



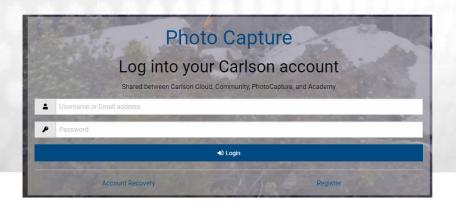


Carlson Photo Capture Drone Image Processing

Before you start, set up your account using an email address and a password

	Photo Capture	
	Create a Carlson account Used for Carlson Cloud, Community, PhotoCapture, and Academy	
First name		
Last name		
Username		
Email address		
Company (Optional)		
Password		
ANTER THE	Contraction of the second s	10.0019
	🖋 Register	100000000000000000000000000000000000000
	Return to Login	

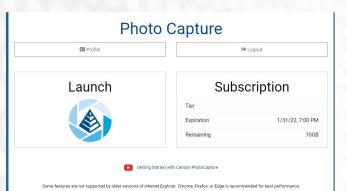
Then log in



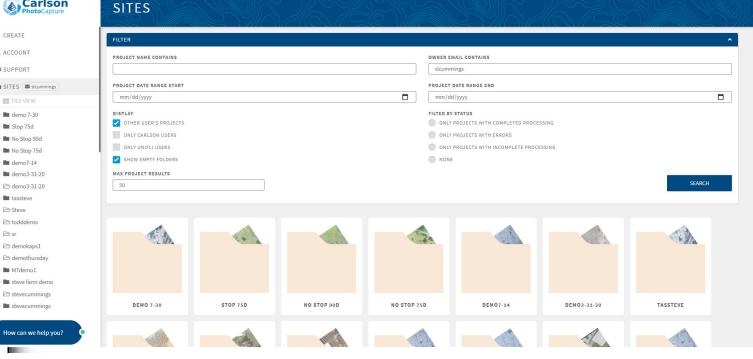


Click Launch to see your Dashboard

Click Create in the Project Tree at the upper left to start a project







Set up a project in Carlson Photo Capture by naming it, choosing the desired output unit of measure and the correct output coordinate system projection.

CREATE PROJECT

PROJECT DETAILS ?	PLATFORM	0	AVAILABLE PROCESSING	3
Accident			Used: 0.00 GB	Available: 20.00 GB
OUTPUT UNIT OF MEASURE	• AIRPLANE		NOTIFICATION SETTINGS	0
OUTPUT COORDINATE SYSTEM	O OTHER		 ERRORS FINISHED PROCESSING 	
KENTUCKY SINGLE ZONE (FTUS) NAD83(HARN) (EPSG:3091) ADD TO EXISTING SITE (LEAVE BLANK FOR NEW SITE)			PROGRESS UPDATES	
N MAP 🖾 IMAGES 📄 BROWSE				SELECTED: 0 0 ?



Pick the coordinate system by typing part of the location into the box, such as "India" and choose the desired projection

Steve	
UTPUT UNIT OF MEASURE	
Meter	~
UTPUT COORDINATE SYSTEM	
India	
UTM zone 46N Indian 1954 (EPSG:23946)	
UTM zone 47N Indian 1954 (EPSG:23947)	
UTM zone 48N Indian 1954 (EPSG:23948)	
TM 106 NE Indian 1960 (EPSG:3176)	
UTM zone 48N Indian 1960 (EPSG:3148)	
UTM zone 49N Indian 1960 (EPSG:3149)	_
UTM zone 47N Indian 1975 (EPSG:24047)	
UTM zone 48N Indian 1975 (EPSG:24048)	
India zone 0 Kalianpur 1880 (EPSG:24370)	
India zone I Kalianpur 1880 (EPSG:24371)	
India zone IIa Kalianpur 1880 (EPSG:24372)	
India zone IIb Kalianpur 1880 (EPSG:24382)	
India zone IIIa Kalianpur 1880 (EPSG:24373)	
India zone IVa Kalianpur 1880 (EPSG:24374)	ma
India zone IIb Kalianpur 1937 (EPSG:24375)	

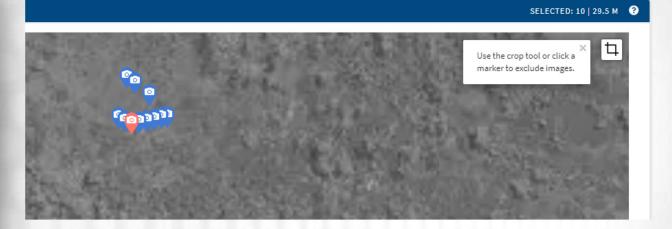


Or drag and drop images into the image window and PhotoCapture will select the most current projection available

Steve		Use
OUTPUT UNIT OF MEASURE	AIRPLANE	
Meter		NO
OUTPUT COORDINATE SYSTEM	OTHER	2
UTM ZONE 555 WGS 84 (EPSG:32755)		
ADD TO EXISTING SITE (LEAVE BLANK FOR NEW SITE)		
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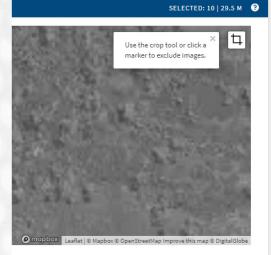
Use the crop tool or click images off to prevent uploading specific images. Blue – included Orange - excluded





Now upload a Ground Control File by clicking the Add Ground Control button, selecting the file

type and the format



ADD GROUND CONTROL

		Add Ground C	ontrol Points:		
l	LAND XML FILE	TEXT FILE	CRD/CRDB FILE	MANUAL	
					CANCEL

