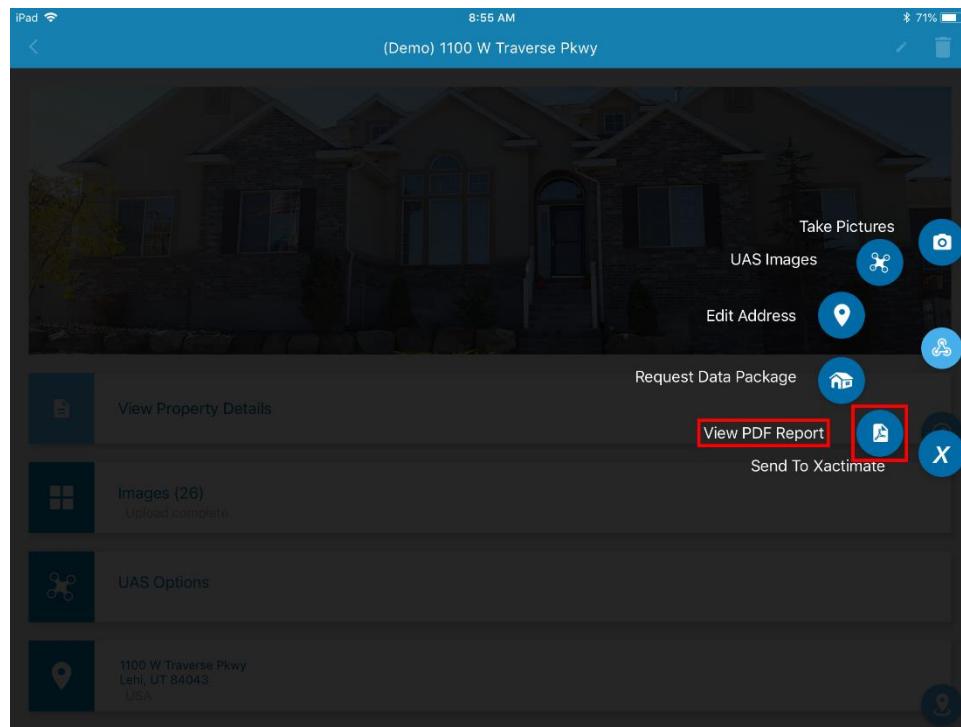
Tap “Select” to enter a select mode. The user may select images to upload to the cloud if they were not uploaded earlier (), delete unwanted images ()), or copy the images to the device’s image folder ().



Swipe left or right to scroll through additional images in this view. The image name displays at the top left of each image.

Viewing Geomni™ Reports

The user may view a returned report by opening the PDF using the Action Button in a Project's menu.



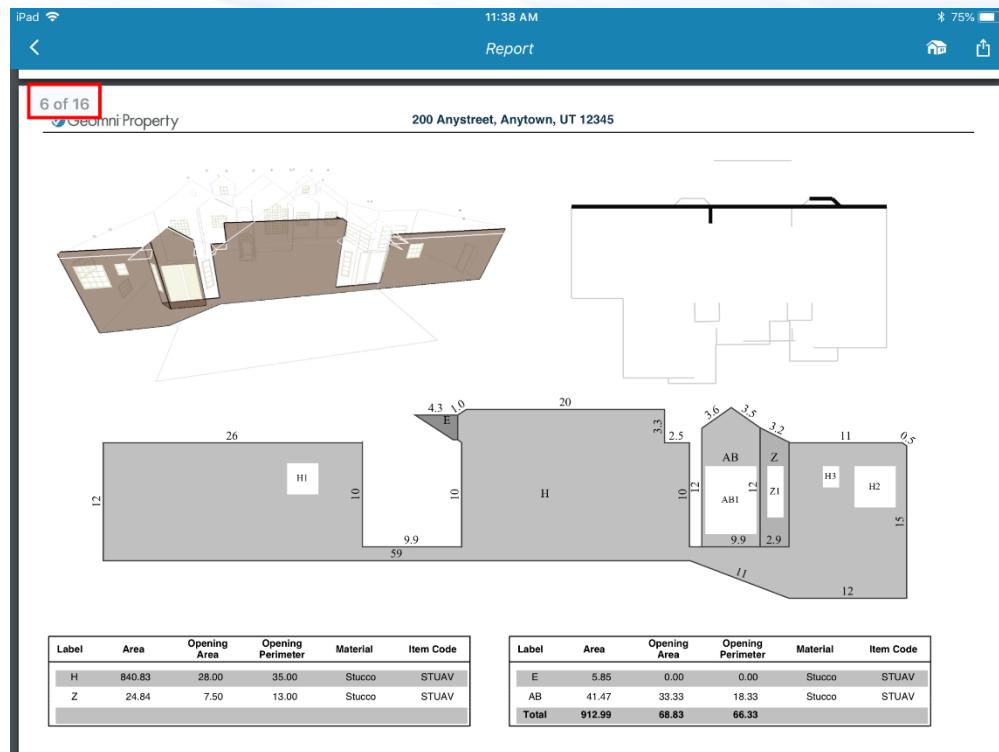
This opens the PDF report.

