Edge2 V6 Release Note 2024/06/26 note ver. 1.1







Edge2 v6 Update item

Application	Development items	Release Area	Contents/Use case	Releas e/Ver		UI Image
	Improved object removal performance		Add a setting to remove or not remove blue sheets, etc. in your site. The colors of sheets that can be removed are explained in the reference UI image.	v6- hotfix	8/21	None yet.
	Flight map display	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- hotfix	8/21	None yet.
	Point cloud density output of 120 points/m2		Add a mode with a point cloud density of approximately 120 points/m2	v6- hotfix	8/21	None yet.
New feature	Upload 3D accuracy check reports and camera calibration parameters to Dashboard	ALL	Currently, i-con reports output is possible via USB, but in this Ver, possible to transfer camera calibration and accuracy check reports to Groupware. This function mainly meets the needs of the Japanese market.	V6	7/10	P4
	Automated processing from PPK to Upload-to-Dashboard without manual intervention	ALL	Currently, automatic processing from PPK to point cloud generation and uploading of generated data can be done automatically, including queuing. However, if "automated processing from PPK to Upload-to-Dashboard without manual intervention" can be performed a series of processes can be performed in the middle of the night, eliminating waiting time for users.		7/10	P5



Edge2 v6 Update item

New feature	Rename point cloud after point cloud generation	ALL	Point cloud names can now be changed even after the point cloud has been generated	V6	7/10	P6
	Latitude and longitude display to 9 decimal places	ALL	After the update, the display will be 9 digits.	V6	7/10	P7
	Numerical selection of object removal	ALL	The intensity setting of object removal is currently controlled by a slider, but the slider is sometimes difficult to adjust, so the intensity can now be set numerically.	V6	7/10	P8
	Full display of flight data names	ALL	Display the flight name as well as the site name when displaying the point cloud. Full display is now possible for areas where the point cloud name is too long to be fully displayed.	V6	7/10	P9
	Addition of point cloud name display	ALL	User-defined point cloud names can now be displayed on the point cloud display screen and on the screen during point cloud processing.	V6	7/10	P10
	Processing time display (actual time taken)	ALL	The time taken for point cloud processing and updating to cloud can now be checked later.	V6	7/10	P11
	Inherit points from Dashboard	ALL	Project inheritance from Dashboard and GC3 parameter inheritance function already exists, but it is now possible to import the points from Dashboard.	V6	7/10	P12
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-hotfix	8/21	None ye

EARTHBRAIN • Upload 3D accuracy check reports and camera calibration parameters to Dashboard

- ① Tap "3D accuracy check"
- ② Tap "Upload the validation result to the cloud"



 Note:
 <th

- ③ Select your data.
- ④ Tap "Send"



Groupware \rightarrow In the SC_APP folder \rightarrow It will be saved in the SCEDGE folder

EARTHBRAIN • Automated processing from PPK to Upload-to-Dashboard without manual intervention

2:49 7月2日(火) ED2JB000007 6.7.0-dis	Ċ! ŵ		178GB 100 /198GB 93	≈ 73% □)	④ Select "Ne	ext" to move	e to the flig
Drone Survey Mode	Mihama demo EPSG: WGS 84		Project inf		17:16 7月2日(火) ED2JB000007 6:7.0-dis Drone Survey Mode	×	 C: 4 🛙
Data Generation	Point Cloud Name	Processing Start Time	Status		\		ama demo PSG: WGS 84
PPK Logging	点群 2024-7-1	2024/07/01 17:00:54	✓ Generated	1	Data Generation	Point Cloud Genera	tion
Generate Point Cloud					PPK Logging Generate Point Clour	Point Cloud Name	Point Cloud 2024-7-2
Reservation of the point-cloud generation Generated Data Management					Reservation of the point- generation	Generation Method	 Use PPK only Use RTK flight data
Send Generated Data					Generated Data Manag	Send to the cloud	SCサポートD_Sin
Export Generated Data to USB					Export Generated Data to	If you make a reservation	rvation of point-cloud generat n, the point-cloud generation v evious point-cloud generation
					Manage PPK Log	Cancel	

① Tap "Reservation of the point-cloud generation"

%If there is no network connection via wired LAN or LTE at the time of SC Edge2 startup, items (2) and (3) will not be displayed.

③ Select a project to send. o the flight data selection screen.

📋 🕒 🌰 🔺 🤣 🖿 1786B 🗴 100% 🌣

⁽²⁾ Tap 'Send to the cloud''

* **EARTHBRAIN** • Rename point cloud after point cloud generation



① Press the pen icon at the right end of the point cloud name display.

② Enter a new point cloud name.

③ Tap "Change"

ED2JB000007 6.7.0-dis Drone Survey Mode		ф 🗰 😃 🌰 🔺	🤣 🖿 178GB	100% 100%
<	Mihama demo EPSG: WGS 84)		
Data Generation	Point Cloud Name	Processing Start Time	Status	
PPK Logging	点群 2024-7-1	2024/07/01 17:00:54	✓ Generated	1
Generate Point Cloud			-	
Reservation of the point-	nge the point cloud name point cloud name	7-1	Generated	-
Generated Data Manag			-	
Send Generated Data	Cancel	Change		
Export Generated Data to USB				
Manage PPK Log				

* EARTHBRAIN • Latitude and longitude display to 9 decimal places

1 Latitude and longitude displays have been changed to 9 decimal places.

9:34 7月2日(火)							ᅙ 52% 🔲
ED2JB000007 6.7.0-dis Base Station Mode		<u>e</u> 4	(• 4	es 🖻	178GB /198GB	100%
÷	Mihama d EPSG: WGS					💡 Proj	ect information
Pc	Configure Base	e Statior	n Mode se	ttings. Lat./Lon.:I	DMS		
	Latitude	1	Longitude	Ellipsoid Heig	nt		
	35.360997286	140.0	050495301	9.60	08		
	LTE	Wi-Fi	External Rac	lio			
	Number o	of satellite	s in use: 36				
	GPS:		10				
	QZSS:		4				
	GLONASS	:	7				
	Galileo:		7				
	BeiDou:		8				
	Sta	art Broadcas	sting				

* EARTHBRAIN • Numerical selection of object removal

The intensity of object removal can now be changed with the +/- buttons as well as the slide bar.



