Edge2 V8/V9 Release Note 2025/03/12





# Keartнerain Edge2 v8 Update item (Scheduled to be released on March. 12)

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Application	Development items	Contents/Use case	UI Image
	Increased point cloud density around the Check Point	When verifying horizontal and vertical accuracy, the density of the point cloud around the Check Point has been increased to make it easier to determine the center and to more accurately check XYZ errors.	P 4
	Display of storage capacity used by each project	Storage capacity used by each project is now displayed.	P5
New feature	Show only relevant geoid codes	When entering an EPSG code, after entering the horizontal direction, only the related EPSG is displayed when selecting the vertical direction.	P 6
/Performance Improvement	IMEI number display	IMEI number is now displayed in the settings menu.	P7
	New UI for unnecessary object removal	Changed the UI for unnecessary object removal to make it easier to determine	P 8
	Add EPSG	Add New Zealand EPSG	なし

### **EARTHBRAIN** Edge2 v9 Update item (Scheduled to be released on March. 12)

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Application	Development items	Contents/Use case	UI Image
	SFM processing for GCP only (only some Drone are supported)	This is a preliminary functional update based on future updates, and will enable GCP-only SFM processing for P4RTK, M3E, and M300. We have confirmed the accuracy, but if there is no particular need for GCP-only processing, we recommend normal PPK/RTK or +GCP processing for the models listed above at this time.	P 9
Nowfooturo	GCP accuracy check function	If GCPs are used for SFM processing, the center accuracy of the selected GCPs can be checked after processing	P10
/Performance Improvement	Vertical offset notation change	The specifications have been changed to display the accuracy results after vertical offset.	P11
	Added flow control and transmission interval when streaming from external radio	Flow control ON/OFF and transmission interval items have been added to suit the digital radio used.	p 1 2
	WIFI dongle supported	From version 9 onwards, all internet communication functions can be used with a WiFi dongle without a SIM card.	p 13-14
	V9 upload procedure	OTA is no longer an automatic download, but rather a notification to the user that an update is available and the download begins upon user action.	p15

### Ж ЕАRTHBRAIN Increased point cloud density around the Check Point

When verifying horizontal and vertical accuracy, the density of the point cloud around the Check Point has been increased to make it easier to determine the center and to more accurately check XYZ errors.



### Ж EARTHBRAIN Display of storage capacity used by each project

Storage capacity used by each project is now displayed.

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	Generate a ne	w project on SM	ART CONST	RUCTION Da	ashboard.		
	Import a pro	oject from SMAR	T CONSTRU	JCTION Dasł	nboard.		
O Generate a new pro	ject without connecting to	o SMART CONST	RUCTION D	ashboard.			
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グループZ 美浜テスト現場 <mark>◎ Smart Construction</mark> Dashboard	3.7GB	Î	/
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Miura	58.9GB	Î	/
Tesm350	34.7GB	Î	1
マゲ	1.5GB	Î	

#### **Show only relevant geoid codes**

When entering an EPSG code, after entering the horizontal direction, only the related EPSG is displayed when selecting the vertical direction.

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IMEI number is now displayed in the settings menu.

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Settings						×
		Cit	ui			
		Network	Settings			
LTE Settings						
IMEI No. 86 922304	136862 0					
isp.docomoiot.net	Delete	Edit				
SMART CONSTRUCTION	Edge's Wi-Fi Pas	sphrase Setti	ngs			
		Cha	nge			
Wi-Fi Client Mode Settin	g					
Ryo1124 Enabled	Delete	Edit				
Ethernet Proxy Settings						
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### **Кактнвкано** New UI for unnecessary object removal

Changed the UI for unnecessary object removal to make it easier to determine

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÷	Ari Local coordinate syste	em(meters)		Project information
	Point Clo	oud 2025-3-17		
Configure point clou You need to turn Ur	Select the excluded categor	ies of unwanted obje	ect removal.	l) images.
Unnecessary Item Re (If you turn it [ON], Please	Soil	Remove	Retain	ON
	Short grasses	Remove	Retain	ct categories
Point Cloud	Road surface	Remove	Retain	e retained: Soil
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Ortho Image and DEN	Cancel		ОК	ON
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This is a preliminary functional update based on future updates and will enable GCP-only SFM processing for P4RTK, M3E, and M300. We have confirmed the accuracy, but if there is no particular need for GCP-only processing, we recommend normal PPK/RTK or +GCP processing for the models listed above at this time.