A screenshot of a PDF report titled 'Geomni Property' for address '200 Anystreet, Anytown, UT 12345' with 'Claim Number' '42464'. The report includes an aerial photograph of a house, a 'Property Address' section with coordinates, a 'Contact Info' section with sample contact details, and a 'Summary' table with the following data:

# of Floors	2	Living Space	3,870 sqft	Roof Vents	15
Basement	Yes	Non-Living Space	730 sqft	Satellite Dishes	2
Front Door Latitude	40.00001	Porches	600 sqft	Wall Material	Masonry, Stucco
Front Door Longitude	-90.00001	Rain Gutter	240 ft	Predominant Pitch	8/12
Garage/# of Cars	3	Roof Material	Shake		

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The user can scroll down to view the full report. The page number is in the upper-left corner.



The report can be exported—sent in an email, saved to the phone, or printed—by pressing the  icon.



To view the 3D model, press the  icon to open the model



[Reset](#)

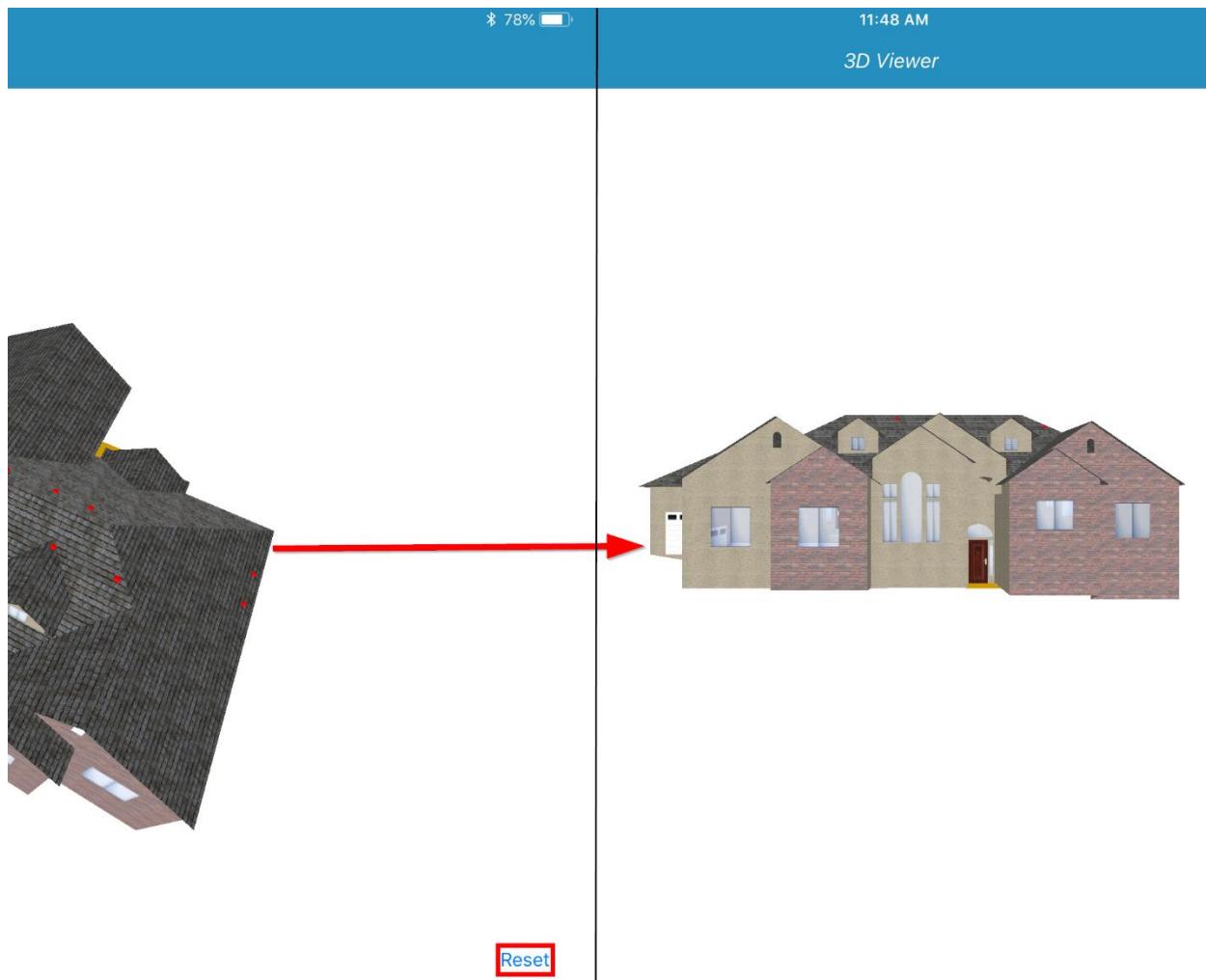
The model can be rotated or zoomed in to show detail.