19:42

① Flight data names are now displayed on multiple lines without being cut off in the middle.

9:42 7月2日(火)	000		? 52%
ED2JB000007 6.7.0-dis	C! ‡		178GB 100%
Drone Survey Mode	• C: T		/198GB ₩ 100% ❤
÷	Unno		Project information
	Local coordinate system(meters	5)	
Point cloud information		点群 2024-6-27	i /
Point Cloud	Cal	culation setting	^
Unnecessary Item Removal	Unnecessary Item Removal	ON	
	Categories to be retained	Soil	
Vertical Accuracy Check	Point Cloud Density	High: 100points/m ² (4	104,696points/ac)
1.	Ortho Image and DEM Image Creation	OFF	
	РРК Р	Processing Results	^
	PPK P Flight path of the selected drone flight is displayed. Regardless of the selected state, all data below is us cloud generation.		^ te: 100% DOP: -
	Flight path of the selected drone flight is displayed. Regardless of the selected state, all data below is us cloud generation.		

К ЕАКТНВКАІП • Addition of point cloud name display

Select one of the screens on the far left.
 Point cloud name display is added.



EARTHBRAIN • Processing time display (actual time taken)

10:28 7月3日

①Tap "Point cloud information"



② Scroll down to "Generated Information" is displayed

l Accuracy Check		K Processin	g Results
	Flight path of the selected drone flight is disp Regardless of the selected state, all data belo cloud generation.		PPK fix rate: 100% DOP: 0.890
	Flight Data	Fix Rate	
	✓ 2024-07-01_07-46-36- ç¾ æµ è¨è¨	100%	
	2		
(Ge	eneration info	ormation ^
Í	Ge Starting date & time of the point clou process	d generation	ormation ^
	Starting date & time of the point clou	d generation	
	Starting date & time of the point clou process Processing end date & time of the poi	d generation	2024/07/01 17:00:54
	Starting date & time of the point clou process Processing end date & time of the poi generation	d generation 2 nt cloud 2	2024/07/01 17:00:54 2024/07/01 17:07:38

EARTHBRAIN Inherit points from Dashboard



The dashboard icon is displayed for projects linked to the dashboard,



Edge2 v6 Update Procedure

• Update Procedure

```
■v6-RC1.1
OTA Name : "v6-RC1.1"
FW VERSION : "6.7.1″
OS VERSION : "4.1.4 "
```

(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.



Edge2 v6 Update Procedure

14

(3) Turn power off/on

Check the Firmware version. Go to the Settings screen -> SMART CONSTRUCTION Edge Device information, Confirm that the version is "6.7.1". If not, start over from (1). If it is, proceed to (4).

Settings	SMART CONSTRUCTION Edge Device Info	Sindton	
U	SMART CONSTRUCTION Edge Storage Usage	95 GB/198 GB (47%) Remaining 102 GB	
	Version	4-PPI(_upload)1.0- dis	
LTE Cattings	OS_VERSION	3.4.1	
LTE Settings isp.docomoiot.ne	SS_VERSION	2.0.4	
SMART CONSTRUC	TB_VERSION	4-PPK_upload.0.0- 0release	
	EB_VERSION	4-ppk_upload.0.0- 0release	
Ethernet Proxy Set	PG_VERSION	4.7.1- Orelease	
	SU_VERSION	4.0.0- Orelease	
	BS_VERSION	3.1.3- Orelease	
	EA_VERSION	4-PPK_upload.1.0-dis- 0release	
-	PM_VERSION	2.2.0- Orelease	
	EU_VERSION	4.5.0- Orelease	
	VU_VERSION	4-PPK_upload.1.0-dis-	



Edge2 v6 Update Procedure

(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. 4". If not, start over from (4). If the OS Ver is confirmed, you are done!

20:26 2月26日(月)	•••		🗢 79% 🔲
Drane Conser Made	ist and a	m 🔺 🤞	102GB # 100% #
Settings	SMART CONSTRUCTION Edge Device Info	ormation	×
occurgo	SMART CONSTRUCTION Edge Storage Usage	95 GB/198 GB (47%) Remaining 102 GB	
	Version	4-PPK_upload.1.0- dis	
LTC Cathings	OS_VERSION	3.4.1	
LTE Settings isp.docomoiot.ne	SS_VERSION	2.0.4	
SMART CONSTRUC	TB_VERSION	4-PPK_upload.0.0- 0release	
	EB_VERSION	4-ppk_upload.0.0- 0release	
Ethernet Proxy Set	PG_VERSION	4.7.1- Orelease	
	SU_VERSION	4.0.0- Orelease	
	BS_VERSION	3.1.3- Orelease	
	EA_VERSION	4-PPK_upload.1.0-dis- 0release	
and the second second	PM_VERSION	2.2.0- Orelease	_
	EU_VERSION	4.5.0- Orelease	
	VU_VERSION	4-PPK_upload.1.0-dis-	
	Close		
	163(0022		- /