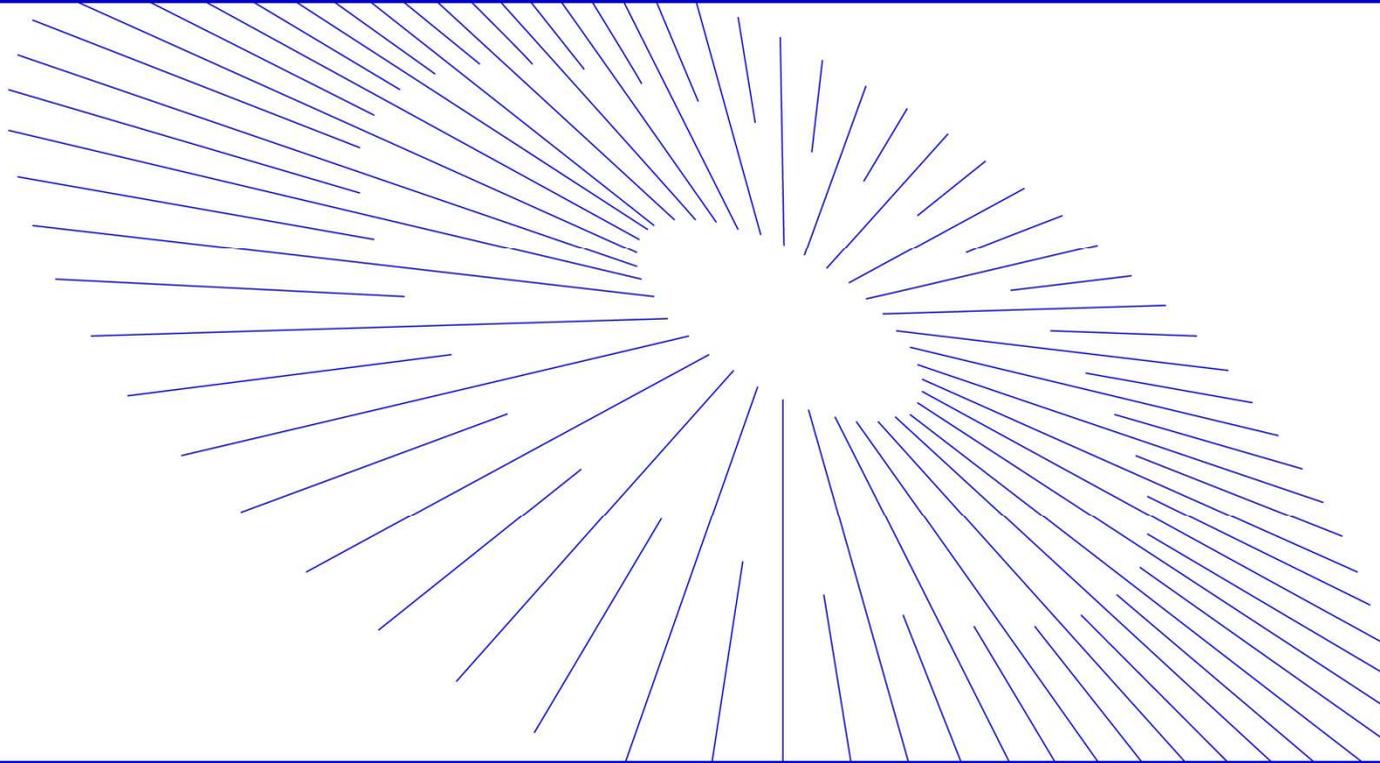


Edge2 V6.1 Release Note

2024/08/19



Edge2 v6.1 Update item

Application	Development items	Release Area	Contents/Use case	Release /Ver	Release/Date	UI Image
New feature	Improved object removal performance	ALL	Add a setting to remove/retain blue sheets, etc. on site. Please refer to the UI image for the colors of sheets that can be removed.	V6.1	8月21日	P3
	Flight map display (Features for Japan)	ALL	This document will be used for i-contraction submitted document in Japan and will export document to USB that proves that an 80% overlap rate is guaranteed.	V6.1	8月21日	P4
	Point cloud density output of 160 points/m2	ALL	Add a mode with a point cloud density of approximately 160 points/m2	V6.1	8月21日	P5
	3D accuracy check csv and camera calibration csv for i-con accuracy verification output are now in Japanese. (Features for Japan)	ALL	The content of the i-con report will follow the language setting and will be output in Japanese if you set Japanese.	V6.1	8月21日	None
	Ability to make the top surface of the Edge2 accuracy check point even in RTK processing	ALL	Edge2 setup location can now be used as accuracy check point in the same way as PPK, even when RTK processing is performed.	V6.1	8月21日	None
Performance Improvement	Improved accuracy in untextured areas	ALL	By improving SFM performance addressing a situation in which texture could not be detected properly in black soil areas in some on sites, resulting in point cloud will doubling to prevents.	V6.1	8月21日	None
	PCG94 compatible (for Australia)	ALL	Support for new EPSG codes	V6.1	8月21日	None