[Reset](#)

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Release 1.9.0

The “Reset” button returns the model to its original orientation.



Appendix C. Xactware Assignments vs Non-Assignments

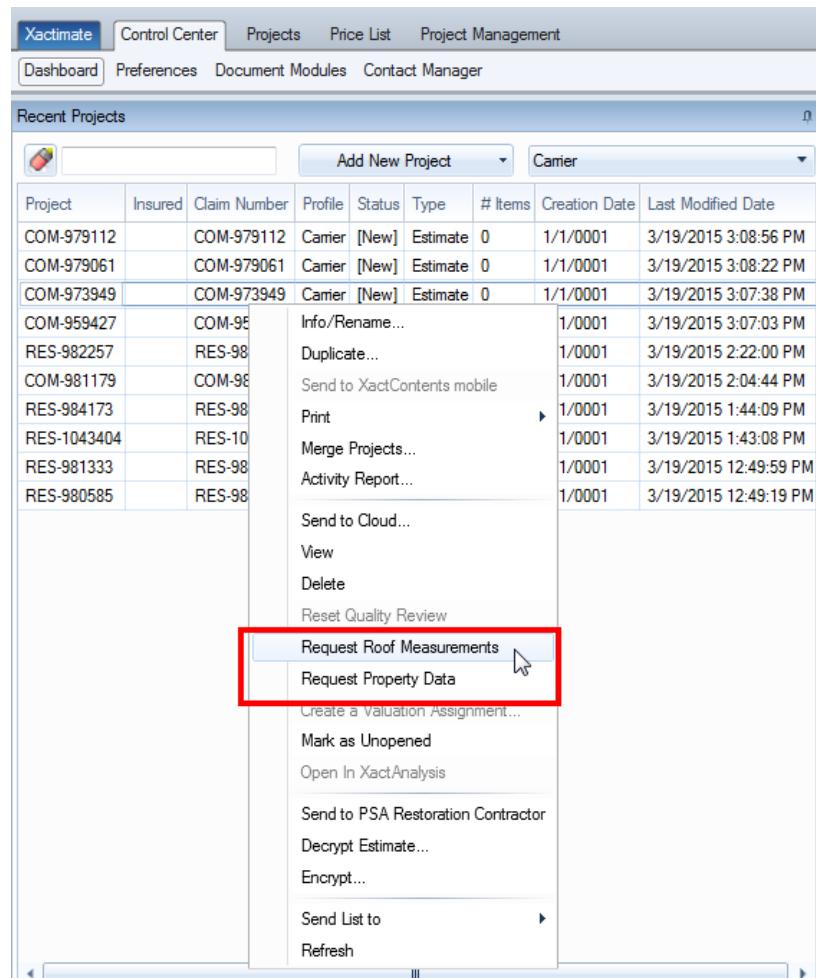
When requesting a data package from Xactimate or XactAnalysis, either an Assignment or Non-Assignment request can be made. Non-Assignment requests are made from Xactimate and are not associated with an assignment on XactAnalysis. When a non-assignment request for a data package is made from Xactimate, the user will receive an email which will include a link to the Geomni™ Package Data Page. To access the Geomni™ Mobile app, click on "Open Geomni™ Mobile App" at the bottom of the page when viewing on an iOS mobile device.

NOTE: XactAnalysis SP does not allow ordering of Geomni™ products.

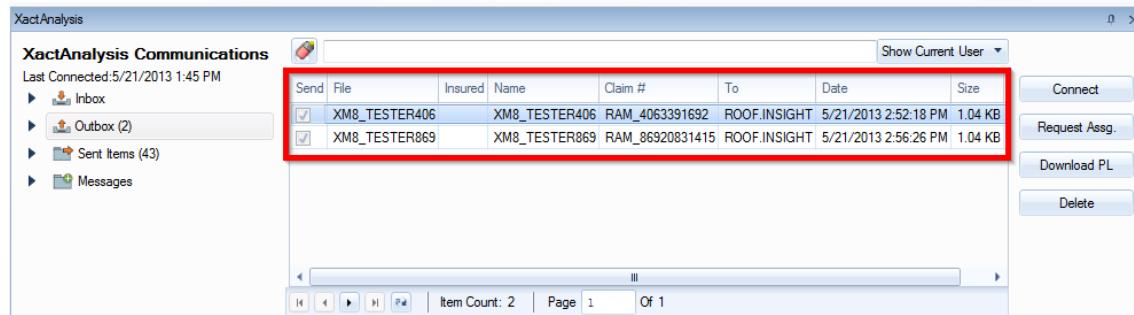
Non-Assignment Requests

The estimate is created in Xactimate (without an XactAnalysis assignment).

A request for a Geomni™ data package is created for the estimate.