Drone Survey Mode	¥		• • •	/198GB ■ 100% ♥
	Point Cloud Generat	Ari		Project information
Data Generation	Point Cloud Name	Point Cloud 2025-3-17		JS.
PPK Logging		O Use PPK only	+GCP	Generated
Generate Point Cloud	Generation Method	O Use RTK flight data	+GCP	
Reservation of the point- generation		O Use GCP only		
Generated Data Manag	Destination of the	SMART CONSTRUCTION Edge		
Send Generated Data	generation process	SMART CONSTRUCTION Cloud		
Export Generated Dat	Send to the cloud	展示会河川	•	
Manage PPK Log	Without a license of SM/	RT CONSTRUCTION Cloud SfM, you cannot us	e point-cloud	
Flight data manageme		generation on the cloud.		
	Cancel			

### **Ж EARTHBRAIN** GCP accuracy check function

If GCPs are used for SFM processing, the center accuracy of the selected GCPs can be checked after processing

When GCP is used for processing A GCP accuracy check item has been added after processing Selecting GCP on the screen will transition the screen



Select a point that you think is the center of the GCP and scroll down the screen to display the residual between the GCP center and the coordinates.



The specifications have been changed to display the accuracy results after vertical offset.





Flow control ON/OFF and transmission interval items have been added to suit the digital radio used.

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月)				0		
	EPSG: JGD201 Vertical Refe	Miha 1 / Japan Plane rence: JGD2011	Recta (verti	ngular CS IX cal) height		Projec
GCP3 (Known point)	Config	ure Base S	Stat	ion Mode settin	igs.	Lat./Lon.:DMS
X(N)	Y(E)	Z		Latitude	Longitude	Ellipsoid Height
-234341.779	-6178.539	37.244		33.531476173	139.455953073	37.244
		LTE	Wi-I	Fi External Radio		
Format	CMR		•	Satellites used for distribution	Number of satellites	Usage Setting
Serial communication speed (bps)	38400		•	GPS	10	
Data flow Control	OFF	ON		CLONASS	6	
Transmission Interval (seconds)	1		•	Number o	f satellites in use:	35
Pole Height (up to 3 decimal places)		meters	•			
Measuring method of the pole height						

**Ж EARTHBRAIN** WIFI dongle setup

Step1.

. Tap the Add WI-FI Client Mode Settings icon in the Edge2 Settings menu and enter the SSID and password.

		Network Settin	gs	
L Wi-Fi	Client Mode Setting			
En	nable Wi-Fi Client mode			
	Network name	TP-Link_7596		
W.	Password	•••••		
E	Cancel		Apply	
		Change		

Step2.
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. Confirm that the settings have been enable

	Netw	vork Settings	
LTE Settings			
isp.docomoiot.net	Delete Edit		
SMART CONSTRUCTION	Edge's Wi-Fi Passphrase	Settings	
		Change	
Wi-Fi Client Mode Setti	ıg		
TP-Link_7596 Enabl	Delete Ed	lit	
Ethernet Proxy Setting			
		change	

- Step3.
- Insert the WIFI dongle into Edge 2 and wait for 30sec, after that make sure internet connection.
- If you are having problems with your internet connection, please

restart Edge 2.





■v9 hotfix1 OTA名称: "9.3.3 FW VERSION:" 9.3.3″ OS VERSION: "6.2.0″

\*We recommend updating your iPad's OS to iOS 18.2 or later.

<Update procedure for v7 and later>

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.

- After the update files have finished downloading over the network, press the restart button.

- When the green LED stops flashing and stays lit, the update, including the OS, is complete.



## **\*** EARTHBRAIN **Note on V6 to V8 update** We will post it again to warn you 16

#### **Background: Defects Related to Battery Charging**

There have been several instances where the battery could not be recharged. To address this, we will update the battery control microcontroller. The upgrade process will proceed as follows:

1.The application will be downloaded as usual.2.After the download is complete (indicated by an orange arrow), please turn the power OFF and then ON.2.The OS download will be give

#### 3.The OS download will begin.

 Once the OS download is complete, a pop-up windowwill appear on the right.

4.When the AC adapter is connected and the restart button is pressed, the red LED on the 4-way indicator will light up temporarily. Please wait for the process to finish.

• When the power turns off, restart as usual to complete the update.

#### **Important Notes:**

•If AC power is not connected during step 4, please turn the power off and on as usual. However, the sub-microcontroller will not be updated in this case.

•The sub-microcontroller update will occur when the power is turned off after AC power has been connected while the device is on.

#### Ready to update. Please restart SMART CONSTRUCTION Edge immediately.

\* Connect the AC adopter during the update.
\* Do not turn off SMART CONSTRUCTION Edge during the update.

\* Update takes around 5 minutes.

\* If the Error/Update LED at front of the main body was lit solid, then do not turn off the power.

If you turn on the unit next time and the unit was connected to the internet, application will be updated.

**Reboot later**