	Add Ground Control Points:	
	Coordinate Format	
ВАСК	northing/easting easting/northing latitude/longitude	CANCEL



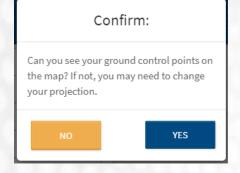
Browse to the file and select then click Finalize

Note that you see a list of Ground Control Points with the ability to make some checkpoints. Also note you can see the GCPs in the image window below

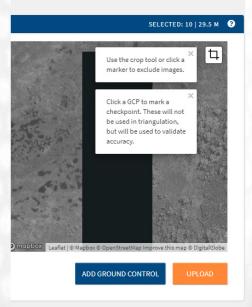
	Add Ground Control Points:
	Drag/drop file onto this modal or browse to upload your plain-text Ground Control file.
	Ground control points must be provided as a plain text file (.txt, .csv, or .gcp extension) in the following format:
	<name>,<latitude>,<longitude>,<elevation></elevation></longitude></latitude></name>
	For example: Red X, 42.6857053,98.5948348,1808.521 Black Circle, 42.6852053,98.5943248,1809.423
	Specify latitude and longitude in degrees to at least 7 decimal places. Specify elevation in meters with 2 decimal places of precision.
ВАСК	CANCEL FINALIZE
	Add Ground Control Points:
5	lank to exclude it from the project: Description GCP Checkpoint anything whats up
L	BACK CANCEL FINALIZE
IMAGE	ES BROWSE
2029-2	



You are prompted to confirm you can see the GCPs in the image



Then click the Upload button





One last chance for making corrections and adding any parameters to the Advanced Fields dialog by clicking the + or hiding these fields with the –

For RTK flights, input the GPS accuracy expected, found in the RTK specs, into the X, Y, Z boxes

Click the confirmation box at the bottom and click Create

Zone:	UTM zone 55S
Earth Model:	WGS 84
Code:	EPSG:32755
Unit of Measure:	Meters
- Advanced Fields (optional)	
Principal Point (mm)	Focal Length (mm)
xo:	
yo:	Min Stereo Models Per Point
Flight GPS Accuracy (meters)	
X:	Run as single cluster
Y:	Orbital dataset
Z:	Confidential dataset
Demo Dataset Name	Connuential dataset
	Use alternate pipeline
The coordinate system and	d unit of measure above are correct.
**I acknowledge that my imagery must be	e within 60° of nadir and have at least 50% forward/side overlap



Images upload – don't close this window until all images are transferred

ACCIDENT

IMAGE UPLOAD

DET	AILS			
Digital Camera:	DJI FC651	.0		
Images:	7 of 111 (902.0 M)		100%	100%
Ground Control Points:	None			
Enabled Notifications:	Errors	Completion	Progress	

BUNDLE ADJUSTMENT

Carlson.

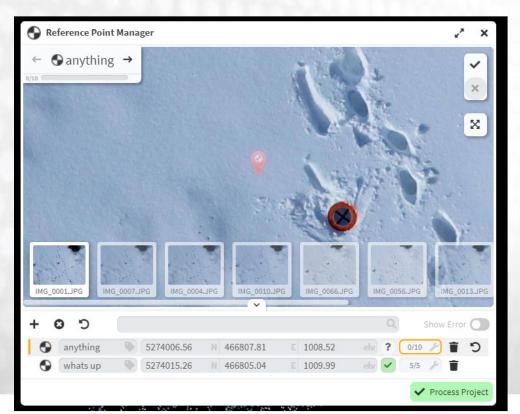
QUEUED

05/31/19 12:05PM

After some initial processing, correct the Ground Control Points

(GCPs are not required)

Move crosshairs to center of target and left click. If already in the correct position click the check in upper right. If you want to turn the tack back to red to skip this image's correction, click the x in the upper right. To expand the image, click the crossed arrows in the upper right. To move to the next image, rightclick or click the image in the bottom row. Use the arrows at the top left to move from one GCP to another. Once completed, click "Process Project" in the lower right to continue.



After clicking the Process Project, you will be asked to confirm the processing changes.

Click the "Pause Processing...." box to stop the program at the Bundle Adjustment stage to review your error prior to producing the finished products. You can then add, delete, or modify gcps over and over until you are satisfied with the results at no additional cost for online users.

CONFIRM PROCESS CHANGES

This will begin reprocessing your project with the new reference point data.

PAUSE PROCESSING AFTER REFERENCE POINT COMPUTE

CANCEL

Note that even if the job is completed, you can still go back to the Processing Analyzer, click the gcp symbol in the upper left, change the gpcs and reprocess. At this point, online users will incur additional cost.



PROCESS

After final processing, products are ready for viewing and downstream uses

IMAGE UPLOAD	M VIEW		05/28/19 09:56AM
BUNDLE ADJUSTMENT	NVIEW	🛓 DOWNLOAD	05/28/19 09:56AM
DENSE POINT CLOUD	NVIEW	🛃 DOWNLOAD	05/28/19 10:31AM
SURFACE MODEL	Aview	🛃 DOWNLOAD	05/28/19 10:31AM
DIGITAL ELEVATION MODEL	NVIEW	🛓 DOWNLOAD	05/28/19 10:31AM
ORTHOIMAGE	NVIEW	🛓 DOWNLOAD	05/28/19 10:31AM
PROJECT REPORT		🛓 DOWNLOAD	05/28/19 10:31AM