If imagery already exists for the location, an email is sent to the contact (information entered during request). A note is also sent to the XactAnalysis inbox.

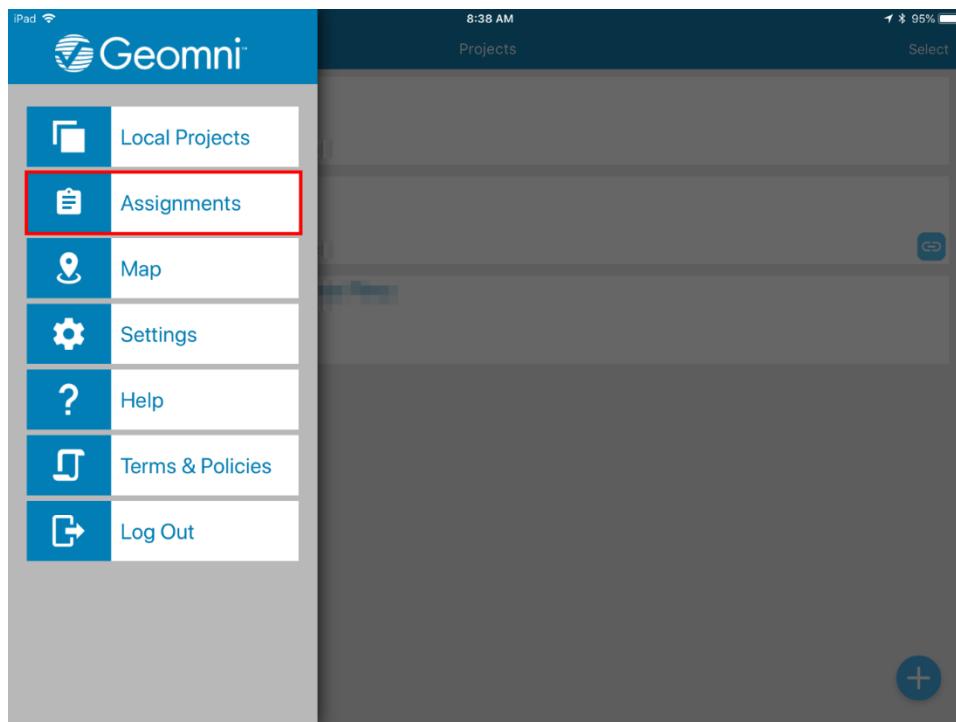


If no imagery is available, an email is sent to the contact saying the request can't be fulfilled. A note is also sent to the Xactimate inbox. The email and note contain a direct link to the Geomni™ Mobile app. The mobile app will prompt user to either select an existing project or create a new one. The new project in the app will be connected to the portal request. The user can upload images (UAS and/or ground) to the new project. If Geomni™ data is requested from the app, it will bypass credit card billing, which will take place via the carrier contract.

Once the request is made, the portal project will be processed (or reprocessed, if already fulfilled) using the newly added images. Data will be returned to both Xactimate and to the mobile app.

Assignment Requests

Assignments requested in Xactimate by the same user may be accessed by clicking "Assignments" in the Menu bar.



From there, they may be downloaded and treated as a regular project.

Appendix D. Linking a Project

If you order a data package through Xactimate or Xactanalysis and want to link it to a project in your Geomni™ Mobile App to capture images, you can do so either using your emails or the link in the data page.

Using the Mobile App Link

Open the “Order is Being Processed” email on your mobile device. Press the link to open the order in the mobile app.



Thank you for your order

Your Geomni™ Property request for [REDACTED] has been received and will be processed as soon as possible. Your order ID is [REDACTED]

When your Geomni™ Property order is ready, you will receive an email with a link to this important data package that includes 3D plans and much more. You can also download a bonus software file that can be used in Xactimate estimates. (If you don't use Xactimate, you can disregard this file.)

You can check the status of your request at any time on your [Geomni™ data page](#).

If there are multiple buildings for this property, you can [also add additional buildings to your request](#). Please note that residential sheds, detached garages and similar structures on a parcel do not require a secondary request as they are usually included in your data package. This application is specific to commercial structures, like apartment and business complexes.

You can also view this order in the [Geomni™ Mobile App](#).

Have questions or need support?

[Let's Chat](#)

We are available to chat every hour of the day, any day of the year, except for Christmas Day and New Year's Day. To chat, click the hyperlink above, or visit [OrderGeomni.com](#) and click the Chat icon.

You can also call us at 800-567-9228 on business days from 6:00 a.m. to 6:00 p.m. MT.

Your Geomni™ Team

You may import the project into a local one or create a new project.