(Unnecessary item removal setting) With the current EDGE2 performance If you select (retain) the curing sheets, (green and blue sheets) will not be removed and will remain .
※Further AI training is required to recognize sheets of other colors.

Please select the categories to be removed

Category	Remove or retain
Soil	<input checked="" type="checkbox"/>
Short grasses	<input type="checkbox"/>
Road surface	<input type="checkbox"/>
Curing sheet	<input type="checkbox"/>

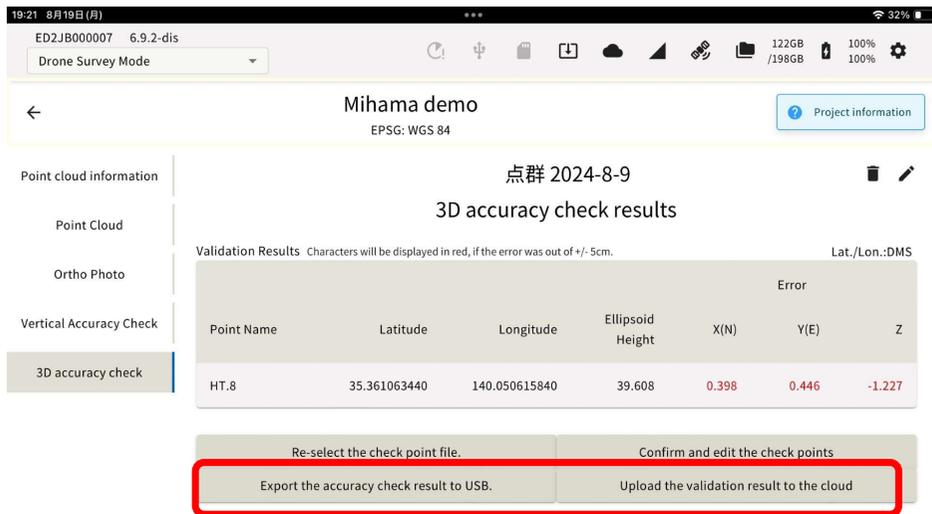
Overwrite the above settings as project default

Cancel



The 3D accuracy check result output to USB or the cloud can now output a flight map as a collateral document with a lap rate of 80%.
 *(output as a png image file)

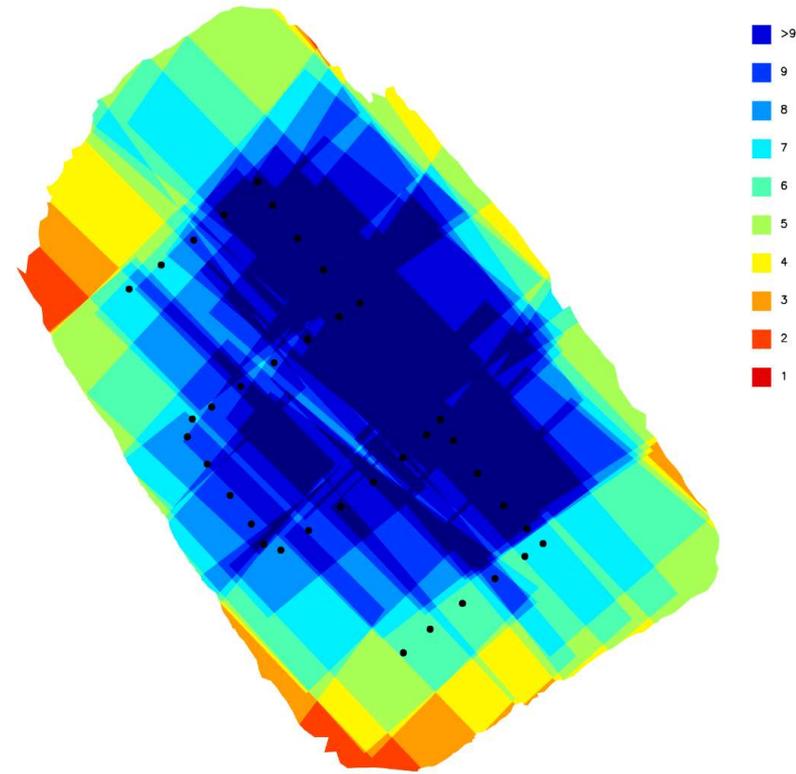
The 80% overlap rate requires that the measurement area is covered by at least 9 colors as shown below.



