# iX Flight Pro

# **Operation Guide**



Rev 3.0



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#### Warning

- iX Flight Pro is not designed, tested, or certified as a primary flight guidance system.
- Use iX Flight Pro only in VFR flight conditions.
- While using iX Flight Pro, the pilot is responsible for maintaining safe altitude and safe distance from obstacles.

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### 1. Introduction

#### 1.1. Scope

This manual describes how to use the iX Flight Pro software as follows:

- Section 2 Product Overview.
- Section 3 Managing Projects.
- Section 4 Project Tasks
- Section 5 Getting to Know the Flight Interface
- Section 6 Recommended Flight Operation Procedure.
- Section 7 Post Flight Operations
- Appendix A Configuring Settings
- Appendix B Exporting and Importing Settings
- Appendix C Using the Simulator
- Appendix D Requesting and Installing a License

#### **1.2. Applicable Documents**

Item	Manual
Phase One Controllers	Connecting to a Phase One Controller Using Remote
	Desktop Connection
Phase One iX Plan	iX Plan Operation Guide
Phase One iX Process	iX Process Operation Guide
Phase One iX Capture	iX Capture User Guide
Phase One PAS 150MP MK3	PAS 150MP Operation Guide MK3
Phase One PAS 280MP MK3	PAS 280MP Operation Guide MK3
Phase One PAS 880	PAS 880 Operation Guide
Phase One PAS Pana	PAS Pana Operation Guide



### 2. Product Overview

#### 2.1. Description

iX Flight Pro, integrated in certain PAS controllers, contains all functions required for aerial photography flight management and image collection, from engine start to post-landing. It serves as a flight management center, interfacing with all hardware such as cameras, Applanix GNSS/IMU, SOMAG mount, and pilot/operator monitors.

The flight director module provides position altitude and speed commands to the pilot based on mission design and planned tolerances. This easy-to-follow flight director graphical display enables the execution of long missions with low pilot fatigue, resulting in higher mission safety and quality. The operator's monitor aids in mission and image collection management. A graphical collection summary ensures that all images are captured at the correct locations and quality within the required speed and height tolerances.

iX Flight Pro imports flight plans created in iX Plan.

Continuously displayed images and exposure value graphs allow the operator to manage camera parameters for best image acquisitions. Post-flight reports are used to decide whether the mission was successfully completed.

#### 2.2. Requirements

iX Flight Pro is preinstalled on Phase One controllers when a PAS solution is ordered by customers.

#### Note

This version of iX Flight Pro has been tested on and is optimized for use on:

- iX Controller MK6
- PAS POD controller



### 3. Managing Projects

#### 3.1. Importing a Project from iX Plan

#### To import a flight plan from iX Plan:

1. In the Home window, tap Add Project.



2. Navigate to the folder containing the required iX Plan project and tap **Select Folder**.



- 3. Select an area of interest shapefile. This file has the same file name that was used during planning to define the project area.
- 4. Click OK.

Please Select Area	Of Interest Shapefile
If there is no area of interest pla	ProjectArea ease leave the box empty
	ОК



3. Managing Projects

The project is imported and added to the Home window project list.



#### 3.2. Removing Projects

To remove a flight plan from the Home window projects list:

1. In the Home window, tap the required project and tap **Remove Project**.



#### 2. Tap **Yes**.



The project is removed from the Home window project list. No files are deleted from the hard drive.



3. Managing Projects

#### 3.3. Returning to the Home Window

To return to the Home window from the Project window:

1. Tap Back to Project List.





### 4. Project Tasks

Before commencing a flight, you must validate your system configuration and plan the upcoming mission, as described in this section.

### 4.1. Performing a Preflight Check

The preflight check validates that the configuration of the actual connected system matches the configuration defined in iX Flight Pro. If there are discrepancies, relevant warnings appear detailing the issues. You can select which Items (such as camera system, flight plan, GNSS/GPS) to validate.

#### To perform a preflight check:

1. Tap the required project and tap **Open Project**.

rojects:	Owen Project	
Oblique 12.5 GSD5 3500 Kfar vitkin 150621 Date created: 6/27/2022 752 23 AM Date Modified: 3/15/2022 2:09:44 PM	Add Project	
Post Bight Report Available		
SS120-300mm Hadera Date created: 8/29/2022 2:1531 PM Date Modified: 8/28/2022 2:1534 PM	Remove Project	
	Disgnostics Loga	
	License	
	Settings	

#### 2. Tap Preflight Check.



3. Select the checkboxes for the items you want to validate and tap **Start Testing**.

If there are any issues, relevant warnings appear.





4. To view details for each group of items, tap the item then tap **More info.** 



The details for the selected group appear. If there are faults, correct them according to the information displayed.

#### 5. Tap Close.

More Info		
Capturing Enabled	Yes	
Connected Cameras	3 (5)	(X)
MM012009		$\smile$
Connection type	USB 3	
Unsaved Images	0	
Ready For Capture	Yes	
Disk Free Space	376.148 GB / 2170 files	Update
MM011173		
Connection type	U5B 3	
Unsaved Images	0	
Ready For Capture	Yes	
Disk Free Space	392.789 GB / 2266 files	Update
MM013007		
Connection type	USB 3	
Unsaved Images	0	
Ready For Capture	Yes	
Disk From Space	376.148 GB / 2170 files	Upclate
	~	

6. Tap **Close** to display the Project window.



### 4.2. Upcoming Mission Activation

After you open the required project, you can plan an upcoming flight through two main methods:

Selecting all Capture Points for an Upcoming Flight (default setting when a project is opened) - if all capture points are selected, the Fly Entire Plan button appears.





#### Note

Flight plans that have more capture points than the value set in Large Flight Plan Threshold display a line-centric user interface as shown following:





• Selecting Specific Lines and/or Capture Points for an Upcoming Flight - if only specific lines or capture points are selected, the **Fly XX Lines** button appears.

For details, see Section 4.2.2 - Selecting Specific Lines and/or Capture Points for an Upcoming Flight.

i280 calib 5 gsd	• Ci	apture	d 🔴	Untak	en 🦲	Sele	cted Fo	or Flyin	g 🥚	Auton	natica	Ily Selected For Flying	Fly	4 Lines
	u	L2	L3	L4	L5	L6	L7	L8 L	9 1	.10 L1	1 L1	12 L13	Pre	eflight Check
	1	1	1	1	1	1	1	1	1	1 1		1 1	Po	stflight Report
	2	2	2	2	2	2	2	2	2	2 2		2 2		
	-	3	3	3	4	3	3	4	4				м	issions 10 Selected
	5	5	5	5	5	5	5	5	5	5 5		5 5		Unselect All
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	7	7	7	7	7	7	7	7	7	7 7		7 7		
	8	8	8	8	8	8	8	8	в	8 8	8	3 8		2023-05-17 14.51.25 GMT+0000
										9 9	9	9		2023-05-17 14 44 49 GMT+0000
										10 10	1	0 10		
13 <b>1</b> 3 <b>1</b>										11 11	1	1 11		
														Delete Archive
													Se	lect All Capture Points
													Se	lect Untaken Capture Points
													Cle	ar Capture Points Selection
													Ва	ck To Project List
													Pa	use Project
													Fir	ish Project

#### Note

The lines and/or capture points that you select become the new flight plan for the upcoming mission when you tap Fly XX Lines or Fly Entire Plan.

Once you start flying the plan, you cannot add any other flight lines or capture points. to this mission. To add lines, you need to end the current iX Flight Pro mission and open a new mission by selecting the new lines and images you want to fly.



#### 4.2.1 Selecting/Clearing all Capture Points

#### To clear selected capture points:

1. Tap Clear Capture Points Selection.

280 calib 5 gsd		apture		Untal	ken 🤇	Sele	ected	For Fly	/ina	Au	tomati	ically s	Selected For Flying	Elv	9 Lines
		12	13	14	15	16	17	18	19	110	111	112	113		
			-	1			-	1	-		1	1	1	Pre	flight Check
	2	2	2	2	2	2	2	2	2	2	2	2	2	Pos	tflight Report
	3	3	3	3	3	3	3	3	3	3	3	3	3	Mi	ssions 0 Selected
	4	4	4	4	4	4	4	4	4	4	4	4	4		
	5	5	5	5	5	5	5	5	5	5	5	5	5		SEIECE AIT
	6	6	6	6	6	6	6	6	6	6	6	6	6		2023-05-17 15.16.13 GMT+0000
	7	7	7	7	7	7	7	7	7	7	7	7	7		2022-05-17 14 51 25 GMT+0000
· (*)/2 · · · · · · · · · · · · · · · · · · ·	8	8	8	8	8	8	8	8	8	8	8	8	8		2023-03-17 H.S.23 GMT+0000
										9	9	9	10		2023-05-17 14.44.49 GMT+0000
										11	11	11	11		
															Delete Archive
	1													Sele	ect All Capture Points
														Sel	ect Untaken Capture Points
	1														
														Clea	ar Capture Points Selection
	_													Par	k To Decional Link
														Dac	K TO FTOJECI LISC
														Pau	re Project
														Fau	ise rivjett
														Fini	ish Project

All capture points in the project are cleared.

w iX Flight Pro															>
PAS280 calib 5 gsd	• 0	apture	ed 🛑	Untal	ken (	Sel	ected	For Fly	ing	e Au	tomat	tically	Selected Fo	r Flying	Fly 0 Lines
	u	L2	L3	L4	L5	Lő	L7	LB	L9	L10	L11	L12	L13		Preflight Check
	1	1	1	1	1	1	1	1	1	1	1	1	1		Postflight Report
	3	3	3	3	3	3	3	3	3	3	3	3	3		Missions 0 Selected
	4	4	4	4	4	4	4	4	4	4	4	4	4		Select All
	5	5	5	5	5	5	5	5	5	5	5	5	5		
	6	6	6	6	6	6	6	6	6	6	6	6	6		2023-05-17 15.16.13 GMT+0000
	7	7	7	7	7	7	7	7	7	7	7	7	7		2023-05-17 14.51.25 GMT+0000
	L.	0	0	0	0	0	0	0	0	9	9	9	9		
										10	10	10	10		2023-05-17 14.44.49 GMT+0000
										11	11	11	11		
															Delete Archive
															Select All Capture Points
															Select Untaken Capture Points
															Clear Capture Points Selection
															Back To Project List
															Pause Project
															Finish Project

#### iX Flight Pro Operation Guide 4. Project Tasks

#### To select all capture points:

1. Tap Select All Capture Points.



All capture points in the project are selected.

w IX Flight Pro														×
PAS280 calib 5 gsd	• 0	apture	d 🔵	Unta	ken	Sele	ected	For Fl	ying	<mark>-</mark> Au	toma	tically	Selected For Flying	Fly Entire Plan
	u	L2	L3	14	LS	L6	L7	L8	L9	L10	111	L12	L13	Preflight Check
	1	1	1	1	1	1	1	1	1	1	1	1	1	Postflight Report
	3	3	3	3	3	3	3	3	3	3	3	3	3	Missions 0 Selected
	4	4	4	4	4	4	4	4	4	4	4	4	4	Select All
	6	6	6	6	6	6	6	6	6	6	6	6	6	2023-05-17 15.16.13 GMT+0000
	7	7	7	7	7	7	7	7	7	7	7	7	7	2023-05-17 14:51.25 GMT+0000
		8	8	8	8	ð	ŏ	8	×	9	8 9	9	9	
										10	10	10	10	2023-05-17 14,44,49 GM1+0000
										11	11	11	11	Delete Archive
														Select All Capture Points
														Select Untaken Capture Points
														Clear Capture Points Selection
														Back To Project List
														Pause Project
														Finish Project

#### 4.2.2 Selecting Specific Lines and/or Capture Points for an Upcoming Flight

There are several methods for selecting a subset of the capture points in a project, as described in this section.

#### Note

This section assumes you have already opened the required project.

#### 4.2.2.1 Manually Select Lines and/or Capture Points

#### To manually select capture points, use either of the following methods:

• Tap one or more flight lines:





#### Or

• Tap individual capture points:



#### Note

- Use the horizontal scroll bar under the capture points to view additional flight lines that are currently hidden.
- If you are also using a keyboard, pressing Shift selects all lines or capture points between the first and second tap.
- On the map, tap and drag the required capture points.



#### 4.2.2.2 Select Some or All Missions Based On Previous Missions

You can select some or all missions flown previously in order to see the untaken capture points and select them for flying.

#### Note

If the Missions box is grayed out, check that a refly plan is not selected.

To unselect a refly plan, tap it.



#### To select previous missions:

- 1. Under Missions, either:
  - Select the relevant previous missions (use the scroll bar to scroll through the list of missions):



#### • Select all missions:

	Ca	apture	d 🔴	Unta	ken 🤇	Sele	ected	For Fly	ring (	e Aut	omat	ically s	Selected For Flying	Fly	12 Lines	
	L1	12	B	L4	15	Lő	L7	LB	19	L10	L11	L12	L13	Pre	eflight Check	
	1	1	1	1	1	1	1	1	1	1	1	1	1	Po	stflight Report.	
	3	3	3	3	3	3	3	3	3	3	3	3	3	м	issions 10 Selecte	ed
	4	4	4	4	4	4	4	4	4	4	4	4	4	Б	Unselect A	UI
	5	5	5	5	5	5	5	5	5	5	5	5	5		2023-05-1	7 14.44.49 GMT+0000
	7	7	7	7	7	7	7	7	7	7	7	7	7			
	8	8	8	8	8	8	8	8	8	8	8	8	8	Ľ	2023-05-1	7 14.36.21 GMT+0000
A Free LUS										9	9	9	9	0	2023-05-1	7 14.35.31 GMT+0000
										10	10	10	10	 [F	2023-04-2	20 11 55 14 GMT+0000
										11	11	11	11		Delete	Archive
A TO SHOW AND A SHOW																
														Se	lect All Capture	Points
														Se	lect Untaken Ca	apture Points
														Cle	ear Capture Poir	nts Selection
														Ba Pa	ck To Project Li: use Project	ist

The status of the flight lines/capture points are updated according to the missions you selected as follows:



- Green: Captured the images for this capture point were successfully captured.
- Red: Untaken the images for this capture point have not yet been captured.

After you click Select Untaken Capture Points, the status of the flight lines/capture points are updated as follows:



- Yellow: Selected for Flying these points are included in the mission.
- Orange: Automatically Selected for Flying untaken capture points that are automatically selected for flying according to the Extra Points for Replanning parameter in iX Flight Pro system settings.



#### To clear the capture points selection:

#### 1. Tap Clear Capture Points Selection.

i280 calib 5 gsd	• G	apture	9 🔴	Untak	ken 😑	Sele	cted F	For Fly	ing	0 Au	tomat	ically	Selected For Flying	Fly 1	2 Lines	
	u	12	L3	14	LS	Lő	L7	L8	L9	L10	111	L12	L13	Prefi	light Check	
	1	1	1	1	1	1	1	1	1	1	1	1	1	Post	flight Report	
	3	3	3	3	3	3	3	3	3	з	3	3	3	Mise	sions 10 Selecte	d
	4	4	4	4	4	4	4	4	4	4	4	4	4	X	Unselect All	
	6	5	5	5	5	5	5	5	5	5	5	5	5	TX	2023-05-17	14.44.49 GMT+0000
	7	7	7	7	7	7	7	7	7	7	7	7	7		2023-05-17	14.36.21 GMT+0000
9 /8 / 5 8 8 10 strat 1 1 1 1 2 2	8	8	8	8	8	8	8	8	8	8	8	8	8			
										9	9	9	9		2023-05-17	14.35.31 GMT+0000
										11	11	11	11		2023-04-20	11 55 14 GMT+0000
															Delete	Archive
														Selec	ct All Capture	Points
														Selec	ct Untaken Caj	pture Points
														Clear	r Capture Poin	ts Selection
														Back	To Project Lis	t
														Paus	e Project	

The untaken capture points are displayed in red:



You can now select untaken capture points for flying as described above. To reselect all untaken capture points, tap **Select Untaken Capture Points**.