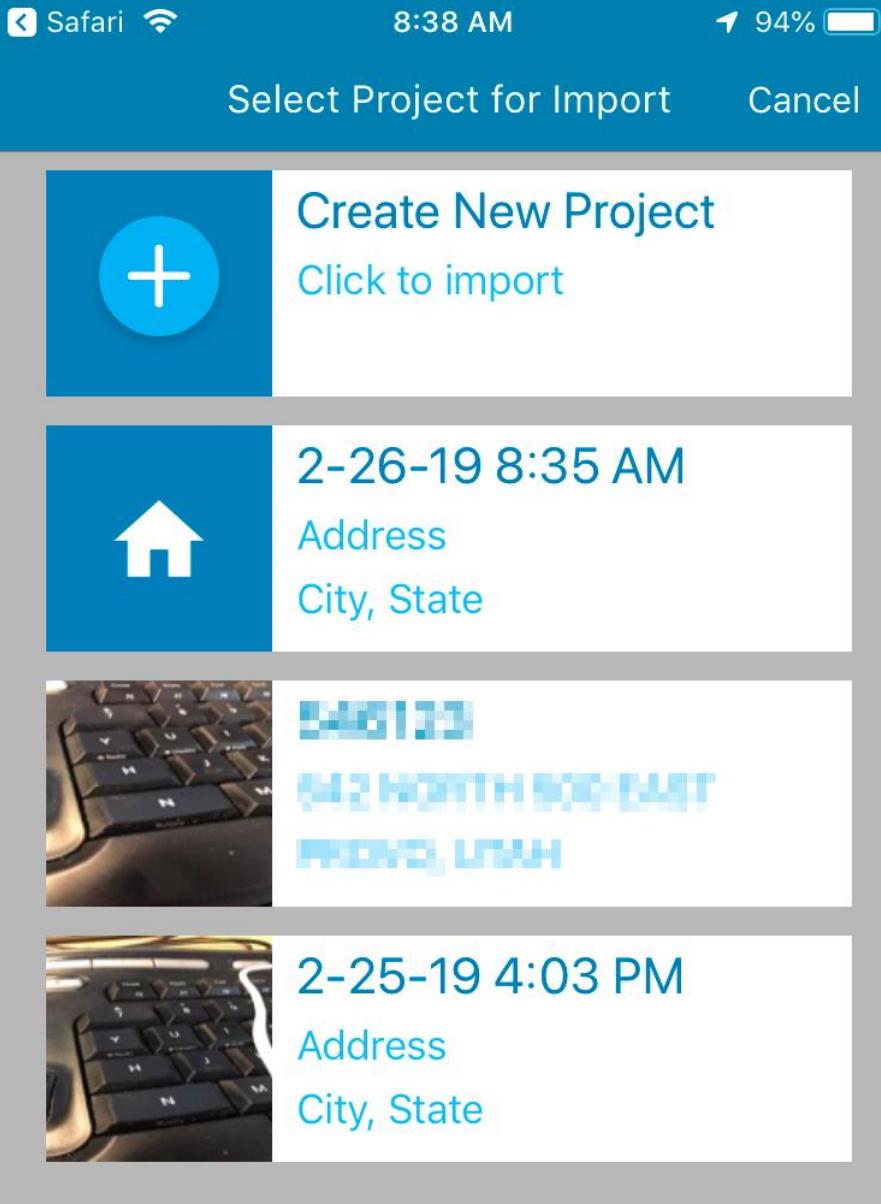
Safari 8:38 AM 94%

Select Project for Import Cancel

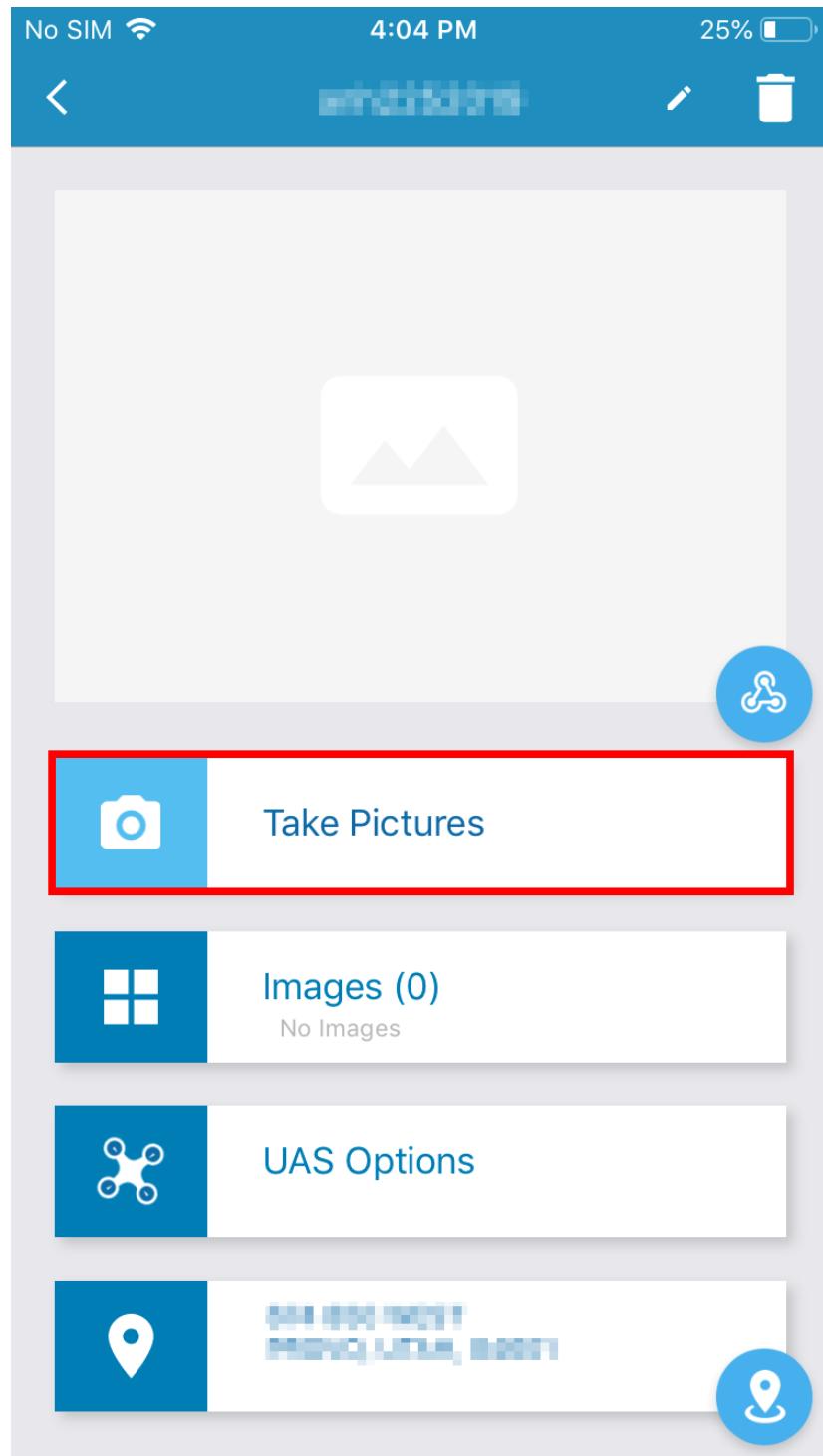
Create New Project
Click to import

2-26-19 8:35 AM
Address
City, State

2-25-19 4:03 PM
Address
City, State



Press "Take Pictures" to begin capturing imagery.