The screenshot shows the '3D accuracy check results' screen. It includes a table with the following data:

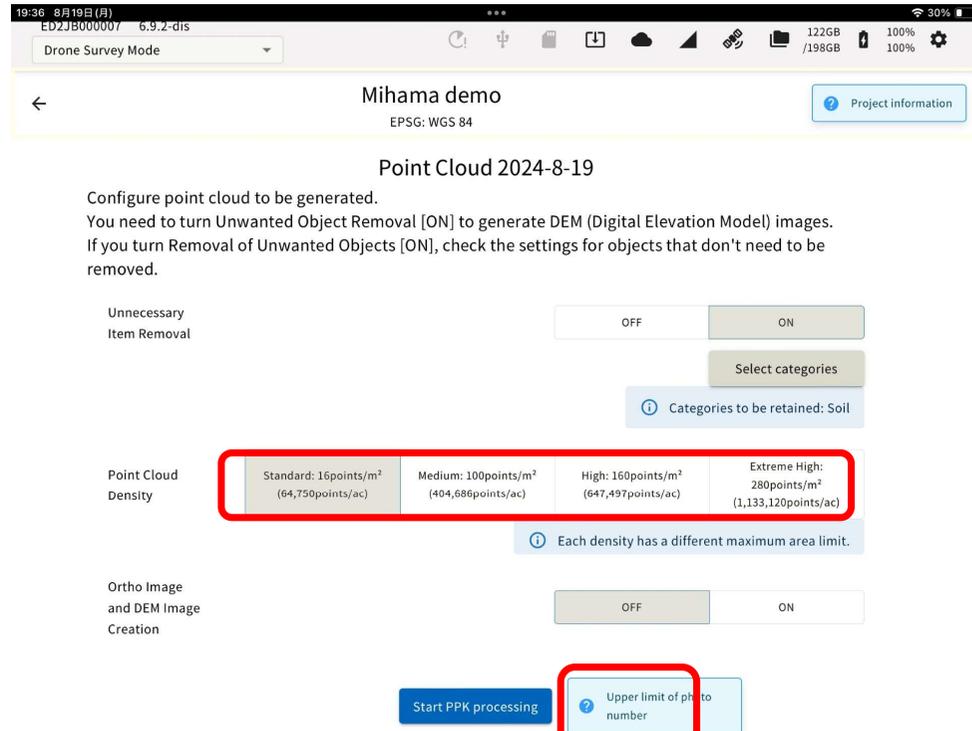
Point Name	Latitude	Longitude	Ellipsoid Height	Error		
				X(N)	Y(E)	Z
HT.8	35.361063440	140.050615840	39.608	0.398	0.446	-1.227

At the bottom of the screen, there are four buttons: 'Re-select the check point file.', 'Confirm and edit the check points', 'Export the accuracy check result to USB.', and 'Upload the validation result to the cloud'. The last two buttons are highlighted with a red border.



160 [points/m²] has been added to the point-cloud settings menu to output four densities.

- Introduction of new point cloud density
- Introduction of intermediate density between conventional ultra-high density and high density
- Introduced 160 [points/m²] as a new high density
- The introduction of this new high density allows for a larger area to be covered in a single generation process while maintaining high density standards.



Upper limit of photo number

If the photo numbers of the flight data exceeds the upper limit, the point cloud generation could fail.

Point Cloud 2024-8-19 * In case if GSD: 1.0cm

Point Cloud Density	Standard density	Max. photo numbers	
		Ortho photo · DEM ON	Ortho photo · DEM OFF
Standard: 16points/m ² (64,750points/ac)		5000	5000
Medium: 100points/m ² (404,686points/ac)		1500	3000
High: 160points/m ² (647,497points/ac)		937	1875
Extreme High: 280points/m ² (1,133,120points/ac)		500	1000

Close

• Update Procedure

■ v6.1

OTA Name : “6.9.2”

FW VERSION : ” 6.9.2”

OS VERSION : ”4.1.5 “

※ We recommend updating the IPAD operating system to IOS 17.5 or higher.