#### 4.2.2.3 Selecting an iX Process Subplan (Re-Fly)

You can select a subplan generated by iX Process, modify it as required and refly it.

#### Note

If the **Re-Fly** box is grayed out, clear any selected missions.





#### To select a refly subplan:

1. Under **Re-Fly**, select the required refly plan:



#### Note

Use the scroll bar to scroll through the list of refly plans.

14	14	14	Re-Fly	/	
15	15	15	0	Refly_06-12_13-41-36	Г
16	16	16		Refly_06-12_15-06-03	-
17	17	17		Refly 00-12 00-50-00	=
18	18	18		Kelly_03-12_00-50-08	

The flight lines/capture points to be flown are selected for flying (yellow) according to the refly plan you selected.

#### Note

You can select or clear capture points as described above.

#### 4.2.3 Mission Management Tasks

#### 4.2.3.1 Deleting Missions

#### To delete selected missions that appear in the open project:

1. Select the missions to delete and tap Delete.



#### iX Flight Pro Operation Guide

4. Project Tasks

#### 2. Confirm the action by tapping Yes.

acco cano o gad		🕒 Ca	pture	d 🔴	Unta	ken	<mark>)</mark> Sele	ected	For Fl	ying	😑 Au	tomat	ically	Selected Fo	r Flying	Fly Entire Plan	
		u	12	L3	L4	LS	L6	L7	L8	L9	L10	111	L12	L13		Preflight Check	1
		1	1	1	1	1	1	1	1	1	1	1	1	1		Postflight Report	
		3	3	3	3	3	3	3	3	3	3	3	3	3		Missions 2 Selected	
		4	4	4	4	4	4	4	4	4	4	4	4	4		Select All	
	1	6	6	6	6	6	6	6	6	6	6	6	6	6		2023-05-17 15.16.13	GMT+0000
		7	7	7	7	7	7	7	7	7	7	7	7	7		2023-05-17 14 51 25	GMT+0000
9 18 1 9 9 19 19 19 19 19 19 19 19 19 19 19		8	8	8	8	8	8	8	8	8	8	8	8				
							vvan							10		2023-05-17 14.44.49	GM1+0000
	Are y	you	sure	you	ı war	nt to	dele	te th	ne se	electe	ed m	issio	ns?	1		Delete Ar	chive
				Inis	actio	on ca	anno	tbe	reve	rsea							
		Ye	25								No					Select All Capture Points	
		-	-	-	-	-	-	-	-	-	-	-	-			Select Untaken Capture P	oints
																Clear Capture Points Sele	ction
																Back To Project List	
																Pause Project	

#### 4.2.3.2 Archiving Missions

You can archive missions that are probably no longer required. This frees up disk space and cleans the project folder, but crucial files are kept for future use.

#### To archive missions that appear in the open project:

1. Select the missions to archive and tap Archive.



### iX Flight Pro Operation Guide

4. Project Tasks

#### 2. Confirm the action by tapping **Yes**.

	•	Cap	tured	•	Untak	en 🌔	Sele	cted Fo	or Flying	g 🔴 A	utoma	tically	Selecte	d For Flying	Fly Entire Plan
		u	12	13	L4	LS	16	L7	L8 U	L10	111	L12	L13		Preflight Check
		1	1	1	1	1	1	1	1 1	1	1	1	1		Postflight Report
		3	3	3	3	3	3	3	3 3	3	3	3	3		Missions 2 Selected
		4	4	4	4	4	4	4	4 4	4	4	4	4		Select All
	THE R	5	5	5	5	5	5	5	5 5 6 6	5	5	5	5		2023-05-17 15.16.13 GMT+0000
		7	7	7	7	7	7	7	7 7	7	7	7	7		
9 18 9 9 8 4 8 2 1	1	8	8	8	8	8	8	8	8 8	8	8	8	8		2023-05-17 14:51:25 GM1+0000
						١	Nait								2023-05-17 14.44.49 GMT+0000
	Arev	กม รเ	ire v	011	want	t to a	archi	ve th	e sele	cted	missi	nns?			
	/	04 50	Tł	his a	actio	n ca	nnot	be r	everse	ed	111331	51151	г		Delete Archive
		Yes		1							No				
															Select All Capture Points
			_	_	-	_	_	_	_	_			J		Select All Capture Points Select Untaken Capture Points
			-	-	-	-	-	-	-	_			J		Select All Capture Points Select Untaken Capture Points Clear Capture Points Selection
Kardi									-				J		Select All Capture Points Select Untaken Capture Points Clear Capture Points Selection
							_	_	_				J		Select All Capture Points Select Untaken Capture Points Clear Capture Points Selection
									_				J		Select All Capture Points Select Untaken Capture Points Clear Capture Points Selection Back To Project List
								_					J		Select All Capture Points Select Untaken Capture Points Clear Capture Points Selection Back To Project List Pause Project

The word Archived is added to the mission's name.

Fly Entire Plan								
Preflight Check	Ŕ							
Postflight Report	. 🗅							
Missions 1 Selected	09.13.48 GMT+0000							
(Archived)								



### 5. Getting to Know the Flight Interface

There are two main flight interfaces:

- Pilot display
- Operator display

#### 5.1. Using the Pilot and Operator Displays Interface

Although the pilot and operator display interfaces are different, interaction with the icons in the displays are the same, as described in the following table:

lcon	Action	Description
œ	Тар.	The action represented by the icon is performed. In this example, zoom in on the map.
Grey/black icon		
ت ق آ	Tap (toggles the function on/off).	<ul> <li>White - function is inactive.</li> <li>Blue function is active.</li> <li>In this example, image capturing is off when white, and on when blue.</li> </ul>
Grey/white or grey/blue icon		
	Tap and hold an icon with a	Open additional settings related to the function.
	triangle in top right corner.	In this example:
		History Trail Minutes - 5 + Airplane Symbol Size - 0 +
	Тар.	Status:
PLAN GPS		<ul> <li>Green - hardware is OK for photography.</li> <li>Amber - GNSS/GPS data issue or mount is in standby/manual mode.</li> <li>Red - communication error.</li> </ul>



#### Note

If you are using a mouse to interact with iX Flight Pro, the color of icons at the bottom of the display changes when you hover on it.

#### 5.2. Pilot Display

The pilot display's advanced intuitive interface, with clear visuals and touchscreen controls, enable the pilot to follow and maintain the required flight parameters for a successful mission.

There are two views that appear automatically according to the flight phase:

- Navigation
- In Line

#### Warning

- iX Flight Pro is not designed, tested, or certified as a primary flight guidance system.
- Use iX Flight Pro only in VFR flight conditions.
- While using iX Flight Pro, the pilot is responsible for maintaining safe altitude and safe distance from obstacles.



iX Flight Pro Operation Guide 5. Getting to Know the Flight Interface

#### 5.2.1 Pilot Controls

Pilot display controls are shown and described in the following figure and tables.



- 1. Camera Status
- 2. GNSS/GPS Status
- 3. Mount Status
- 4. I/O Status
- 5. General System Status
- 6. Planned Altitude
- 7. Capture point numbers display toggle
- 8. Map display toggle

- 9. Next flight line
- 10. Previous flight line
- 11. Flight Lines Select Window
- 12. Pan
- 13. Zoom In
- 14. Zoom Out
- 15. Speed Display
- 16. Deviation Panel Settings

#### Note

The item numbers in the following table relate to the number assigned to the control in the above figure.



Control Number in Figure on Page 29	Control	Description	Indication/Actions
Page 29	CAM	Camera Status	Indications: • Green - OK for photography • Red - image collection is disabled by operator or camera communication error. Actions: Tap icon for details: <u>Cameras Status</u> <u>Ves</u> <u>UB3 a</u> <u>UB3 a</u>
			Connection type     USB 3 0       Unsaved Images     0       Ready For Capture     Yes       Disk Free Space     1868.747 GB / 18642 files     Update       MM010200     USB 3 0     0       Connection type     USB 3 0       Unsaved Images     0       V2000020     USB 3 0       Connection type     USB 3 0       Unsaved Images     0       V2000020     USB 3 0       Connection type     USB 3 0       Unsaved Images     0       Usb 3     0 </th



Control Number in Figure on Page 29	Control	Description	Indication/Actions
2	GPS	GNSS/GPS Status	Indications: • Green - OK for photography • Amber - GNSS/GPS data issue • Red - communication error. Actions: Tap icon for details: <b>GPS Device Status</b> <b>State</b> Connected, Not Good GPS Satellites 9 GNSS Status Differential SPS IMU Alignment Degraded Dilution Of Precision 1.7 Vert. Dilution Of Precision 1.7 Vert. Dilution Of Precision 0.87753 Latitude 32.164265 Longitude 34.929845 Altitude 145.4 ft Height Of Geoid 65.7 ft Roll 0.3 Pitch 0.2 Yaw 74.1 Ground Speed 0.0 kn Ground Speed 0.0 kn Ground Track 31.0 TO4 Logging Logging



Control Number in Figure on Page 29	Control	Description	Indication/Actions
3		Mount Status	Indications: • Green - mount is in STAB mode. • Amber - mount is in manual mode. • Red - mount fatal error. Actions: Tap icon for details: Mount Device Status         State       MAN Mode         Control Status       MAN Mode         Major Status       Mount Type         Somag GSM4000       Serial Number         Protocol Version       .0         Protocol Version       .0         Pritch       0.0         Vaw       0.0         Close       .0
4		I/O Status	Indications: • Green - OK for photography. • Red - communication error. Actions: Tap icon for details: I/O Hardware Status State Local Cameras Power Accessories Power Close Use this window to reset camera power.



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Control Number in Figure on Page 29	Control	Description	Indication/Actions
5	ΟΚ	General System Status	Indications: • Green - OK for photography. • Red - not ready for photogrammetry. Actions: Tap icon for operations log: Image: Comparison of the operations log:           Image: Comparison of the operation of



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5. Getting to Know the Flight Interface

Control Number in Figure on Page 29	Control	Description	Indication/Actions
8		Мар	<ul> <li>Tap - toggle the background map on/off.</li> <li>Tap and hold - toggles the window for setting Map Opacity and for selecting the Background Map.</li> <li>Select the map for display on pilot display.</li> <li>Background Map Settings Map Opacity         100         +         Background Map         210615-1206         210615-1206         210615-1206         </li> </ul>
9	+1	Previous flight line	Tap - set the next flight line to active.
10	<b>/</b> -1	Next flight line	Tap - set the previous flight line to active.



Control Number in Figure on Page 29	Control	Description	Indication/Actions
11		Flight Lines window	<ul> <li>Tap - toggles the Flight Lines window on/off.</li> <li>The active line is marked by numerals in magenta.</li> <li>You can set the order in which the lines are flown.</li> <li>Immediate the order in which the lines are flown.</li> <li>Immediate the order in which the lines are flown.</li> <li>Immediate the order in which the lines are flown.</li> <li>Immediate the order in which the lines are flown.</li> <li>Immediate the order in which the lines are flown.</li> <li>Immediate the order in which the lines are flown.</li> <li>Immediate the order in which the lines are flown.</li> <li>Immediate the order in which the lines are flown.</li> <li>Immediate the order in which the lines are flown.</li> <li>Immediate the order in which the lines are flown.</li> <li>Immediate the order in which the lines the order is the order in the selected flight line is then colored blue.</li> <li>Immediate the order the position of the selected flight line, use the cursor keys and tap Apply:</li> <li>Immediate the order is the orde</li></ul>
			Reverse Order Apply Manual Cancel
Control Number in Figure on Page 29	Control	Description	Indication/Actions
--	---------	-------------	--
11 (continued)			<ul> <li>Flight Lines window options (continued):</li> </ul>
			<ul> <li>To set a flight line to active, tap and hold it.</li> </ul>
			• To modify the flight line order, tap the following as required:
			<ul> <li>Order by Number - sorts the flight lines order numerically. Tap Apply to confirm.</li> </ul>
			<ul> <li>Reverse Order - swaps the start/end of the current flight lines order. Tap Apply to confirm.</li> </ul>
			<ul> <li>Undo - reverts the last change to the previous setting. Each tap undoes the previous change. Tap Apply to confirm.</li> </ul>
			<ul> <li>Auto - when the current flight line has been completed, iX</li> <li>Flight Pro activates the next flight line automatically</li> <li>according to the order in the</li> <li>Flight Lines window.</li> </ul>
			<ul> <li>Manual - the next flight line must be activated manually by the operator or pilot using one of the following:</li> </ul>
			- Flight Line window <b>Set</b> button
			- +1 (next flight line)
			- (previous flight line)
			• Apply



iX Flight Pro Operation Guide 5. Getting to Know the Flight Interface

Control Number in Figure on Page 29	Control	Description	Indication/Actions
11 (continued)			<ul> <li>Tap and hold - toggles the window for setting Line Width, Line Number Size and Cross Size.</li> </ul>
			Flight Lines Settings
			Lines Width - 4 +
			Line Number Size
			Crosses Size
12	C	Pan	Tap and slide - after tapping the icon, slide the display in the required direction to pan the image.
13	<b>(+</b> )	Zoom In	Tap - display zooms in.
14	Ð	Zoom Out	Tap - display zooms out.







## 5.2.2 Pilot Indicators

The pilot display indicators are shown and described in the following figure and table:



- 10. Own ship icon
- 11. Required altitude correction and direction. Min/max altitude:
   Min - the minimum altitude you may fly
  - while maintaining the defined sidelap tolerance
  - Max the maximum altitude you may fly while maintaining the GSD within the defined maximum tolerance
- 13. Min/max speed:
  - ٠ Min - as per your aircraft definition
  - Max the maximum speed that does not
  - cause smear of more than 1 pixel
- 14. Required speed correction
- 15. Distance/time markers (as per settings)
- 16. Photography line
- 17. Current ground speed
- 18. Standard turn indicator
- 19. Actual turn indicator
- 20. Planned ground speed
- 21. First image start data



#### Note

The In Line View above shows only indicators exclusive to this view.

- 1. Track deviation
- Image capture bars (momentary):
   Image marker:
- - green when image is captured
  - red when no MEP response is received to a trigger
- 4. Photography line
- 5. Allowed corridor for image capture



## 5.3. Operator Display

The operator display's advanced intuitive interface enables the operator to perform quality control of the captured photos in real time. If an image was not captured properly, the operator can mark it for refly.

The operator display is divided into two panes:

- Left always displays the captured photos collection.
- Right pane can display either:
  - Project view shows the project flight lines. In addition, you can select whether to show the images draped on the DTM.
  - Pilot view the same view that appears on the pilot display.



## 5.3.1 Operator Controls

The operator's display controls for the collection summary and DTM view are shown and described in the following figure and tables.



## Note

The item numbers in the following table relate to the number assigned to the control in the above figure.



Control Number in Figure on Page 42	Control	Description	Indication/Actions
1	Pilot	Pilot View	Shows the same view that appears on the pilot display:
2	Project	Project View	Shows the project flight lines with or without the backdrop map and with images are draped on the map, taking into account the DTM.