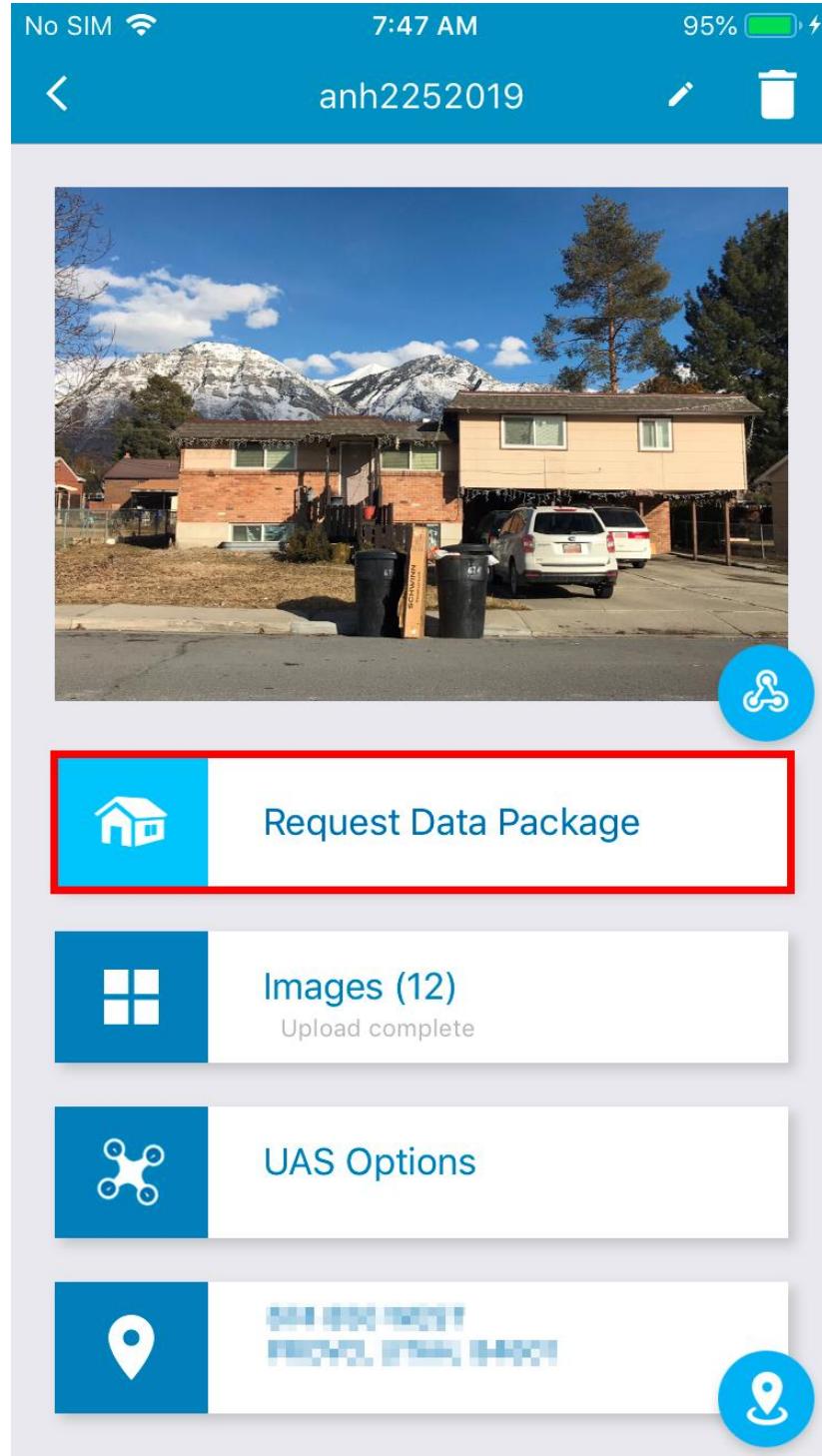


Capture images. Click the "Check" icon to close the camera and upload the images.