(1) Turn on the Edge 2 and make sure you are online on the Internet with the I-pad.
Wired LAN is recommended since the data size may be up to a gigabyte.

(2) Please wait for the application to finish downloading.

In a good network environment, such as a wired LAN connection, it will take approximately 30 minutes.

For LTE, it may take 1 hour or more.

By good internet connection, we mean a downstream speed of around 50Mbps.

If the internet connection is poor, the update may take around 3 to 4 hours, and in some cases, considerably longer.

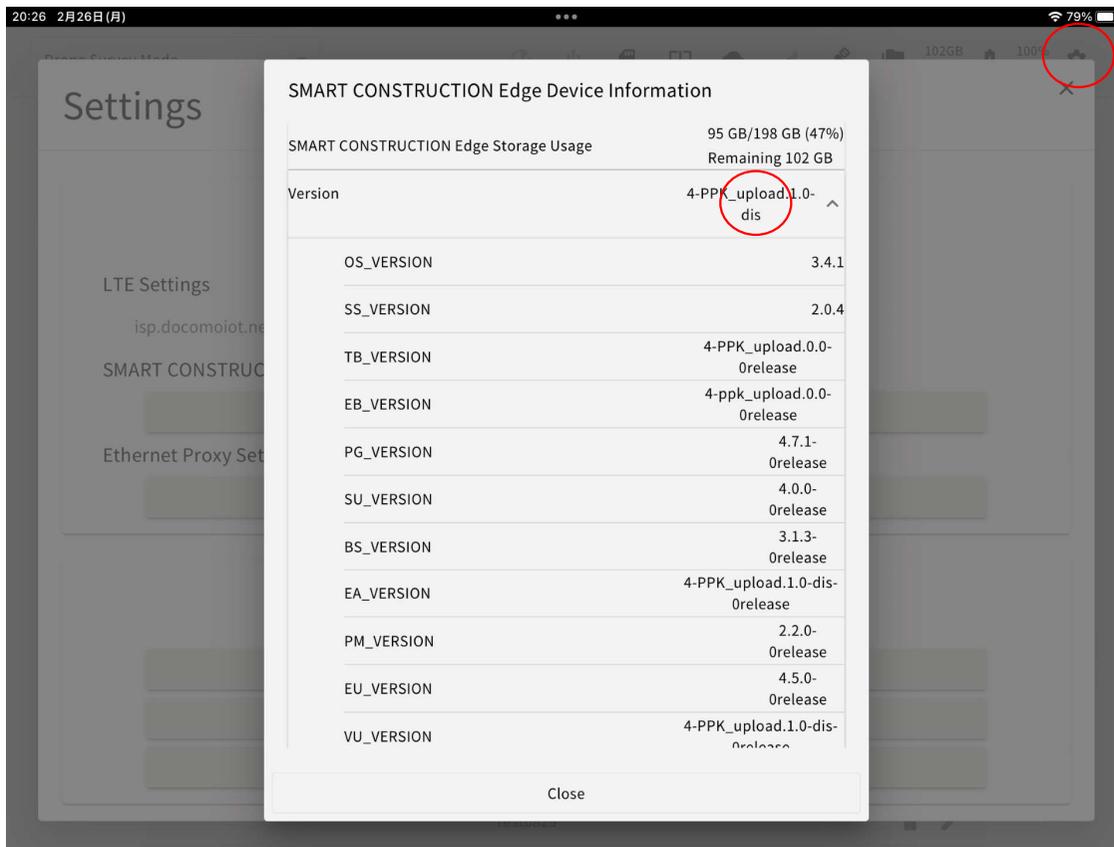


(3) Turn power off/on

Check the Firmware version. Go to the Settings screen -> SMART CONSTRUCTION

Edge Device information, Confirm that the version is "6.9.2". If not, start over from

(1). If it is, proceed to (4).



(4) Please wait for the OS to finish downloading.

In a good network environment 15 minutes for wired LAN connection, etc.; 30 minutes or more for LTE, etc.

(5) Turn power OFF/ON

Check the OS version. Go to the Settings screen -> SMART CONSTRUCTION Edge Device information, Confirm that the version is "4. 1. 5 ".If not, start over from (4). If the OS Ver is confirmed, you are done!