Number in Figure on Page 42	Control	Description	Indication/Actions
5		Plan Status	Indications:
		• • •	• Green - OK for photography
			• Amber - files missing in plan
			• Red – plan file error.
		•	Actions:
		• • • •	Tap icon for details:
		•	Flight Plan Status
	PLAN		Plan is validTrueROI Shape FileOlga Oblique 3500Has Elevation DataNoFlight Lines9Capture Points99Captures Taken0Captures Missed0Captures Missed0Captures Deleted0Elevation Cells?Elevation Cell Target?Elevation Max Height?Camera NameiXM-280 - 90mmSensor Orientation?Sensor Height14118 pxSensor Height53.084 mmFov Height32.863°Focal Length90 mmClose
			<b>Note</b> If items are in red, reload the plan file or verify the camera name.



Control Number in Figure on Page 42	Control	Description	Indication/Actions
6		GNSS/GPS	Indications:
		Status	• Green - OK for photography
			• Amber - GNSS/GPS data issue
			• Red - communication error.
			Actions:
			Tap icon for details:
			GPS Device Status
			State Connected, Not Good
	GPS		GPS Satellites     9       GNSS Status     Differential SPS       IMU Alignment     Degraded       Dilution Of Precision     1.7       Vert. Dilution Of Precision     0.9       Time Dilution Of Precision     0.87753
			Latitude         32.164265           Longitude         34.929845           Altitude         145.4 ft           Height Of Geoid         65.7 ft
			Roll 0.3
			Yaw 74.1
			Ground Speed 0.0 kn Ground Track 31.0
			T04 Logging Logging
			Close









## PHASEONE

Control Number in Figure on Page 42	Control	Description	Indication/Actions
12		Мар	<ul> <li>Tap - toggle the background map on/off.</li> <li>Tap and hold - toggles the window for setting Map Opacity and the Background Map.</li> <li>Select the map for display on operator display.</li> <li>Background Map Settings Map Opacity 100 + Background Map 210615-1206 210615-1134 210615-1206</li> </ul>
13	t	History Trail	Shows the flight path flown (according to the System Parameters <b>History Trail</b> <b>Minutes</b> parameter).

Control Number in Figure on Page 42	Control	Description	Indication/Actions
14		Flight Lines window	<ul> <li>Tap - toggles the Flight Lines window on/off.</li> <li>The active line is marked by numerals in magenta.</li> <li>         Image: Im</li></ul>
			<ul> <li>To select a flight line, tap and hold it. The selected flight line is then colored blue.</li> <li>Improve the line of Active Line Selection</li> <li>Improve the Selection</li></ul>
			<ul> <li>To change the position of the selected flight line, use the cursor keys and tap Apply:</li> </ul> Image: The selection is the sele
			<ul> <li>I o set a flight line to active, tap and hold it.</li> </ul>

# PHASEONE

Control Number in Figure on Page 42	Control	Description	Indication/Actions
14 (continued)			<ul> <li>Flight Lines window options (continued):</li> </ul>
			• To modify the flight line order, tap the following as required:
			<ul> <li>Order by Number - sorts the flight lines order numerically. Tap Apply to confirm.</li> </ul>
			<ul> <li>Reverse Order - swaps the start/end of the current flight lines order. Tap Apply to confirm.</li> </ul>
	5.7		<ul> <li>Undo - reverts the last change to the previous setting. Each tap undoes the previous change. Tap Apply to confirm.</li> </ul>
			<ul> <li>Auto - when the current flight line has been completed, iX Flight Pro activates the next flight line automatically according to the order in the Flight Lines window.</li> </ul>
			<ul> <li>Manual - the next flight line must be activated manually by the operator or pilot using one of the following:</li> </ul>
			- Flight Line window <b>Set</b> button
			- 🚺 (next flight line)
			- C-1 (previous flight line)
			<ul> <li>Apply</li> </ul>





Control Number in Figure on Page 42	Control	Description	Indication/Actions
18		Image capture status	Tap - toggles the Image Capture Status window on/off.          Image 0       0



Control Number in Figure on Page 42	Control	Description	Indication/Actions
19		Draped images (Project View only and if the System Setting: Drape images on the DTM within AOI is enabled)	Tap - drapes captured images that coincide with the AOI on the flight lines:
			<b>Note</b> If the system parameter <b>Drape Only</b> <b>Image Outline</b> is on, a polygon outline is shown instead of the image.
			<ul> <li>Tap and hold - toggles the window for Image Footprint Settings:</li> </ul>
			Image Footprint Settings
			Visible Camera
		•	C C
			Show Image Center Points
			Show Area Of Interest
			Show Only Image Outline
		•	Show All Of The Same Color Type
20	#	Replan window	Tap - displays the Replan Window (see Section 6.4.2.4 - Replanning Flight Lines or Capture Points During Flight).
21	505	Settings window	Tap - displays the System Settings/Camera Settings (see Appendix A - Configuring Settings).

Control Number in Figure on Page 42	Control	Description	Indication/Actions
22		End Mission	Tap - terminates the current mission and displays the Home window.
23	╡╏╴	Reset Pan	Resets panning.
24	<b>(+</b> )	Zoom In	Tap - display zooms in.
25	C	Pan	Tap and slide - after tapping the icon, slide the display in the required direction to pan the image.
26	Ð	Zoom Out	Tap - display zooms out.
27	Î	Track Up/North Up	Tap to toggle the display between track up and north up.
28		Mark selected shot as bad	Marks the selected image as bad. Bad and missed images will be included in the replan. The mark is also included when the project is opened or reviewed in iX Process.
29		Manual trigger	Manually capture an image immediately.
			When using time capture mode (see 30 below), start capture according to the time interval in camera settings.



Control Number in Figure on Page 42	Control	Description	Indication/Actions
30		Capture mode	PLAN mode - capture images only when in the flight line and within the limitations set in System Settings > Mission > Capture Tolerances.
	PLAN TIME		TIME mode - capture images according to the Camera Settings > Trigger Interval. You need to start and stop capturing by tapping (Manual trigger).
31	•••	Link Camera Properties	Links the properties for cameras defined as linked (RGB and NIR, if present) so that in manual mode, any adjustments to aperture, shutter speed, or ISO is implemented equally on all linked cameras. For example, in a system with RGB and NIR cameras, if you increase the shutter speed by 2 steps, the shutter speed for linked cameras will be increased by 2 steps.
			<b>Note</b> To enable this feature, make sure that in <b>System Settings</b> > <b>Capture</b> > <b>Camera</b> , the <b>Link Camera Properties</b> checkbox is selected.
32	+0.0 EV	Increase/ decrease EV	Appears in <b>Auto</b> (Auto Exposure) mode only: • Tap + to increase the EV. Tap - to decrease the EV.



Control Number in Figure on Page 42	Control	Description	Indication/Actions
32a	5.6 Aperture	Increase/ decrease aperture	<ul> <li>Appears in Man mode only:</li> <li>Tap + to increase the aperture.</li> <li>Tap - to decrease the aperture.</li> </ul>
32b	+ 1/15 Shutter	Increase/ decrease shutter speed.	<ul> <li>Appears in Man mode only:</li> <li>Tap + to increase the shutter speed.</li> <li>Tap - to decrease the shutter speed.</li> </ul>
32c	3200 ISO	Increase/ decrease ISO	Appears in <b>Man</b> mode only: • Tap + to increase the ISO. • Tap - to decrease the ISO.
33	Man Auto	Auto/ Manual Exposure	Tap to toggle between manual and automatic exposure modes.



## iX Flight Pro Operation Guide 5. Getting to Know the Flight Interface

Control Number in Figure on Page 42	Control	Description	Indication/Actions
on Page 42 34		EV scale	Shows the EV for each adjacent image in the image history.
	-2 -1 0 +1 +2		

Control Number in Figure on Page 42	Control	Description	Indication/Actions
35	8:4 8:3 8:3 8:2	Image history for selected camera	Shows the image history for the selected camera.
36		Freeze image history	Tap to freeze the image history.
37		Unfreeze image history	Tap to unfreeze the image history (arrow is red while frozen).





## 6. Recommended Flight Operation Procedure

## 6.1. Before Aircraft Power Up

- 1. Lens covers/filters:
  - a. PAS 150 MK3 + PAS 280 MK3: verify that lens cover(s) are removed.
  - b. PAS 880/PAS Pana: verify that lens filters are clean.
- 2. Power, GNSS, mount power, mount data cable connections verify they are correct and secure.
- 3. Controller:
  - PAS 150 MK3 + PAS 280 MK3:
    - a. iX Controller MK6 MAIN circuit breaker verify pulled out.
    - b. iX Controller MK6 AUX circuit breaker verify pulled out.
  - PAS 880/PAS Pana:
    - a. PAS 880/PAS Pana Controller POWER circuit breaker verify pulled out.
    - b. PAS 880/PAS Pana Controller CAMERAS circuit breaker verify pulled out.
- 4. SOMAG mount POWER SWITCH verify set to OFF.

## 6.2. After Aircraft Power Up

## 6.2.1 Controller and Mount

- 1. Controller:
  - PAS 150 MK3 + PAS 280 MK3:
    - a. iX Controller MK6 MAIN circuit breaker push in.
    - b. Wait 10 seconds.
    - c. iX Controller MK6 AUX circuit breaker push in.
    - d. iX Controller MK6 GNSS LED validate that it is flashing green.
    - e. iX Controller On/Off pushbutton press.
    - f. Log in to Windows.
  - PAS 880/PAS Pana:
    - a. PAS 880/PAS Pana Controller POWER circuit breaker push in.
    - b. PAS 880/PAS Pana Controller CAMERAS circuit breaker push in.
    - c. PAS 880/PAS Pana Controller CONTROLLER pushbutton press.
- 2. SOMAG mount POWER SWITCH set to ON and wait till test is finished.

## 6.2.2 Screen Recording

#### Note

- If screen recording is necessary, install an application of your choice and use it to record the screens during flight.
- Verify that the output folder is set to D:\Videos.



6. Recommended Flight Operation Procedure

## 6.2.3 GNSS/GPS

1. On the taskbar, tap the Applanix icon.

⊕ Type here to search
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2. In the menu, tap **Data Logging** and configure the parameters as shown following:

Satellites   Data Logging   Summary   Data Files   RINEX Metadata   FTP Push   FTP Push Log     Receiver Configuration   I/O Configuration   I/O Configuration   MSS Corrections   Network Configuration   Security   Firmware   Help     File System     Size   Available   Auto Delete   /Internal   7.125 GB   6.318 GB   67%   I/External     Session   Schedule   Status   Enable   DEFAULT   Measurements 0.2 Sec.   Positions 0.01 Sec.   Configure     Logging	Receiver Status			_		
Data Logging   Summary   Data Files   RINEX Metadata   FTP Push   FTP Push Log   Receiver Configuration   I/O Configuration   MSS Corrections   Network Configuration   Security   Firmware   Help	Satellites	File System	Size	Available	Auto Dele	ate
Summary   Data Files   RINEX Metadata   FTP Push   FTP Push Log     Receiver Configuration   I/O Configuration   I/O Configuration   MSS Corrections   Network Configuration   Security   Firmware   Help     Imternal     I/Internal   I/Internal </th <th>Data Logging</th> <th>/Internel</th> <th>7 405 00</th> <th></th> <th></th> <th>- Commet</th>	Data Logging	/Internel	7 405 00			- Commet
Data Files   RINEX Metadata   FTP Push   FTP Push Log     Receiver Configuration   I/O Configuration   I/O Configuration   MSS Corrections   Network Configuration   Security   Firmware   Help     Image: A state of the state of t	Summary	/internal	7.125 GB	0.318 GB 077	•	Format
Rivez Metadata   FTP Push   FTP Push Log     Receiver Configuration   I/O Configuration   MSS Corrections   Network Configuration   Security   Firmware   Help	Data Files	/External				
Session       Schedule       Status       Enable         Receiver Configuration       DEFAULT       Logging       Image: Continuous of the status       Enable         MSS Corrections       Network Configuration       Security       Configure       Configure       Logging       Image: Configure         Firmware       Help       Help       Image: Configure       Image: Config	FTP Push					
Receiver Configuration       DEFAULT       Continuous       Logging         I/O Configuration       Positions 0.01 Sec.       Continuous       Logging         Network Configuration       Configure       240 Min.       Logging         Firmware       Help	FTP Push Log	Sess	ion	Schedu	e Status	Enable
I/O Configuration       Measurements 0.2 Sec.       Continuous       Logging         MSS Corrections       Configure       240 Min.       Logging         Network Configuration       Configure       240 Min.       Logging         Firmware       Help       Image: Sec.	Receiver Configuration	DEEA		ooneda	o otatuo	Linabio
MSS Corrections     Positions 0.01 Sec.     240 Min.     Logging       Network Configuration       Security       Firmware       Help	I/O Configuration	Measuremen	ts 0.2 S	ec. Continuo		
Network Configuration Security Firmware Help	MSS Corrections	Positions C Config	0.01 Sec.	240 Min	240 Min. Logging	
Security Firmware Help	Network Configuration					
Firmware Help	Security					
Help	Firmware					
	Help					
		1				

Parameter	Setting
/Internal Auto Delete	Unselected
Enable	Selected.
• • • • • • • • • • • • • • • • • • • •	

## Note

Verify that in the **Status** column, under **Logging**, a filename is displayed.



3. In the menu, tap **Receiver Status** and tap **INS Status**. Verify the outlined parameters are as shown:

<u></u>	INS Status	
Receiver Status		
Activity	Statua	
Position	Status	
Graphs	INS Mode: Invalid	
Vector	GNSS Mode: Autonomous	
INS Display	Logging: On	
INS Status	IMU ID: 91 (Remote)	
Nav Frame Solution		
Google Earth		
Identity	Position	Dynamics
Receiver Options	Latitude: 55° 40' 18.78361" N σ=2.678 [m]	Longitudinal: 0.000 [%
Satellites	Longitude: 12° 30' 55.77701" Ε σ=1.069 [m]	Transverse: 0.000 [°/
Data Logging	Altitude: 57.967 [m] σ=3.730 [m]	Vertical: 0.000 [%
Receiver Configuration	Geoidal Separation: 36.021 [m]	-
I/O Configuration		lime
MSS Corrections	Attitude	GPS Week:
MISS Corrections	Roll: 0.000° σ=0.000°	GPS Seconds:
Network Configuration	Pitch: 0.000° σ=0.000°	GPS-UTC Offset:
Security	Heading: 0.000° σ=0.000°	UTC:
Firmware	Speed: 0.014 [Kn] 0.025 [km/h]	Event Marker #1: 14:
Help	Track: 127°	Event Marker #2: 23:

Parameter	Setting	
Logging	ON	
IMU ID	The ID of the actual IMU that is installed.	•

#### 4. Tap **OK**.

5. Minimize the **Applanix browser interface** window.

## 6.2.4 iX Flight Pro

- 1. Run iX Flight Pro.
- 2. Simulation mode verify off.

## 6.2.4.1 Camera Settings

- 1. In the Home window, tap **Settings**.
- 1. Tap Cameras **Settings**.
- 2. Show Advanced select the checkbox.