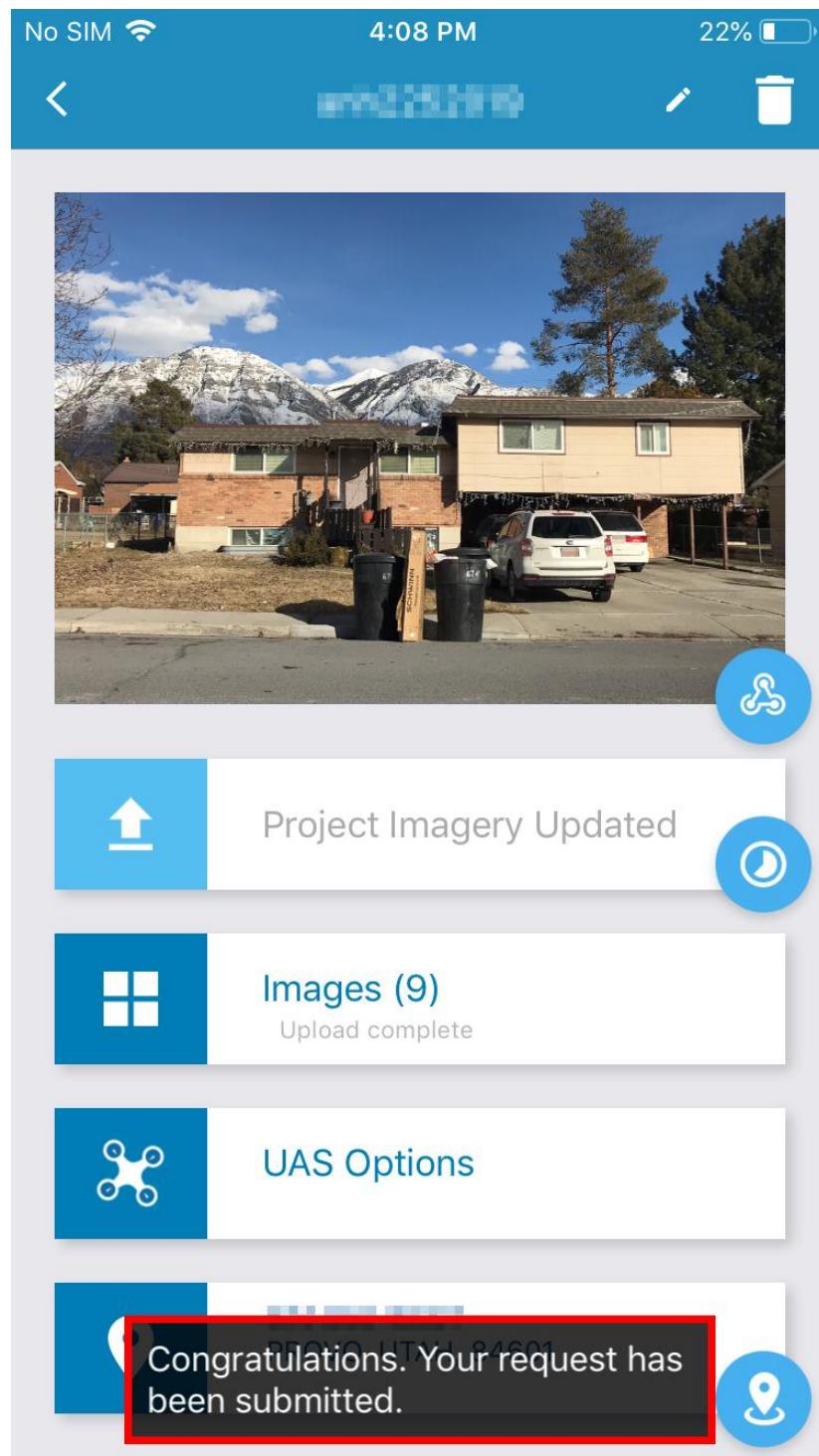


NOTE: Uploading images without Wi-Fi uses a lot of your own cellular data

Submit images by pressing “Request Data Package.” This will NOT take you through the ordering process. It will add your pictures to your data package.



You will only receive a notification that the request has been submitted.



Using the Data Page Link

If you're using a 3rd party email application on your phone, like Gmail, Outlook, or others, the mobile link may not work in the email. If that is the case, follow this method using the mobile link on the data page

Open the data page using the link within the email.



Thank you for your order

Your Geomni™ Property request for [REDACTED] has been received and will be processed as soon as possible. Your order ID is [REDACTED]

When your Geomni™ Property order is ready, you will receive an [email](#) with a link to this important data package that includes 3D plans and much more. You can [also download](#) a bonus software file that can be used in Xactimate estimates. (If you don't use Xactimate, you can [disregard](#) this file.)

You can check the status of your request at any time on your [Geomni™ data page](#).

If there are [multiple](#) buildings for this property, you can [also add](#) additional buildings to your request. Please note that residential sheds, detached garages and [similar](#) structures on a parcel do not require a secondary request as [they](#) are usually [included](#) in your data package. [This application](#) is specific to commercial structures, like apartment and business complexes.

You can also view this order in the [Geomni™ Mobile App](#).

Have questions or need support?

[Let's Chat](#)

We are available to chat every hour of the day, any day of the year, except for Christmas Day and New Year's Day. To chat, click the [hyperlink](#) above, or visit [OrderGeomni.com](#) and click the Chat icon.

You can also call us at 800-567-9228 on business days from 6:00 a.m. to 6:00 p.m. MT.

Your Geomni™ Team

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Scroll down to the bottom of the data page.

Project Information

Claim Number	[REDACTED]
Address	[REDACTED]
Latitude, Longitude	[REDACTED]
Request Type	Geomni Property
Current Status	Received and Processing
Geomni™ Items Included?	Yes

Available Actions

Resolve Address	<button>Resolve Address</button>
Cancel Request?	<button>Cancel Request</button>

Property Map

Map Satellite

Google Map data ©2019 Google Imagery ©2019 - DigitalGlobe, State of Utah Terms of Use Report

Color of Pin	Status of Request/Building
Red	Closed
Yellow	Being processed
Green	Complete

Scroll Down

Resources

At the bottom of the data page, press the link to open the project in the mobile app.
Continue the project as normal.



[Open In Geomni Mobile App](#)

Appendix E. Security

Mobile App

Application Authentication – Auth. Token encrypted using BCrypt.

Storage Encrypted - 256-bit AES when device is locked.

Device Security – iOS Passcode Security (References Provided).

Web Service Transfers

Transfers encrypted using 256-bit SSL security.

Servers

Storage Encrypted – 128-bit AES using Microsoft.NET implementation.

Index

- 3D Model, 43
- action button, 35, 36, 41
- address, 5, 9, 10, 29, 35, 36
 - enter, 5
- assignments, 29, 46
 - import, 30
- Camera Features, 36–40
 - select mode, 40
- data package, 11, 13, 16, 36, 45
 - ordering, 8–12
 - viewing, 12, 41
- download, 3
- flight boundaries, 18, 23
- Geomni™ Reports. *See under* data package
- Height Above Structure, 26
- help, 34
- images, 9, 16, 19, 22, 36
 - auto-delete, 32
 - collecting, 6–7
 - sync, 19–21
 - uploading, 8
- Local Projects, 27–29
- login, 3
- map, 30
 - toggle, 31
- mission, 16
- planning, 16–21, 22, 23
- settings, 23, 24–26
- start, 23, 26
- obstacles, 18
 - avoidance elevation, 26
 - menu, 19, 26
- Payment Information, 32
- Project Status, 29
- projects, 27, 30, 33
 - cloud, 32
 - details, 10
 - linking, 28, 34, 45, 46, 47
 - new, 4–6
 - page, 6, 8, 35
 - sending to Xactimate, 13–15
- Roof Pitch, 26
- Security, 55
- Settings, 32
- Side Overlap and Frontal Overlap, 26
- Structure Box, 17
- Structure Height, 25
- taking pictures. *See under* images
- Terms and Policies, 34
- upload analytics, 38
 - resetting, 39
- upload menu, 37–40
- Wi-Fi, 4, 7, 8, 32