6. Recommended Flight Operation Procedure

- 3. For each installed camera:
  - Camera Name verify correctly identifies camera.
  - Camera Position verify correctly set as follows:
    - PAS 150: Center
    - PAS 280: Center, NIR
    - PAS 880 Front, Back, Center, Right, Left, NIR as required
  - Master Image Folder verify correct folder.
  - Ready to Capture verify marked green.
  - Image File Name edit as required.
  - Exposure Mode set as required.
  - ISO, Aperture and Shutter verify that settings suit mission light conditions.
  - Capture Setup:
    - White Balance verify set to Aerial.
  - Image Orientation set as follows:
    - PAS 280 280MP camera appears as 90° and 270° (cannot be changed)
    - PAS 880:
      - Left: 180°
      - Back: 18**0°**
      - All other cameras: **0**°
  - Left Terminal set as follows:
    - Terminal is: GPS
    - Baud Rate: 115200
    - GPS Receiver: Applanix GPS
- 4. Tap Close.

#### 6.2.4.2 Preflight Check

- 1. Open the required project and perform a Preflight Check.
- 2. During the test, verify that the mount STATUS LED changes color momentarily from green to yellow and back to green.
- 3. Verify that under Camera System, the USB-3 Connection test result is OK.
- 4. Verify that all test results are positive (green). If something failed, tap **Start Testing** again.
- 5. Close the Preflight Check window.



6. Recommended Flight Operation Procedure

## 6.2.4.3 Fly Project

 On the operator display, select the required options (lines and/or capture points, some or all missions, or an iX Process Subplan (Re-Fly).



2. Tap Fly XX Lines or Fly Entire Plan.



3. Tap (Manual trigger) - verify images appear in image history.



- 4. Verify TME (Capture Mode) is set to PLAN.
- 5. On the operator or pilot display, tap 🔀 (Flight Lines), double-tap line 1 and tap 🐼 (Flight Lines) again to close the **FLIGHT LINES** window.
- 6. On the pilot display, tap and hold 🚳 (Map) and select the required **Background Map**.
- 7. On the operator display, tap and hold (Map) and select the required **Background Map** (identified by numbers).



6. Recommended Flight Operation Procedure

## 6.3. On Taxiing

- 1. Open the Applanix browser interface.
- 2. In the menu, tap INS Display and **INS Display** verify that the INS is aligned. **Receiver Status** Satellites Data Logging **Receiver Configuration** I/O Configuration MSS Corrections Network Configuration Security Firmware Help 357.530° Heading: Pitch: -0.371°

Roll:

-0.378°

## 6.4. In Flight Tasks

## 6.4.1 In Flight Tasks for Pilot

#### Fly the plan while maintaining the following:

- Enter passes more than 30 seconds before the first image to allow the mount to stabilize.
- Fly as close as possible to the line and to the planned altitude and within the allowed zone.
- Avoid large and fast control inputs.
- After end of each line monitor the engine, fuel, and flight parameters.

## 6.4.2 In Flight Tasks for Operator

## 6.4.2.1 After Takeoff

1. At mission altitude when over the correct area, in iX Flight Pro take images to adjust camera parameters. Note the image parameters.

2. If the background map is not displayed, tap 🙆 (Map).



iX Flight Pro Operation Guide 6. Recommended Flight Operation Procedure

#### 6.4.2.2 Line Procedure

- 1. Screen recording application verify that it is recording video and screen.
- 2. Status indicators at top of display verify that all are green.
- 3. Image history monitor captured images.
- 4. Mount monitor.
- 5. Missed and bad images note images that are bad or missed.
- 6. Next flight line tap at the end of the line if Active Line Selection is set to Manual.

## 6.4.2.3 End of Line

- 1. Tap 🚧 and verify that all images have been successfully collected. Tap 🚧 again to close the window.
- 2. Tap Project.
- 3. Tap 🚿 to display draping.
- 4. For each camera, review the footprint.
- 5. Zoom out as required to show the entire project.

#### 6.4.2.4 Replanning Flight Lines or Capture Points During Flight

During a flight, the operator can open the Replan window, see which capture points were missed and select some or all of them to refly.

#### To view missed capture points:

1. Tap ` ##. The Replan window appears, and any missed capture points are selected.





#### To select only some of the missed capture points:

1. Tap Clear Caption Points Selection.



The untaken capture points are displayed.



## Note

Any captured points are displayed in green.

2. Select the capture points you require as described in Section 4.2.2.1 -Manually Select Lines and/or Capture Points.





6. Recommended Flight Operation Procedure

3. Tap **Fly XX Lines** or **Fly Entire Plan** to set the lines and/or capture points that you selected as the new flight plan.



## 6.4.2.5 Pausing Projects

You can split large projects that need to be flown over several flights by pausing the project at a specific point and continue the flight the next time you open the project.

#### To pause an open project:

- 1. Tap 🔛 (End Mission).
- 2. Tap Pause Project.





6. Recommended Flight Operation Procedure

#### 3. Confirm the action by tapping **Yes**.

😽 iX Flight Pro																	-	□ ×
PAS280 calib 5 gsd	• c	apture	ed 🍯	Unta	ken	<mark>o</mark> Sel	ected	For Fl	ying	<mark>-</mark> Au	toma	ically	Selecte	d For Flying	Fly	Entire Plan		
	u	12	L3	L4	LS	L6	L7	L8	19	L10	111	L12	L13		Pr	eflight Check		
	1	1	1	1	1	1	1	1	1	1	1	1	1		Po	stflight Repo	rt	
	3	3	3	3	3	3	3	3	3	3	3	3	3		м	issions 10 Sel	ected	
	4	4	4	4	4	4	4	4	4	4	4	4	4			Vnselec	t All	
	6	6	6	6	6	6	6	6	6	6	6	6	6			2023-0	5-17 15.16.13 GMT+0000	
	7	7	7	7		- /		-+	1	_7	_7	7	7	1		2023-05	5-17 14.51.25 GMT+000	0
				F	ausi	ng r	roje	cı								2023-09	5-17 14.44.49 GMT+000	0
and wi	P. II ask	ausir to c	ng pi ontii	rojec nue t	t wil he s	l shu ame	tdov fliah	vni) It pla	( Flig an at	ht Pı the	ro next	star	tup					
	ro vo		ro 1/		anti	0 02		the		nt n	roior	+2				Delete	Archive	
	tre yo	ou su	ire y	ou w	anti	to pa	luse	line	urre	nt p	rojec				Se	lect All Captu	ire Points	
	Yes										No				Se	lect Untaken	Capture Points	
		_		_		_	_		_				_		Cle	ar Capture P	oints Selection	
															Ba	ck To Project	List	
															Pa	use Project		-22- 10
															Fir	ish Project		<u> </u>

4. When you next open iX Flight Pro, the following message appears:

Projects:		Down Parts at	
Big G 5200 ft		Open Project	
Date created: 5/17/2022 12:43:46 PM Date Modified: 5/15/2023 9:31:07 AM		Add Project	
Postflight Report Available		Remove Project	
Big G 90mm 3600 ft Date created: 6/8/2022 11:41:21 AM Date Modified: 5/15/2023 8:42:09 AM		Remove Project	
Postflight Report Available			
Big G -150mm- 10000 ft Date created: 2/21/2023 12:12:45 PM Date Modified: 2/22/2023 8:27:05 AM			
PAS280 calib 5 gsd Date created: 2/28/2023 3:49:15 PM Date Modified: 5/17/2023 3:16:22 PM	Found Paused Project		
Postflight Report Available	Would you like to continue flying project:		
280_Boresite	280_Boresite		
Date created: 5/21/2023 9:06:54 AM Date Modified: 5/21/2023 9:12:50 AM	Yes		
rostnight report Available			
		Diagnostics Logs	
		License	
		Settings	

Confirm the action by tapping **Yes**.



## 6.5. After Landing Tasks for the Operator

- 1. In iX Flight Pro, tap 📕 (End Mission).
- 2. Screen recording application (optional) stop recording and close the application. Verify that the video output file is in D:\Videos.
- 3. In iX Flight Pro, tap **Finish Project**.



 Select the options required, specify the disk location where the flight data is will be saved, and tap Start.



iX Flight Pro collects all required information and saves the flight data zip file in the location you specified.

- 5. Repeat for all plans flown.
- Exit iX Flight Pro. When exiting, select whether to stop GNSS/GPS logging now, or later through your GNSS/GPS application.

GPS Logging							
Do you want to stop GPS logging? If not, GPS logging should be stopped manually through the GPS application							
Yes	No	Cancel					



## 6.6. Before Engine Shutdown

- 1. Wait two minutes from end of taxi while standing with engine on.
- 2. In the menu, tap **Data Logging** and clear the enable checkbox.

<u> </u>	Data L	oggi	ing			
Receiver Status			•			
Satellites	File System	Size	Availat	ole	Auto Delete	1
Data Logging	/Internal	7 125 GB	6 318 GB	67%		Format
Summary Data Files	/External	7.120 00	0.010 00		0	- crinici
RINEX Metadata	/External					
FTP Push						
FTP Push Log	Sess	ion	Sche	dule	e Status	Enable
Receiver Configuration	DEFA	ULT				
I/O Configuration	Measuremen	its 0.2 Se	ec. Conti	nuou		
MSS Corrections	Confic	ure	240	Min.	Logging	
Network Configuration						
Security						
Firmware						
Help						

Parameter		Setting
Enable	Unselected.	

- 3. If you are removing the SSD:
  - a. Download GNSS/GPS data to Drive D.
  - b. Verify all logs are in drive D.
- 4. Microsoft Windows shutdown.

## Warning

Make sure you shut down Windows properly before powering down the Controller.

- 5. SOMAG mount POWER SWITCH verify set to OFF.
- 6. Controller:
  - PAS 150 MK3 + PAS 280 MK3:
    - a. Verify that the On/Off pushbutton white LED has turned off.
    - b. iX Controller MK6 MAIN circuit breaker verify pulled out.
  - PAS 880/PAS Pana:
    - a. PAS 880/PAS Pana Controller POWER circuit breaker verify pulled out.
- 7. System power supply (aircraft side) switch OFF.


# 7. Post Flight Operations

## 7.1. Generating the Postflight Report

## To generate a post flight report:

 Tap a project that is marked with Postflight Report Available and tap Open Project.



2. Tap Postflight Report.



3. In the Post Flight Menu, select at least one mission execution.

Aligner Handing     Biogrammed Biogramme	Big         State Separt         Exercise	De stillighet Demost Cattinue					
Market Ausse Australia Aus	The pink that an about the pink that and the pink	-ostingni keport settings					Generate Report
Najet überlery     Ubl./L.Sit/L.georgici/L.Sit/L.geordi/L.geordi/L.geordi/L.geordi/L.geordi/L.geordi/L.geordi/L.geordi/L.geordi/L.	Bigland Alegard Mage Type       Statistical Statisti Statistical Statistical Statistical Statis St	Project Name		abigue bose	ight		Collect Flight Data.
Malin Laucifus Applies Appli	Malan Racotos     2 More       Types     Internal of the set of	Project Directory	UniX_SW_ProjectsIX_Flight_ProvX Flight Pro 178(174-	Hight 29-6-22-obicue HAS 6801/Hight planoblique bore	ight		
Type         2004-03         2	Sedera 31         Sedera 32           Badgman Type         Image: Sede	Mission Executions		2 Selected	◄		
لي التحكيم الت التحكيم التحكيم الت التحكيم التحكيم الت التحكيم التحكيم الت التحكيم التحكيم ا التحكيم التحكيم ا	Option         - <th></th> <th></th> <th></th> <th></th> <th>Select All</th> <th></th>					Select All	
Rayert Type         Image: Constraint of the Constra	Apart Type         Image: Apart Apple         Image: Apple Ap	Options		( mm		2024-02-29 17.5	0.05 GMT+0200
Badymank (Mr Tyru         V         V         Roke 12:81 7.65 16 4071-0009           Mit Badymank (Mr Tyru         V         V         Roke 12:81 7.65 16 4071-0009           Mit Chart Linkt         V         I         Roke 20:81 7.65 16 4071-0009           Pink Chart Linkt         V         I         Roke 20:81 7.65 16 4071-0009           Link Decording Time         V         I         Roke 20:81 7.65 16 4071-0009	Bidgeard (MB Thja The Endogeard (MB Thja Bid Chart lint The Endogeard (MB Thja Bid Chart lint The Endogeard (MB Thja Bid Chart Lint Company Line Execution Time Company Compa	Report Type				2024-02-29 17.1	2.20 GMT+0200
Inf Tabupatan Kap         Inf Tabupatan Kap           Inf Tabupatan Kap         Inf Tabupatan Kap <th>Introduction State Data 115,032 Gent - Game State Data 115,032</th> <th>Background Map Type</th> <th></th> <th></th> <th>X</th> <th>2024-02-28 17.0</th> <th>5.16 GMT+0200</th>	Introduction State Data 115,032 Gent - Game State Data 115,032	Background Map Type			X	2024-02-28 17.0	5.16 GMT+0200
an Care and Pack Care Link Line Exception Time	Min Card Units Min Card Units Une Execution Time	Bull Charte Linds				1024-02-18 15 1	24 GMT-0200
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Line LARCulation I lime		the formula Time				2024-02-18 15.0	9.02 GM1+0200
		Line Decouon Time				2024-02-18 15.0	7.27 GMT+0200



iX Flight Pro Operation Guide

7. Post Flight Operations

 Configure the report options as required. A description of the options appears in the following table:

Hitsian		Generate Report
Project Name	oblique boresight	Collect Flight Data
Project Directory	DSX.SW. ProjectsSX./Flight.ProJX.Right Pro 174:174-Right 28-6-22-oblique PAS 000M/light plantoblique boresignt	
Mission Executions	2 Selected	
Options		
Report Type	\ Long	
Background Map Type	Ceo Tit	
TIFF Background Map	220216 1839	
Roll Charts Limit	*e 🗸	
Pitch Charts Limit	Pa 24	
Line Execution Time	ars unc	

Report Option	Description
Report Type	<ul> <li>Short - short report containing (for each camera):</li> </ul>
	<ul> <li>a map of collected images with GNSS/GPS event ID or capture number shown per image.</li> </ul>
	• a map of missed images.
	<ul> <li>a map of overlap and sidelap showing in color areas where the overlap or sidelap are under the mission plan requirement.</li> </ul>
	• Long - extensive report:
	<ul> <li>all items appearing in the short report.</li> </ul>
	• for each flight line:
	<ul> <li>mission start time (GNSS/GPS time).</li> </ul>
	<ul> <li>graphs for camera and aircraft pitch, roll, yaw, ground track, GNSS/GPS altitude.</li> </ul>
	<ul> <li>mission statistics relating to horizontal and vertical distances from the flight line.</li> </ul>
	<ul> <li>Line Execution Time (shown in the Line Execution Time you selected) with first and last GNSS/GPS Event ID per line.</li> </ul>
Background Map Type	<ul> <li>GeoTIFF - use an iX Plan TIFF fileas the background (see TIFF Background Map).</li> </ul>
	<ul> <li>Project Area - do not use a background.</li> </ul>
TIFF Background Map	If you selected GeoTIFF in <b>TIFF Background Map, select the</b> IX Plan GeoTIFF file to use as the Map Background.
Roll Charts Limit (for Long Report Types only)	Sets the range of the roll chart axis.
Pitch Charts Limit(for Long Report Types only)	Sets the range of the pitch chart axis.
Line Execution Time (for Long Report Types only)	Sets the time format for the table showing line execution times.



## iX Flight Pro Operation Guide

7. Post Flight Operations

## 5. Tap Generate Report.

ne Katary Dute fine Program Dute fine Program Des Program Des Theorem Program Des Theorem Program Des Program Des All Program Des All Des All Des	ot ight plantys 2 Sein	dique boresight alique boresight stead	Collect Flight D
Inder for Freignauss Thyle Preds Flyin in a 176,176 Flyin 76.677 datum PAS books Booking	ight plarive 2 Seie	nique boresight cred	
nation	2 Seie	and 🔽	
•		Loug	
d Map Type		Geo Tiff	
round Map		220216-1009	
Limit		14*	
a Limit		+41	
tion Time		GPS UTC	
erest intersection Threshold		5%	

When the report has been generated, the PDF file appears.



6. Tap Close.

		Generate Report
dission		
Project Name	oblique boresight	Collect Flight Data
Project Directory	Do.M. SW. ProjectelyX. Flight: PeolyX. Flight Pro 174(174-Flight 79-4-22-ablique DAS MDD/Flight plantonikpue berenight	
Mission Executions	2 Stretted	
anoing		
Report Type	Tong	
Beckground Map Type	🗢 Geo Tiff	
TIFF Background Map	220216-1009	
Roll Charts Limit	14*	
Pitch Charts Limit		
Line Execution Time	CPS UTC	
Area of Interest Intersection Threshold	V 5%	



## 7.2. Collecting Flight Data

You can collect a project's flight data for:

- post-flight processing, such as importing into iX Process.
- troubleshooting (zips all flight-related files required for sending to Phase One for analysis, including Window system files if required).

The archive (zip) file created when you perform an export contains the following folders:

- [Flight Plan Name]
- Config
- Crash Dumps (if exists)
- GNSS/GPS (if exists)
- Logs
- Reports (if exists)

#### To collect flight data:

- 1. Perform steps 1 4 in Section 7.1 Generating the Postflight Report.
- 2. Tap Collect Flight Data.

20/10		Generate Report
Project Name	oblique boresight	Collect Flight Data
Traject Directory	Dolf SW Projectvj/J. Right Probl Flight Pro 174(174-Flight 24-4-22-oblique 245 MOV/Flight plat/oblique bornight	
Mission Executions	2 Selected 🛛 🤝	
tions		
Report Type	tong	
dackground Map Type	Geo tiff	
IFF Background Map	▽ 220216-1009	
toll Charts Limit	14*	
fitch Charts Limit		
Ine Execution Time		
area or interest intersection intesnola		

3. If you agree to stop GNSS/GPS data collection, tap **OK**.

Attention	
Creating the report stops GPS data collection Collection of data on the Applanix GNSS devic Click 'OK' to generate the report or 'Cancel' to stop	in iX Flight Pro. e is not effected. generating the report
ОК	Cancel



## iX Flight Pro Operation Guide

7. Post Flight Operations

4. Decide whether to include Microsoft Windows system information and tap the required response.



The system collects the data.

When the zip file is created, a window showing the zip file content appears.







#### iX Flight Pro Operation Guide 7. Post Flight Operations

#### 5. Tap Close.

ssien				Generate Report
Project Name		isrean 280	tmp 5 gsd	Export Flight Data.
Project Directory	DI;OreDrive - Phase Onet/Phase One Documentation/Product Documentation/Aerial Systems/SWAX Fight Prot/Fight Plans)	icreen 280	Xmp 5 god	
Mission Executions		Selected		
rpst				
Jutput To Plan Directory				
kiens Report Type			Short	
Background Map Type			Geo Till	
Tiff Background Map		21	0831-0936	
Roll Charts Limit			+2*	
Pitch Charts Limit			2.41	
Lines Execution Time		Week	orSeconds	
Region Of Interest Intersection Threshold			0%	
Rotate 180" Left And Back Cameras Images			VIS .	

## 7.3. Saving Diagnostics Logs

If there is an issue in your system, Phase One Technical Support may request that you send a log containing diagnostics of your system.

#### To save a diagnostics log as a zip file:

1. Tap Diagnostics Logs.



Windows File Manager appears showing the Diagnostics folder and the created zip file so that you can send it to Phase One Technical Support. The zip file filename has the following template: Diagnostics\_DD-MM\_HH-MM-SS.zip.

 Organization
 - C
 X

 Image: Constrained and the state of the state o

2. When finished, close the File Manager window.



## 7.4. Finishing a Project

## To finish a project:

1. Tap Finish Project.

S280 calib 5 gsd	• G	apture	4 <b>•</b> I	Untak	ken 🦲	Sele	cted	For Fl	ying	<mark>-</mark> Au	tomat	ically	Selecte	ed For Flying	Fly	11 Lines			ć
	u	L2	L3	L4	L5	L6	17	L8	L9	L10	L11	L12	L13		Pre	flight Check			
	1	1	1	1	1	1	1	1	1	1	1	1	1		Po	stflight Repo	ort		
	З	3	3	3	3	3	3	3	3	3	3	3	3		м	ssions 18 Se	lected		
	4	4	4	4	4	4	4	4	4	4	4	4	4		D	Vinseler	t All		
	5	5	5	5	5	5	5	5	5	5	5	5	5						
	7	7	7	7	7	7	7	7	7	7	7	7	7		Ŀ	2023-0	6-04 06.21	J.15 GMT+000	
	8	8	8	8	8	8	8	8	8	8	8	8	8			2023-0	6-02 14.53	.06 GMT+000	0
										9	9	9	9			2023-0	6-02 14 51	35 GMT+000	ี่วิไ
										10	10	10	10						
										11	-11	-11	11			Delete		Archive	
																Delete		Arciive	
															Se	ect All Captu	ire Poin	ls	
															Se	ect Untaken	Capture	Points	
															Cle	ar Canture P	lointe Se	lection	
															Cle	ar capture r	oints se	lection	
	1														Ba	ck To Project	List		
															Pa	use Project			
															. Tim	ish Project			2

2. Select the required options as described in the table below and tap Start.



# PHASEONE

Option	Description
Generate Report	Generates the Postflight Report (see Section 7.1 - Generating the
	Postflight Report).
	Always selected.
Collect Flight Data Type	Saves the Flight Data in a zip file (see Section 7.2 - Collecting Flight
	Data).
	Always selected.
Copy Flight Data to	Copies the flight data zip file to the drive you specify.
Archive Missions	Archives all missions in the project (see Section 4.2.3.2 - Archiving
	Missions).
Shutdown iX Flight Pro	Shuts down iX Flight Pro.

The data is collected.

End of Flight
Collecting all needed information
Generating C3 captured map
Cancel

When completed, Windows File Manager appears showing the folder that contains the zip file with the collected data.



## **Appendix A. Configuring Settings**

iX Flight Pro includes an extensive list of parameters organized into the following main groups:

- System Settings
- Camera Settings
- Camera System

## Note

You cannot configure settings while in Simulation mode.

## A.1 Configuring System Settings

## A.1.1 Accessing System Settings

#### To configure the system settings:

1. In the Home window, tap **Settings**.



## 2. Tap System Settings.

ilter:		- Application Presentation				System Settings
	Application Presentation	Appearance			0	Cameras Settinos
	Operator Application Window	Color Theme			Unity =	
	Pilot Application Window	Settings Text Size	· - 0	-+ 🔽	16 =	Camera System
	Operator & Pilot Application Window					
	Mission	Operator Application Window				Show Advanced
	Capture	Rol And Ground Track Directions				
	GPS/IMU	Show In Filet View				Always Hide Navigati
	Mount	Show roll and ground track directions when 'Hot' tab is selected				Always Hide Sliders
	Simulation	Show in Project View				
	General	Dense Only invest Online				
	About	Show only the outline of an image draped on the map				Active Conners Surface
		Show All Conserve Of Sense Color Type Show on the map of the images from the conserve of the sense order type (SOR) NIIS			=	PAS 150
		Navigation Elements				
		Text Size Does not apply to map elements	· - 0	+ (1-16)	10 =	
		On Map Text Size Taxt size of map demonts (from flight plan)	• O	-• 🗢	10 =	
		Flight Line Width	• O	+	4 =	Restore to Default
		Rate One Turn Indicator Width	· - 0	+	6 =	Import
		Capture Point Size	-0	- +	11 E	Export
				(5-40)	10	Close



## A.1.2 Using the System Settings Interface

To use the System Settings interface efficiently, set the following controls as required:

• Show Advanced - tap the checkbox to toggle parameters defined with the Advanced access level (see Access Level in A.1.3 - System Parameters).



 Always Hide Navigation - tap the checkbox to toggle the left navigation pane on/off.

and the second sec			
iber	Application Presentation		System Settings
Application Presentation	Apparance		
Operator Application Window	Color Theme	🗢 nay 😑	Cameras Settings
Pilot Application Window	Settings Test Size	▼ 16 =	Comoro Surtem
Operator & Pilot Application Window			Camera aystem
Mission	Operator Application Window		
Capture	Scatt Anal Council Titled: Directions		Show Advanced
GPS/IMU	Show In Filet View	X =	Ahvays Hide Navigatio
Simulation	Show in Project View		Ahazys Hide Sliders
General	Show roll and ground track directions when 'Project' tab is selected		
About	Drape Only image Outline Show only the culture of an image draped on the map		Active Camera System:
	Show All Cameras Of Same Color Type Show on the map all the images from the camera of the same color type (%68/%)		Default
Sector Sector	Navigation Hemorits		
	Text Size	10 _	
	Does not apply to map elements	D-16	
	On Map Text Size Text size of map cloments (from flight plant)	· □ □ □ □	
	Flight Line Width	2 =	
		103 1	
	Rate One Turn Indicator Width	2 =	
		(	restore to Default
	Cepture Point Size	(5-40)	Import
	Blake Line Group Size	16 _	
	right the cost sta	[8-60]	Export
	Background Map Opacity	100 =	Close
		[0-100]	

• Always Hide Sliders - tap to toggle parameter sliders on/off.





## To filter the left navigation pane to display only parameters related to a specific keyword:

 In the Filter textbox, enter the required keyword. As you type, unrelated items are filtered out.

iX Flight Pro					- 0
Filter ine	Capture Tolerance	- 0	+ 🗸	Meters	System Settings
Application Presentation	Line Extension Length			Nautical Miles 📃	Cameras Settings
Operator Application Window	Line Extension Speed		-0+ 🔽	Knots	
Roll And Ground Track Directions					Camera System
Pilot Application Window	Mission				
Navigation Elements	Misc				Show Advanced
Operator & Pilot Application Window Flight Line Extension	Automatically Select Next Flight Line Passing last capture point on the line will select the next flight line automatically			$\boxtimes$ =	Always Hide Navigation
Mission	Select Next Flight Line Delay Time after last ophare point and line it is a knowledged	·0	+	2 x =	Always Hide Sliders
Single Line Replan	Sub-plan, Split Line Threshold For sub-plan, don't split lines when number of unrequired capture points is less than account to		0.999901	5 =	
Capture	and advance		(1-1111)		Active Camera System:
V GPS/IMU	Single Line				PAS 150i
✓ Mount	Train Formula Balance Cost Contant			60	
Simulation	Time to zoom in to the comder		(0-300)	5 =	
General About	Interception Angle From Line If angle exceeds this value, auto zoom will not happen	· - 0	+ (2-90)	30 =	
	Corridor Width Relative To Screen Width Adjust the room level to make the corridor fit		- O + (10-50)	40 % =	1
	Show Dynamic Turn Arc In single line wew, show the dynamic turn arc or a straight line				Restore to Default
	Replan				Import
	Extra Points for Replanning Add works points on each end of replaceed capture points	· - 0	+ (0-10)	) =	Export
	Simulation				Close

2. Tap the required item. The related parameters appear.

Fiter	line	Units						Sys	tem Settings
	Application Presentation	Ground Speed		0	-+ 🔽	Knots	Ξ	Car	meras Settings
	Operator Application Window Roll And Ground Track Directions Nextsation Rements	Line Deviation Distance	0	0	-+ 🗸	Meters		Car	nera System
	Pilot Application Window	Distance		0		Nautical Miles			
	Navigation Elements	Altitude		0	-+ 🔽	Feet			Change Advanced
	Operator & Pilot Application Window Flight Line Extension	Capture Tolerance	0		-• 🔽	Meters			Ahvays Hide Navigati
	Missian	Line Extension Length		0	-+ 🖂	Nautical Miles			Alaman   Edu Cidere
	Misc. Single Line Replan	Line Extension Speed		0	-+ 🔽	Knots			Zinnays i lide siders
	Capture	Mission							Active Camera System
	GPS/IMU	Misc.							FAS 150
	Mount	Automatically Select Next Flight Line Passing last capture point on the line will relect the next flight line automatically	r			$\times$	=		
	General	Select Next Flight Line Delay		0	+	2		_	
	About	Sub-plan, Split Line Threshold For sub-plan, don't split lines when number of unrequired capture points is less than or equal to			12-01010	5	=		
		Single Line							
		Enter Seconds Before First Capture			10-3000	60		Res	nore to Default
		Interception Angle From Line If angle exceeds this value, auto zoom will not happen		0	+	30 * (Degrees)		Exc	port
		Corridor Width Relative To Screen Width		0		40			

## To undo the last change that you made to a parameter:

- 1. On the required parameter row,
  - tap 🗏 .

Navigation Elements			
Text Size Does not apply to map elements	- 0	+ [1-16]	10 =
On Map Text Size Text size of map elements (from flight plan)	- 0	+ 🗸	10 =
Flight Line Width	- 0	+ [1-20]	4
Rate One Turn Indicator Width Also known as "Mustache"	- 0	+ [1-20]	6 =

2. Tap **Undo**.

Flight Line Width	- 0	+ [1-20]	4	
Rate One Turn Indicator Width Also known as "Mustache"	- 0	+ [1-20]	6	Set to Default Undo

## To reset a parameter to its default value:

1. On the required parameter row,

tap 🗏 .

Navigation Elements		
Text Size Does not apply to map elements	- O	+ [1-16]
On Map Text Size Text size of map elements (from flight plan)	- 0	+ 🔽 10 =
Flight Line Width	- 0	+ [1-20]
Rate One Turn Indicator Width Also known as "Mustache"	- O	+

# PHASEONE

## 2. Tap Set to Default.

Flight Line Width	· 0	+ [1-20]	4 =	C.
Rate One Turn Indicator Width Also known as "Mustache"	- 0	+ [1-20]	6 Set	to Default

To reset all or a collection of parameters to their default values:

1. Tap Restore to Default.

Filters		Application Presentation				System Settings
	Application Presentation	Color Theme	0	+ 🗸	Day =	Cameras Settings
	Pperator Application Window Roll And Ground Track Directions Navigation Elements	Settings Text Size	· - 0	+ 🗸	16 =	Camera System
	Pilot Application Window	Operator Application Window				
	General Navination Elements	Roll And Ground Track Directions				Show Advanced
	Operator & Pilot Application Window	Show In Pilot View Show roll and ground track directions when 'Pilot' tab is relected			$\times$ =	Always Hide Navigation
	General Flight Line Extension Units	Show In Project View Show roll and ground track directions when "Project" tab is selected				Always Hide Sliders
	Mission Capture Tolerances	Drope Only Image Outline Show only the outline of an image droped on the map				Active Camero System:
	Misc. Single Line Replan	Show All Cameras Of Same Color Type Show on the mop all the images from the camera of the same color type (R NRS)	93/			PAS 150i
	Capture Camera	- Navigation Dements				
	iX Capture SPS/IMU	Text Size Does not apply to map elements	·	+ [1-16]	10 =	
	General Serial	On Map Text Size Text size of map elements (from flight plan)	0	+ 🗸	10 =	
	Ethernet Applanix T04 Logfile Mount Data GIM01 To Applanix GPS	Flight Line Width	· O	+	4 =	Restore to Default
	Applanix Application	Rate One Turn Indicator Width	0		6 =	Import
	General Connection	Also known as 'Mustache' Capture Point Size	· - 0	+	11 =	Export
	Simulation	Provide the first first			10	Close

2. Tap the required group checkboxes that you want to restore, tap **Restore to Default** then tap **Close**.

elect Groups of Settings to Restore:		Restore To Defai
Window Sizes And Positions		
General Seneral settings. UL etc.	$\times$	
Camera Local Settings Camera local settings, e.g. camera name, position, etc.	$\boxtimes$	
Camera System Configuration Camera System configuration, e.g. cameras layout	$\boxtimes$	
Device Setup Related to GPS. Mount and other device setup	$\boxtimes$	
Project Lists List of flight plans		
Ingging	$\overline{\times}$	
		Class



## A.1.3 System Parameters

## Note

In the following table, the parameters that can be viewed depend on the access level for that parameter as set by your company administrator (see Access Level below).

Category	Group	Parameter	Default Value	Description
Application	Appearance	Color Theme	Day	Black letters on white background.
Presentation		Settings Text Size	16	
Operator Application Window	Roll And Ground Track Directions	Show In Pilot View	On	Show roll and ground track directions when 'Pilot' tab is selected
		Show In Project View	Off	Show roll and ground track directions when 'Project' tab is selected
		Drape Only Image Outline	Off	When draping captured images on the DTM, show only a polygon outline (without the actual image).
		Show All Cameras of Same Color Type	Off	When you select from which camera images should be displayed, images from all cameras of that type (RGB or NIR) are displayed.
	Navigation Elements	Text Size	10	Does not apply to map elements
		On Map Text Size	10	Text size of map elements
		Flight Line Width	2	
		Rate One Turn Indicator Width	2	Also known as "Mustache"
		Capture Point Size	7	
		Flight Line Cross Size	16	
		Background Map Opacity	100	
		Airplane Symbol Size	30	



Category	Group	Parameter	Default Value	Description
Pilot Application	General	Show Pilot Window	On	Reflects whether the pilot window is visible or not
Window		Show Pilot Window at Application Start	On	Pilot Window always opens when application starts
		Pilot Window On Secondary Display	On	Always attempt to make pilot window fill secondary monitor
		Pilot Window Zoom Synchronized With Operator Window	Off	Pilot window zoom and map orientation follows the operator window
		Pilot Window Scale Setup	Standard	Used when pilot screen does not have same vertical and horizontal pixel size
	Navigation	Text Size	10	Does not apply to map elements
	Elements	On Map Text Size	10	Text size of map elements (from flight plan)
	•	Flight Line Width	2	Rate One Turn Indicator Width
		Rate One Turn Indicator Width	2	
	•	Capture Point Size	7	
		Flight Line Cross Size	16	
		Background Map Opacity	100	
		Airplane Symbol Size	30	



Category	Group	Parameter	Default Value	Description
Operator &	General	Capture Indicator	300 ms	Green/red bars appearing in top
Pilot		Duration		and bottom of operator/pilot view
Application	•	Track Deviation	3 degrees	
Window		Range		
· · ·		History Trail	5 minutes	
		Minutes		
		Project View -	10 captures	
•		Number Of		
• • •		Captures In Screen		
•		Rate One Turn 360	120 seconds	
		Duration		
			-	Change the map zoom level
		Enable Auto Zoom		automatically based on the selected
				flight line
		Auto Zoom	100	Set the maximum level of auto
		Amount		zoom
	Flight Line	Line Extension By	Distance	
	Extension	Line Extension	121 knots	
		Speed		
		Line Extension	300 seconds	
		Time		
	•	Line Extension	3 nautical miles	
	•	Length		
			Seconds	You can set the crosses to refresh
• • •		Crosses On Line By	· · ·	by time or distance from first
· · ·				image.
		Inner Cross	30 seconds	
•		Middle Cross	60 seconds	
		Outer Cross	90 seconds	
	Units	Ground Speed	Knots	
		Line Deviation	Meters	<u>-</u>
		Distance		
		Distance	Nautical Miles	
		Altitude	Feed	
		Capture Tolerance	Meters	
		Line Extension	Nautical Miles	
		Length		
		Line Extension	Knots	<u>.</u>
		Speed		

Category	Group	Parameter	Default Value	Description
Mission	Drape Images	Drape Images on the DTM within AOI	Enabled	When enabled, both the DTM and AOI must be available in the flight plan in order to fly.



Category	Group	Parameter	Default Value	Description
	Capture	Max Allowed	5%	Affects horizontal allowed band for
•	Tolerances	Sidelap Deviation	• • •	image taking.
· · ·	· · ·	•		A value that is too low is hard to fly
	: : :			and may cause loss of images.
			· · ·	A value that is too high may affect
			• • •	adherence to the contract-required
				sidelap.
		Override	Off	Set to On if you want to enter a
			•	calculated one
			20	
		Capture when	20 meters	Only used when the override option
		Is Within		
		Capture Outside Altitude Tolerance	On	Enable capturing outside altitude tolerance.
	•	Max Allowed GSD	10%	Affects the maximum altitude
	· · ·	Deviation		deviation.
	•	Target Speed	100 knots	For display purposes.
	•	Minimum Speed	80 knots	For display purposes.
	Misc.	Automatically	 On	Passing last capture point on the
		Select Next Flight		line automatically selects the next
M	· · ·	Line	· · ·	flight line
	· · ·	Select Next Flight	2 seconds	Time after last capture point until
	· · ·	Line Delay		next line is auto-selected.
	· · ·	Sub-plan split line	5 unrequired	For a sub-plan, flight lines are split
· · ·	· · ·	threshold	capture points	when the number of unrequired
	• • •			capture points on a line is greater
Tol Mis Sin	•			than the value you enter here.
		Large Flight Plan	1000 capture	Flight plans larger than threshold
		Threshold	points	defined here display a line-centric
				user interface.
	Single Line	Enter Seconds	60 seconds	Time to zoom in to the corridor
		Before First	· · ·	
 Mi Si	•	Capture		
	•	Erom Line	30 degrees	If angle exceeds this value, auto
			400/	
		Corridor Width	40%	Adjust the zoom level to make the
		Width		
		Show Dynamic Arc	Off	
		Turn		
	Renlan	Extra Points for	3	Specifies the number of extra
		Replanning	<b>v</b>	images to be captured around
			•	points selected for reflying.
•	•	:	:	



Category	Group	Parameter	Default Value	Description
Capture	Camera	Link Camera	Off	Links the properties for cameras
		Properties		defined as linked (RGB and NIR, if
•				present) so that manual
- - - -				adjustments to aperture, shutter
	•	•	:	speed, or ISO is incrementally
• • •				implemented on all linked cameras.
	iX Capture	Collaborate with	On	
•		Remote Computer		
	Applanix	Applanix IP	192.168.53.100	Should be the same as GPS
GPS/IMU	Application	Address		Ethernet address
• • •		Applanix	OpenApp	
•		Application		



Category	Group	Parameter	Default Value	Description
Mount	General	Mount Device	SomagiXFlightPro	
		Mount Angles	100 ms	
Category         Mount         Simulation         General		Update Rate		
		Mount Heading	On	
		Correction		
		Mount Roll and	On	
		Pitch Correction		
		Mount Correction	Stabilized	
		Mode		
		Mount Heading	Planned Heading	
		Direction		
		Time To Start Stab Mode	30 seconds	Related to first capture point on flight line
		Time To Stop Stab	2 seconds	Related to last capture point on
		Mode		flight line
		Activate Mount	Off	
	•	While Time		
		Mayering	1000	
Mount Simulation General	Connection	Mount Status	1000 milliseconds	
		Mount Reconnect	2000 millisoconds	<u>.</u>
		Timeout		
		Mount Connection	Serial	
		Mount Serial Port		<u>.</u>
		Mount Scrial Port	115200	<u>.</u>
Mount Angles Update Rate         100 ms           Mount Heading Correction         On           Mount Roll and Pitch Correction         On           Mount Correction         Stabilized           Mode         Planned Heading Direction           Time To Start Stab         30 seconds           Mode         Time To Stop Stab         2 seconds           Mode         Activate Mount         Off           Mode         On         Time To Stop Stab         2 seconds           Mode         Activate Mount         Off         Mount Reconnect         2000 milliseconds           Timeout         Mount Serial Port         1000 milliseconds         Timeout           Mount Serial Port         IS200         Baud Rate         SOMAG           SOMAG         Somag App Path         C:\Program Files (x86)\SOMAG_App.exe         Somag Application         Open App           Simulation         General         Activate Simulation         Off         Activate Simulation         Off           General         System recovery on failures         Continue flight on power loss         Off         Continue flight on power loss         Off         Continue flight on				
Simulation	SOMAG	Somag App Path	C:\Program Files	
			(x86)\SOMAG AG	
			Jena\SOMAG	
			Mount Control	
		· · ·	App 4.4\SOMAG_	
			App.exe	
·····		Somag Application	Open App	
Simulation	General	Activate Simulation Mode	Off	Activating overrides all other GNSS/GPS IMU settings
		Turn Behavior	Keep value	
	:	Altitude Behavior	Vertical Speed	
General	System	Continue flight on	Off	On system crash, restart system
	recovery on	crashes		and continue flight automatically.
	failures	Continue flight on	Off	On system power loss, restart
		power loss		system and continue flight
			:	automatically.



Category	Group	Parameter	Default Value	Description
		Max crash restarts	3	The maximum times a flight is
				continued after a crash.
• • •	Access Level	•	User	There are two access levels:
				• User - can only view parameters that are defined as basic (see below).
				<ul> <li>Company - if you access this password-protected level, you can view all parameters and set the visibility level for each System Settings parameters (see A.1.4 - Setting Access Levels for System Setting Parameters)</li> </ul>

## A.1.4 Setting Access Levels for System Setting Parameters

## To set the access level to Company:

	<b>Note</b> You need the company password to perfo	orm the procedu	ires in this section.	
1. 2.	In the Navigation panel, in the <b>General</b> cat On the <b>Access Level</b> row, tap , then tap <b>Access Level to</b> <b>Company</b> .	Access Levels Access Level Unicols ability to change access leve About	ess Levels. on all settings	User Access Level to User Access Level to Company
3.	Enter the password and tap <b>OK</b> .		Company password	Cancel
	The access level is now set to <b>Company</b> and you can set access levels for each system parameter as described in the procedure below.	Access Levels Access Level Unlocks ability to change a	ccess level on all settings	Company 📃



#### To set the access level for a system parameter:

## Note

This procedure requires that the access level is set to **Company** as described in the procedure above.

1. On the required parameter row, tap  $\equiv$  .

avigation Elements			
Text Size Does not apply to map elements	· O	+ [1-16]	10 =
On Map Text Size Text size of map elements (from flight plan)	- O	+ 🗢	10 =
Flight Line Width	- 0	+	4
Rate One Turn Indicator Width Also known as "Mustache"	· O	+ [1-20]	6 =

- 2. Tap Access Level and tap the required setting for that parameter as follows (the current setting appears in orange):
  - Basic parameter is visible to all.
  - Advanced parameter is visible to users with either basic or company access levels when the Show Advanced checkbox is selected (see A.1.2 - Using the System Settings Interface).

Set to Default	
Undo	
Access Level 🕨	Basic
	Advanced
Imp	Company

- Company parameter is visible only to those with company access level.
- 3. When you have completed setting access levels for the parameters, revert the access level back to User:
  - a. On the Access Level row, tap =, then tap Access Level to User.

Access Levels	
Access Level Unlocks ability to change access level on all settings	User
	Access Level to User
About	Access Level to Company

## A.2 Configuring Camera Settings

Camera settings for each camera are loaded from the cameras when the Controller is powered on. Changes you make to a camera setting are stored in the camera itself.

#### Note

- The maximum frames per second setting (Max FPS) is set globally for all cameras in iX Flight Pro.
- Some options shown in the images in this section may be different to what is available in your system.
- For options not shown below, contact Phase One.



## A.2.1 Accessing Camera Settings

## To configure the camera settings:

1. In the Home window, tap **Settings**.

rojectu	Open Project
Oblique 12.5 GSD5 3500 Kfar vitkin 150621	
Intificit Report Available	Add Project
55120-300mm Hadera ate created: A/29/2022 2:1533 FM Date Modified: A/29/2022 2:1534 FM	Rameve Project
	Diagnostics Logs
	Litense
	License

2. Tap Cameras **Settings**.

🔓 i	X Flight Pro										- 🗆 X
	< >	Right		Left		Nadir		Forward		Aft	System Settings
	Camera Name	Right	≡	Left	Ξ	Nadir	Ξ	Forward	Ξ	Aft 📃	Cameras Settings
	Camera Description										Camera System
	Camera Position	R	≡	Ľ	≡	ND	≡	F	Ξ		
	Group	⊂ Off	≡	Off	≡	Off Off	≡	Off	Ξ	Off ∃	Show Advanced

## A.2.2 Setting the Camera Name

#### To enter a camera name:

1. In Camera Name, enter a name to identify the camera. The column header is updated accordingly.

🖌 iX Flight Pro											- 0	×
< >	Right		Left		Nadir		Forward		Aft		System Settings	
Camera Name	Right	≡	Left	Ξ	Nadir	Ξ	Forward	Ξ	Aft	Ξ	Cameras Settings	
Camera Description											Camera System	
Camera Position	R			$\equiv$	ND	=	F	Ξ		=		
Group	Off		Off		⊂ Off		Off		Off	=	Show Advanced	



## Note

For PAS 880, cameras positions are identified by the production report according to the camera serial number.

## A.2.3 Removing a Camera

## To remove a camera from the iX Flight Pro:

1. In the required column header, tap the menu and tap **Remove**.

r iX Flight Pro										- 0
< >	Right	Ξ	Lef	t =	Nadir		Forward	Aft		System Settings
Camera Name	Right	R	emove	Left 📃	N	ladir 📃	Forward	Aft		Cameras Settings
Camera Description		Ξ							≡	Camera System
Camera Position	R	Ξ		L		ND =	F F	☐ A		
Group	⊂ Off	Ξ		Off 📃		Off =	Off	Off		Show Advanced

## A.2.4 Using the Camera Settings Interface

To use the Camera Settings interface efficiently, set the following controls as required:

• Show Advanced - tap the checkbox to toggle settings that are rarely changed on/off.

< >	Right		Left		Nadir		Forward	Aft		System Settings
Camera Name	Right		Left		Nadir		Forward	Aft		Cameras Settings
Camera Description		Ξ		Ξ		Ξ			Ξ	Camera System
Camera Position	R	Ξ	L L	Ξ	ND	Ξ	<b>▼ F ≡</b>	A	Ξ	
Group	⊂ Off	$\equiv$	Off	$\equiv$	Off	Ξ	off ∃	Off	=	Show Advanced



• **Column Width** - tap Column Width and select the width for the camera columns. The wider the width, the more you need to scroll left and right to view columns at each end of the window.

Add Camera < >	Right		Left		Nadir		Forward		Aft		< NIR	System Settings
Camera Name	Right	≡	Left	Ξ	Nadir	Ξ	Forward	≡	Aft	≡		Cameras Settings
Camera Description		≡		$\equiv$		=		≡		≡		Camera System
Camera Position	R	Ξ		=	ND ND	=	F	Ξ	A	Ξ		
Group	Off	Ξ	Off	Ξ	Off	Ξ	Off	Ξ	Off	Ξ		Show Advanced
Link	$\times$	≡	$\times$	$\equiv$	$\mathbf{X}$	=	$\times$	≡	$\times$	≡		Camera Power
Master Image Folder	E)	≡	D:\	$\equiv$	G:\	=	l:\iXFlight	≡	HA	≡		Max EPS 7 1
Slave Image Folder			E:\	$\equiv$								Trigger Interval 1 s
Disk Free Space	1879.426 GB / 10789 files	≡	Unknown	$\equiv$	1876.465 GB / 10772 files	=	1848.244 GB / 10610 files	≡	1880.471 GB / 10795 files	≡	1848.244 GB	Column Width 🔽 1
Image File Name	[CAM NAME]_L[LINE NU	Ξ	[CAM NAME]_L[LINE NU	=	[CAM NAME]_L[LINE NU	=	[CAM NAME]_L[LINE NU	Ξ	[CAM NAME]_L[LINE NU	Ξ	[CAM NAM	1
Compression		Ξ		=		=		Ξ		Ξ		Active Cam:
Ready To Capture						-				-		PAS 5
Camera Date & Time	Sync To PC 2023-09-	27 14:44	Sync To PC		Sync To PC 2023-09-	27 14:44	Sync To PC 2023-09-2	7 14:44	Sync To PC 2023-09-27	14:44	Sync To I	6

## To scroll the camera columns left or right:

1. Tap the left or right angle brackets as required.

< >			Left	Nadir	Forward	Aft 📃	System Settings
Camera Name	jht		Left =	Nadir	Forward	Aft =	Cameras Settings
Camera Description		Ξ		=	=	=	Camera System
Camera Position	R	Ξ		ND =	<b>▽ F ≡</b>		
Group	Off		off ∃	off ∃	off ∃	off ∃	Show Advanced

The next camera column appears.

< >	Right	Left	Nadir	Forward	System Settings
Camera Name	Right	Left =	Nadir 📃	Forward	Cameras Settings
Camera Description		=		=	Camera System
Camera Position	□ R =		ND =	<b>▽ F =</b>	
Group	off ≡	Off ∃	off ≡	off ∃	Show Advanced

#### To change the order in which camera columns appear:

1. Tap the headers of the column or columns you want to move.

< >	Right	< Left	>	Nadir	Forward	System Settings
Camera Name	Right	Left	=	Nadir	Forward	Cameras Settings
Camera Description	=		Ξ			Camera System
Camera Position	▼ R =	L I	Ξ	ND =	F =	
Group	Off ] ≡	Off	≡	Off =	Off	Z Show Advanced

#### Note

To unselect a column, tap it again.



2. Tap the left or right-angle brackets in a selected column(s) as required.

< >	Right		< Left 📃 🖻	Nadir 📃	Forward	System Settings
Camera Name	Right	Ξ	Left =	Nadir 📃	Forward	Cameras Settings
Camera Description						Camera System
Camera Position	R	Ξ			F =	
Group	Off	Ξ	Off ≡	Off ≡	Off ≡	Show Advanced

The column(s) are moved accordingly.

< >	< Left	>	Right 📃	Nadir	Forward	System Settings
Camera Name	Left		Right	Nadir	Forward	Cameras Settings
Camera Description		Ξ	=			Camera System
Camera Position	L L	Ξ		ND =	F ≡	
Group	⊂ Off		Off ⊒	Off =	off ∃	Show Advanced

3. Tap the selected column(s) to unselect them.

< >	Left	Right	Nadir	Forward	System Settings
Camera Name	Left 📃	Right 📃	Nadir 📃	Forward	Cameras Settings
Camera Description					Camera System
Camera Position	L =	R =		<b>▼ F ≡</b>	
Group	Off	Off Ξ	Off	Off ] ⊒	Show Advanced

## To undo the last change you made to a parameter:

1. On the required parameter row, tap  $\equiv$  .

r iX Flight Pro									- 🗆 X
<	> Left	=	Right		Nadir		Forward		System Settings
Exposure Mode		Manual 📃	Auto		Auto	=	Auto	=	Cameras Settings
ISO		50 📃	50		50	Ξ	50		Camera System
Aperture	$\bigtriangledown$	5.6	8.0		5.6	Ξ	5.6		Show Advanced
Shutter		1/2500	1/2500	≡	1/2000		1/2500	=	Max EPS 1

## 2. Tap Undo.

iX Flight Pro										- 0
< >	Left		Right			Nadir		Forward		System Settings
Exposure Mode	Manu	al		uto		Auto	=	Auto		Cameras Settings
ISO		io 🗖	Jndo	iO		50		50		Camera System
Aperture	5	.6	ollow Group Apply to All Cameras	.0	≡	5.6	≡	5.6	=	Show Advanced
Shutter	1/250	10	Set to Default	00	$\equiv$	1/2000	≡	1/2500	$\equiv$	Max EPS 1



## To reset a parameter to its default value:

1. On the required parameter row, tap  $\equiv$  .

< >	Left	Right 📃	Nadir	Forward	System Settings
Camera Name	Left 📃	Right =	Nadir 📃	Forward	Cameras Settings
Camera Description					Camera System
Camera Position				<b>▽ F ≡</b>	
Group	Off ] ≡	Off ≡	Off ≡	Off ≡	Show Advanced

## 2. Tap Set to Default.

Flight Pro										- 0
< >			Right			Nadir		Forward		System Settings
Camera Name	Left	] ≡		Right	Ξ	Nadir		Forward	Ξ	Cameras Settings
Camera Description		) =			Ξ				$\equiv$	Camera System
Camera Position	Γ ι			R	Ξ	ND	Ξ	F	$\equiv$	
Group	3			Off	Ξ	Off		Off	$\equiv$	Show Advanced
Master Image Folder	E:\iXFlight	1	Jndo	D:\iXFlight		G:\iXFlight		F:\iXFlight		Max FPS1
Slave Image Folder			Set to Default			HiVElight				Camera Power

## To apply a parameter value to all cameras:

1. On the required parameter row, tap  $\equiv$  .

😽 iX	Flight Pro													- 0	×
	< >	Lef	it		Right			Nadir		Forward				System Settings	
E	xposure													Cameras Settings	
	Exposure Mode	$\bigtriangledown$	Auto	$\equiv$		Manual	$\bigtriangledown$	Manual	$\equiv$	$\bigtriangledown$	Manual	Ξ	$\bigtriangledown$	Comore Sustan	
	ISO		50	Ξ		50 📃		50	Ξ		50	Ξ		Camera System	
	Aperture		5.6	Ξ		8.0		5.6	Ξ		5.6	Ξ		Show Advanced	

#### 2. Tap Apply to All Cameras.

a iX Flight Pro												- 🗆 X
< >	Left		Right			Nac	dir		Forward			System Settings
Exposure												Cameras Settings
Exposure Mode	Auto	≡	$\bigtriangledown$	Manual	$\equiv$	$\bigtriangledown$	Manual	$\equiv$	$\bigtriangledown$	Manual		Comuna Contorna
ISO	50	l	Jndo	50			50			50		Camera System
Aperture	56	F	ollow Group	0	=		5.6	=		5.6		Show Advanced
		/	Apply to All Cameras									
Shutter	1/2500	5	Set to Default	00	$\equiv$	$\bigtriangledown$	1/2000	$\equiv$	$\bigtriangledown$	1/2500	=	Max FPS 7

To reset basic camera parameters to their default values (Camera Name, Camera Description, Camera Position, Group, Master Image Folder, Image File Name):



## 1. Tap Restore to Default.

												Contorn Cattings
< >		Left		Right			Nadir		Forward			System Settings
posure												Cameras Settings
xposure Mode		Auto		Auto			Auto		Auto			Camera System
0		50	≡	50			50	$\equiv$	50	$\equiv$		
perture		5.6		8.0			5.6		5.6			Show Advanced
hutter		1/2500	Ξ	1/2500	Ξ		1/2000	$\equiv$	1/2500	Ξ		Max FPS 🔝
xposure Comp (EV)	$\bigtriangledown$	-0.3	≡	-0.3	≡		-0.3	Ξ	-0.3	Ξ		Camera Power
to Exposure Setup												Accessories Power
AE Priority		ISO/Shutter/Aperture	$\equiv$	ISO/Shutter/Aperture	$\equiv$	$\bigtriangledown$	ISO/Shutter/Aperture	$\equiv$	ISO/Shutter/Aperture	≡	$\bigtriangledown$	Trigger Interval 1
50 Min		50	Ξ	50	Ξ		50	$\equiv$	50	≡		Column Width
iO Max		320		400			320		320	Ξ		
perture Min	$\bigtriangledown$	5.6		5.6			5.6	Ξ	5.6			Active Camera System
perture Max	$\bigtriangledown$	5.6	Ξ	11			5.6	Ξ	5.6			PAS 880
hutter Min		1/1600	Ξ	1/1000	Ξ	$\bigtriangledown$	1/1600	Ξ	1/1600	Ξ		Restore to Default
hutter Max		1/2500	≡	1/2500	Ξ	$\bigtriangledown$	1/2000	=	1/2500	Ξ	$\bigtriangledown$	less t
oture Setup												Import
hutter Mode			≡		$\equiv$			Ξ		$\equiv$		Export
White Balance			_									

2. Tap the Camera Configuration checkbox, tap Restore to Default then tap Close.

indow Sizes And Positions	lect Groups of Settings to Restore:		Restore To Defau
ameral settings_UL etc.   imeral Settings_UL etc.   imeral Social Settings   imeral Sett	indow Sizes And Positions		
amera Local Settings   imera local settings, eg. camera name, position, etc.     imera System Configuration   imera System Configuration, eg. cameras layout     inter Settings     inter Settings <td>eneral Ineral settings. UI, etc.</td> <td></td> <td></td>	eneral Ineral settings. UI, etc.		
amera System Configuration ag. cameras layout meta System configuration, ag. cameras layout wice Setup agiest Lists offect Lists of feb Lists for fiber down	amera Local Settings mera local settings, e.g. camera name, position, etc.		
evice Setup Lated to GPS, Mount and other device setup oject Lists of flobe down	amera System Configuration amera System configuration, e.g. cameras layout	$\boxtimes$	
vject Lists	evice Setup elated to GPS, Mount and other device setup		
A VETINITY MULTIN	roject Lists st of flight plans		



## A.2.5 Additional Camera Settings Actions

## To set the maximum FPS globally for all cameras:

• Tap Max FPS and select the required maximum FPS for all system cameras.

< >	Left		Right		Nadir		Forward			System Settings
xposure										Cameras Settings
Exposure Mode	Auto	$\equiv$	Aut	•	Auto	$\equiv$	Auto	$\equiv$	$\Box$	Camera System
ISO	50	Ξ	S S	0 =	50	Ξ	50	Ξ		Camera System
Aperture	5.6	Ξ	8	0 =	5.6	Ξ	5.6	≡		Show Advanced
Shutter	1/2500	Ξ	1/250	0 =	1/2000	Ξ	1/2500			Max FPS
Exposure Comp (EV)	-0.3		-0.	3	-0.3		-0.3			Came

#### To toggle power to the cameras (appears only in supported systems):

1. Tap the Camera Power checkbox.

< >	Left			Right		Nadir			Forward				System Settings
posure													Cameras Settings
Exposure Mode	Auto	]≡		Auto	$\equiv$		Auto	≡		uto	≡		Camera System
so	50	∎		50	Ξ		50	≡		50	Ξ		
Aperture	5.6	≡		8.0	Ξ		5.6			5.6	≡		Show Advanced
Shutter	1/2500	≡		1/2500	Ξ	1	/2000	≡	1/2	500	Ξ		Max FPS
Exposure Comp (EV)	-0.3			-0.3			-0.3		$\bigtriangledown$	-0.3			Camera Power
ito Exposure Setup													Accessories Power
AE Priority	ISO/Shutter/Aperture	] ≡		SO/Shutter/Aperture	Ξ	ISO/Shutter/Ap	erture	≡	ISO/Shutter/Aper	ture	≡	$\bigtriangledown$	Trigger Interval 1
ISO Min	50	] ≡		50	Ξ		50	≡		50			Column Width
ISO Max	320	] =		400	Ξ		320	Ξ		320			
Aperture Min	5.6	] =		5.6	Ξ		5.6	≡		5.6	≡		Active Camera System
Aperture Max	5.6	] =		11			5.6	=		5.6			PAS 880
Shutter Min	1/1600	] ≡		1/1000	Ξ	▽ 1	/1600	=	□ 1/1	600	Ξ		Buston to Default
Shutter Max	1/2500	] ≡	$\bigtriangledown$	1/2500	Ξ	□ 1	/2000		1/2	500	=		Restore to Default
ipture Setup													Import
Shutter Mode													Export

## 2. Tap Yes.



To supply power to the system accessories (appears only in supported systems):



1. Tap the Accessories Power checkbox.

< >	Left			Right			Nadir		Forward		System Settings
posure											Cameras Settings
xposure Mode	Auto	$\equiv$		Auto	$\equiv$	$\Box$	Auto	Ξ	Auto	$\equiv$	Camera System
so	50	$\equiv$		50	=		50		50	Ξ	
Aperture	5.6	Ξ		8.0	Ξ		5.6		5.6	Ξ	Show Advanced
hutter	1/2500	Ξ		1/2500	Ξ		1/2000	=	1/2500	Ξ	Max FPS
xposure Comp (EV)	-0.3			-0.3			-0.3		-0.3		Camera Power
to Exposure Setup											Accessories Power
AE Priority	ISO/Shutter/Aperture	$\equiv$		ISO/Shutter/Aperture	$\equiv$		ISO/Shutter/Aperture	Ξ	ISO/Shutter/Aperture	$\equiv$	Trigger Interval 1
ISO Min	50	Ξ		50	Ξ		50	Ξ	50		Column Width
ISO Max	320	Ξ		400	Ξ		320	=	320	Ξ	
Aperture Min	5.6	≡		5.6	≡		5.6	$\equiv$	5.6	≡	Active Camera System
Aperture Max	5.6	Ξ	$\Box$	11			5.6	Ξ	5.6	Ξ	PAS 880
Shutter Min	1/1600	Ξ		1/1000	=		1/1600	Ξ	1/1600	Ξ	
Shutter Max	1/2500	=		1/2500	=		1/2000		1/2500	=	Restore to Default
apture Setup											Import
Shutter Mode											Export

#### 2. Tap Yes.

Wait!	
Are you sure you want to change the	e 'Accessories Power' ?

## A.2.6 Camera Parameters

## Note

- In the following table, parameters from **Camera Name** till **Image File Name** (inclusive) are stored in iX Flight Pro.
- All settings from **Compression** (in the **Camera** category) to the end of the table are stored in the camera itself.
- Ethernet must be disabled for PAS systems operation.
- HDMI must be disabled for PAS systems operation.



Category	Parameter	Default Value	Description
Camera	Camera Name	-	
	Camera Description	-	
	Camera Position	Undefined	Must be defined as required for system operation.
	Group	Off	You can group cameras into different groups. Any changes you make to parameter values (ISO, shutter, speed) for one camera is applied to all cameras in the group. For cameras in the same group, the column header background color is identical.
	Link	Off	If you link a camera, any increase or decrease that you make to a parameter (ISO, shutter, speed) is applied relatively to the other linked cameras. For example, if you increase the ISO by 2 increments, the ISO for all the other linked cameras is also increased by 2 increments.
•	Master Image Folder	:-	
	Slave Image Folder	-	Appears only for systems with dual-lens cameras.
	Disk Free Space	-	
	Image File Name	-	To define a template for the captured images file name:
			1. Click the menu icon.
			2. Click <b>Open Editor</b> . Apply To All Cameras Restore To Default
			3. In the File Name Builder window, select all required name parameters.          File Name Builder         [UINE NUM]_C[NUM IN LINE]_Cap[CAP NUM]_ID[CAM ID]         [GPS DATE]       [GPS TIME]         [GPS DATE]       [GPS WEEK.SEC]         [GPS CATE]       [GPS WEEK.SEC]         [GPS DATE]       [GPS WEEK.SEC]         [GPS CATE]       [GPS WEEK.SEC]         [GPS CATE]       [GPS WEEK.SEC]         [GPS CATE]       [GPS WEEK.SEC]         [GPS TIME]       [GOUNTER]         [CAM NAME]       [COUNTER]         [L_CA4 Cap1234_JIDC1234_JID       [OK]
			4. Click <b>OK</b> .
	Compression	IIQ L/IIQ S	Compression method is camera-dependent.
	Ready to Capture	-	Indicator – green when camera is ready.
	Camera Date and Time	-	Tap to sync date and time with PC.



## iX Flight Pro Operation Guide Appendix A. Configuring Settings

Category	Parameter	Default Value	Description
Exposure	Exposure Mode	Manual	Camera-dependent.
	ISO	-	
	Aperture		
	Shutter		
	Exposure Comp (EV)		
Auto	AE Priority		
Exposure	ISO Min		
: Setup	ISO Max		
	Aperture Min		
	Aperture Max		
	Shutter Min		
	Shutter Max		
Capture	Shutter Mode		
Setup	White Balance		
	Black Reference		
	Image Orientation		
	Preview Size		
Left Terminal	Terminal is		
	Baud Rate		
	GPS Receiver	Applanix	
Right	Serial Link		
Terminal	DJI Pos. Mode		
Storage	Local Storage		
Lens	Focus Distance Target		Relevant only for RSM AF lenses.
•	Focus Distance Actual		
	Focus Encoder Target		
	Focus Encoder Actual		
Service	Low Power Mode	· · · · · · · · · · · · · · · · · · ·	
	Restore To Default	· · · · · · · · · · · · · · · · · · ·	Restores camera properties to default settings.



Category	Parameter	Default Value	Description
Ethernet	:10G		Camera-dependent.
	Static Setup		
	IP Address		
	Netmask		
	Gateway		
•	DHCP		
•	DHCP Address		
	Setup Status		
	Apply Now		
	Apply On Restart		
:	Revert Changes		
•	Bonjour Enabled		
	Bonjour At Power On		
	Bonjour Is Running		
HDMI	HDMI Live View		
	HDMI Overlay		
	HDMI Layout		
•	HDMI Mode		
	Transparency		
	Preview Timeout		
	Preview Orientation		
· · ·	Preview Size		
:	Focus Peaking		
	Focus Peaking Threshold		

## Note

About Camera and About Lens parameters show read-only values.



## A.3 Viewing the Camera System

## To view the current camera system:

1. In the Home window, tap **Settings**.

i ght Pro		- 0
Projects:	Open Project	- 4
Oblique 12.5 GSD5 3500 Kfar vitkin 150621 Date created: G07/002 7:5233 AM Date Modified: 3/15/2022 2:09:44 PM	Add Project	
Post/light/Report Available		
GS120-300mm Hadera Date created: 8/79/2022 2:15:31 PM Date Modified: 8/29/2022 2:15:34 PM	Remove Project	
	Diagnostics Logs	
	Licence	
	Settings	
	Exit	

## 2. Tap Camera System.

						System Settings
Camera Systems	Name: PAS 880					Cameras Settings
PAS 880	Cameras:					Camera System
	Short Name:	R				
	Position:		I	Right		
	Туре:			RGB		Active Camera Syste
	Orientation:		ſ	None		PAS 880
	Yaw Pitch Roll:	0	0	0	F	
	Physical Camera:	MM01	1222			
	Short Name:	A			L ND R	
	Position:			Back	Α	
	Туре:			RGB		
	Orientation:		ſ	None		
	Yaw Pitch Roll:	0	0	0		Restore to Default
	Physical Camera:	MMOT	2010			Import
	Short Name:	ND				Export
						due

The current camera system appears.



# Appendix B. Exporting and Importing Settings

## **B.1 Exporting Settings**

You can save iX Flight Pro settings to an external file for backup or for transfer to another Controller.

#### To save iX Flight Pro settings to an external file:

1. In the Home window, tap **Settings**.



#### 2. Tap Export.

< >	Left		Right		Nadir		Forward			System Settings
iposure										Cameras Settings
Exposure Mode	Auto	=	Auto		Auto		Auto			Camera System
s0	50		50		50		50			
kperture	5.6	=	8.0	Ξ	5.6	Ξ	5.6	=		Show Advanced
Shutter	1/2500		1/2500		1/2000		1/2500			Max FPS 🗢
Exposure Comp (EV)	-0.3		-0.3		-0.3		0.5		$\nabla$	Carnera Power
to Exposure Sctup										Accessories Power
AE Priority	ISO/Shutter/Aperture		ISO/Shutter/Aperture		ISO/Shutter/Aperture		ISD/Shutter/Aperture			Trigger Interval
SO Min	50		50		50		50			Column Width 🔝
SO Max	320	Ξ	400	Ξ	320	Ξ	320	Ξ		
Aperture Min	5.6	=	5.6	Ξ	5.6	Ξ	5.6			Active Camera Syste
iperture Max	5.6		11		5.6		5.6			PAS 880
ihutter Min	1/1600	=	1/1000	Ξ	1/1600	Ξ	1/1600	=		
Shutter Max	1/2500		1/2500		1/2000		1/2500			Restore to Default
phare Setup										Import
hutter Mode		=		=		Ξ		Ξ		Export
White Balance	Aerial		Davlight		Aerial		Aerial			Close

 Navigate to the Controller folder where you want to save the .set file, provide a different file name if required and tap Save.

😪 Export Settings						;
$\leftarrow \rightarrow  \uparrow$ $\blacksquare$ > This PC > Deskto	p >		,	<u>م</u> رو	Search Desk	top
Organize 🔻 New folder						iii • 🔞
📃 Desktop 💉 ^ Name	^	Date modified	Туре	Size		
Downloads * COM_Po	rtReset	5/22/2022 2:50 PM	File folder			
🗄 Documents 🖈 🗧 COM_Po	rtReset_1	5/22/2022 1:53 PM	File folder			
📰 Pictures 🛷 🔂 DELETE N	1E	3/13/2022 2:35 PM	File folder			
iXCapture iXFP v32	long flight	3/28/2022 5:48 PM	File folder			
iXFlight iXPlan_Pr	ojects	2/10/2022 3:05 PM	File folder			
Mission 2022-05		2/17/2022 12:53 PM	File folder			
Mirrion 2022-05	er	3/1/2022 2:14 PM	File folder			
OneDrive	880i Camera system.set	10/6/2022 2:12 PM	SET File	6	KB	
This PC						
3D Objects						
Desktop						
~						
File name: iXFlightProSettings.set						
Save as type: Settings file (*.set)						
∧ Hide Folders					Save	Cancel



4. When the settings are successfully exported, tap **OK**.

Export
Settings successfully exported to: D:\iXFlightProSettings.set
ОК

## **B.2 Importing Settings**

You can import all or subsets of the iX Flight Pro settings that were previously exported to an external file (see B.1 - Exporting Settings).

## Note

Settings are imported according to your access level (see Access Level).

## To import iX Flight Pro settings from an external file:

1. In the Home window, tap **Settings**.

ectu	Ann Bailest
blique 12.5 GSD5 3500 Kfar vitkin 150621 Is created: 4/07/08/9 752-39 AM - Date Medified: 3/15/08/9 20944 PM	Add Project
Sight Report Available	
120-300mm Hadera eventel: A04/087 2+531 PM_Date Modified: A04/057 2+554 PM	Ramere Project
	Disprovito Loga_
	License
	Settings

## 2. Tap Import.

< >	Left		Right		Nadir		Forward		System Settings
posura									Cameras Settings
Exposure Made	Auto	=	Auto		Auto		Auto		Camera System
50	50		50		50		50		
perture	5.6	Ξ	8.0	Ξ	5.6	=	5.6	Ξ	Show Advanced
hutter	1/2500		1/2500		1/2000		1/2500		Max FPS 🗢
xposure Comp (EV)	-0.3		0.1		0.1		-0.3		Camera Power
to Exposure Sctup									Accessories Power
E Priority	ISU/Shutter/Aperture		ISO/Shutter/Aperture	$\equiv$	ISU/Shutter/Aperture		ISU/Shutter/Aperture		Trigger Interval
50 Min	50		50		50		50		Column Width 🔝
iO Max	320	Ξ	400	Ξ	320	=	320	Ξ	
perture Min	5.6	=	5.6	=	5.6	Ξ	5.6	$\equiv$	Active Camera Syste
perture Max	3.6		11		5.6		5.6		PAS 880
hutter Min	1/1600	=	1/1000	Ξ	1/1600	=	1/1600	Ξ	
hutter Max	1/2500	=	1/2500	Ξ	1/2000	=	1/2500	Ξ	Nestore to Default
ture Setup									Import
hutter Mode									Export
									du.



iX Flight Pro Operation Guide Appendix B. Exporting and Importing Settings

3. Tap the required group checkboxes that you want to import and tap **Import**.



4. Navigate to the Controller folder where the settings file you want to import is located, select the required file and tap **Open**.

→ ` ↑	is PC → Deskto	p		∽ ē	, Search Desktop
ganize 👻 New folde	er				III 👻 🔲
Quick access	^	Name	Date modified 5/22/2022 2:50 PM	Type File folder	Size
Desktop Downloads	*	COM_PortReset_1	5/22/2022 1:53 PM	File folder	
Documents	*	iXFP v32 long flight	3/28/2022 5:48 PM	File folder	
iXCapture	~		2/17/2022 3:03 PM	File folder	
iXFlight Mission 2022-05-22 1	14.10.27 GM	IXFlightProSettings.set	3/1/2022 2:14 PM 10/11/2022 2:01 PM	SET File	13 KB
Mission 2022-05-22	14.51.21 GM	WFC and 880i Camera system.set	10/6/2022 2:12 PM	SET File	6 KB
OneDrive					
This PC 3D Objects					
Desktop	~				
File na	ame: XFlightPr	oSettings.set		~	Settings file (*.set)

5. When the settings are successfully imported, tap **Close**.




# Appendix C. Using the Simulator

### To use Simulation Mode:

- 1. In System Settings, scroll down to Simulation.
- 2. Select the Active Simulation Mode checkbox.
- 3. Set the other parameters as required.

Simulation General	
Activate Simulation Mode	$\times$
Turn Behavior	Keep value
Altitude Behavior	Equal Jumps

The following keys can be used to control the flight in Simulation Mode:

Key	Simulation Mode Function
F1	Decrease speed
F2	Increase speed
Cursor Up	Increase vertical speed
Cursor Down	Decrease vertical speed
Cursor Left	Bank to left
Cursor Right	Bank to right
Spacebar	Pause



## Appendix D. Requesting and Installing a License

iX Flight Pro is preinstalled on certain Phase One Controllers.

If you installed iX Flight Pro on a PC, you need to request a license from Phase One and install it.

#### To request a license from Phase One:

1. In the Home window, tap License.



2. Tap Request License.



1. Navigate to the Controller folder where you want to save the LicenseRequest.c2v file and tap Save.





2. Follow the instructions in the License Information window then tap **Close**.



### To install the license:

- 1. Save the .v2c file you received from Phase One in a folder in the Controller.
- 2. In the Home window, tap **License**.

figr Pa		- 0
Projectu	Over Reject	( <b>†</b>
Oblique 12.5 GSD5 3500 Kfar vitkin 150621	a de la competante	
Postigie legent Auditie	Add Project	
GS120-300mm Hadera	Remove Project	
Date created: 8/29/2002 215.11 PM Date Modified: 8/29/2022 215.14 PM		
	Disgnostics Logs	
	License	0
	Settings	
	Exit	
	Settings Exit	

3. Tap Install License.





4. Navigate to the Controller folder where you saved the .v2c file and tap Open.

License Information:						License Info
/xml version="1.0" encodio	-"UTF-8"}>					
(hasp_inds) (hasp_iot_sope> (hasp_id="54943452035554021"> (vendor: [d="27226")>					Install License	
Save As	_content set oparte_content s				×	Request License
← → · · · · · · · · · · · · · · · · · ·	ownicads		v 8	P Search Down	loads	
Country of Manufacture						
A Nam	* Date	te modified Time	Site		kei • 😈	
Quick access     Desitop #		No items match your search.				
Downloads #     Documents #						
Pictures 💉						
Google Drive 🖈						
iX Flight Pro						
<ul> <li>JP</li> <li>Transition</li> </ul>						
Templates						
OneDrive - Phase						
Desktop 🗸						
File names LicenseReque	24				~	
Save as type: License reque	ile (.c2v) (*.c2v)				~	
A Hide Folders				Save	Cancel	
TD4cnquB3k3p nAr129RH1EfW g/WGHHDQB++ Cbk3l+nDb83 b1FocqamWz3q /dZdw1QDv250 V8257E805N5E 34V5KL9q1m57	+kCcnBExDTUbXLrps9KEXsPQaqdnb 5M kpcmq-qs8ExVCg1v1gBr31/boTaho- y7KXLrPInruHtBv13PMs9qEBP y4XXLrHc82xPT4gTP15xrTED05xU0ra cestBickcondexCVxeekFrkvgRe1spT T6fg107fE4hBHLBCp+y8k-(s)fB72c1 studsDMRv35Sxr1yrx2FdQ01_F8kTg StudsDMRv35Sxr1yrx2F4d01_F8kTg StudsDMRv35Sxr1yrx2F4d01_F8kTg StudsDMRv35Sxr1yrx2F4d01_F8kTg StudsDMRv35Sxr1yrx2F4d01_F8kTg StudsDMRv35Sxr1yrx2F4d01_F8kTg StudsDMRv35Sxr1yrx2F4d01_F8kTg StudsDMRv35Sxr1yrx2F4d01_F8kTg StudsDMRv35Sxr1yrx2F4d01_F8kTg StudsDMRv35Sxr1yrx2F4d01_F8kTg StudsDMRv35Sxr1yrx2F4d01_F8kTg StudsDMRv35Sxr1yrx2F4d01_F8kTg StudsDMRv35Sxr1yrx2F4d01_F8kTg StudsDMRv35Sxr1yrx2F4d01_F8kTg StudsDMRv35Sxr1yrx2F4d01_F8kTg StudsDMRv35Sxr1yrx2F4d01_F8kTg StudsDMRv35Sxr1yrx2F4d01_F8kTg	RQVIp192IA870Pt05qgf =59r2dqnf2p50L/HsV0F 0)gQDTU10400pi18AA2 ab30g3MBCIPeL0440KuL :20XHCG7F1pPR0XuR5q3 g6f02cIrvMb2q0F1AuCo8 gHexmc72IALp1AA83PL				

5. Follow the instructions in the License Information window then tap Close.

