Alaris Pro



Office of Integrity, Safety, and Compliance Flight Operations



Logging In https://www.alarispro.com

Once your Flight Ops has created your account you can log in with the following steps:



Account Sign In

If you already have an account, please sign in below:

Login required

Password required

Show Password

Sign In Now
Forgot your password?
Of
G Sign in with Google
Note: The Single Sign On module is an optional feature
and may not be enabled for your login.



Logging In



To continue, Google will share your name, email address, language preference, and profile picture with amazoncognito.com. Before using this app, you can review amazoncognito.com's **privacy policy** and **terms of service**

Welcome Emily EMSH3404

emsh3404@colorado.edu

Bac

Choose a profile to sign in:

emsh3404@colorado.edu CU Flight Ops I Pilot

Shindle_#OISC CU OISC | Pilot

or Add a New Profile Association



Welcome Emily EMSH3404

emsh3404@colorado.edu

If you already have an account, please sign in below:

Login
emsh3404@colorado.edu
Password
Bhow Password
Associate and Sign In
Forgot your password?
Back to Sign In





Dashboard and General Usage

The Dashboard is the Home base of Alaris Pro. It houses lots of easy access, useful information.

		prese energy and prese when a prese that a star a			ana a bala a ana ana a ana at		Mark Selected as	Read Alert	Histor
Flight Operations		Aug 03, 2022 18:43 UTC - Alert for 7	Twin Otter: Replacement recor	mmendations for the folle	owing components ha	ve changed from 50 fligh	it hours to 100 flight he	purs: Servo -	
CU Flight Ops	A	leron - Leit Servo - Alleron - Right Serv	vo - Elevator Servo - Flap - Le	it Servo - Flap - Right S	ervo - Rudder Any ext	ensions for these compo	nents nave been rese		
Tue Feb 21 2023 11:36:44	100%	UAS Readiness Readiness for entire fleet as of Mon Feb	20 2023 16:29					2	1
Mon alick men to ave		UAS	Total Hours	Total Cycles	Avg. Flight Hours/Mo.	Avg. Cycles/Mo.	Avg. Flight Hours/Cycle	UASN	lotes
		Mavic Air 2/2S - 123	30.8	81	0.0	4.1	0.0	B	
	~ •	Mavic Mini (series) - 123	41.5	141	0.6	7.1	0.1	B)	
	evette 🕑	EC-1500 - 123	1.0	6	0.0	0.5	0.0	B	
230 Louisville	0	Twin Otter - 123	75.5	303	0.0	6.9	0.0	B	
Superior	Proje	ct Events							
	B Event	Project Na	ame	UAS		Pilot(s)	Date	/ Time	
ALARISPRO Omenado	0								
100% Pilot Readiness									
Chase Rupprecht	•								
A Daniel Hesselius									



Favorite UAS

When a user enters the dashboard for the first time there will be no UAS visible. To see UAS we need to add them to favorites.

act Events					
	Project Name	UAS	Pilot	(5)	Date / Time
	0 Dashboard	Preflight▼ Fligh	t ▼ Maintenance ▼ M	lanage 🔻 Help 🔻	
Favorites	7	Madal	Cardel Mu		Fruit
Wanutacturer		Model	123	mber	Favorite
D.II	Mavic Air	11/5	120		
DJI	Mavic Air	zizo	123		
DJI DJI E-Flite	Mavic Air Mavic Min EC-1500	zizs ii (series)	123 123		습 슈 슈

Favorite UAS / UAS Status

100%	UAS Readiness Readiness for entire fleet as of Mon Feb 20 2023	16:29					2	*
	UAS	Total Hours	Total Cycles	Avg. Flight Hours/Mo.	Avg. Cycles/Mo.	Avg. Flight Hours/Cycle	UAS Notes	R.
0	Mavic Air 2/2S - 123	30.8	81	0.0	4.1	0.0	B .	
Projec	t Events							
Event	Project Na	me	UAS		Pilot(s)	Date	e / Time	
1								

100%	UAS Readiness Readiness for entire fleet as of Mon Feb 20 2023 16:29						2 🖈
	UAS	Total Hours	Total Cycles	Avg. Flight Hours/Mo.	Avg. Cycles/Mo.	Avg. Flight Hours/Cycle	UAS Notes
Ø	Mavic Air 2/2S - 123	30.8	81	0.0	4.1	0.0	₿ ▲



Component	Upcoming Maintenance Due
Propeller #1	19.3 Flight Hours Until Replacement
Propeller #2	19.3 Flight Hours Until Replacement
Propeller #3	19.3 Flight Hours Until Replacement
Propeller #4	19.3 Flight Hours Until Replacement
Upcoming Preventive Maintenance	19.3 Flight Hours Remaining Until 2nd Level PM
No Critical Discrepancies	
No Inspection Items	

By selecting the UAS the user can see the status and upcoming maintenance of the vehicle!



Pilot Readiness



On the left side of the dashboard users can view the pilot readiness of pilots in their department. Click on a pilot for more information.

100%	Pilot Readiness	
🕑 Chase	e Rupprecht	
 Pilot Ce Current 	ertification Through - Apr 30, 2024	
 90 Day Current 	Currency Through - May 03, 2023	
Night F Yes	light	
On Can Yes	npus	
Difficult No	y Level 2 Multirotor	
Difficult No	y Level 3 Multirotor	
Twin Of No	ter	



Pilot Readiness

100%	Pilot Readiness	
Chase	e Rupprecht	
💧 Danie	l Hesselius	
 Pilot Ce Current 	rtification Through - Aug 01, 2024	
90 Day Expirin	Currency g Soon - Mar 20, 2023	
Night Fl Yes	ight	
On Can Yes	npus	
Difficulty Yes	y Level 2 Multirotor	
Difficulty Yes	y Level 3 Multirotor	
Twin Ot Yes	ter	
Emily	Shindle	

Notice that Alaris will display your certification status as well as your flight currency. A yellow warning alerts a pilot that a certification or currency is expiring soon. Scrolling down will display more information about total rotor and fixed wing hours.

Night Flight Yes		
On Campus Yes		
Difficulty Level 2 Mult Yes	irotor	
Difficulty Level 3 Mult Yes	irotor	
Twin Otter Yes		
EC-1500 Yes		
Total Rotor Hrs 1,250.7	Total FW Hrs 6,532.0	



Help Tab - Useful Documentation

If any uncertainty arises Alaris Pro has extensive documentation that can be accessed in the help tab in the top row.

	Dashboard Preflight -	Flight -	Maintenance Manage	Help •	
				User Dashboard Guide	
Flight Operations			Aug 03, 2022 18:43 UTC - Alert fo	Frequently Asked Questions (FAQ)	fo
CU Flight Ops		P	Aileron - Left Servo - Aileron - Right S	Video Library) -
Tue Feb 21 2023 11:27	7:48	100%	UAS Readiness Readiness for entire fleet as of Mon F	Request Help	
				Reference	
Map	click map to expand		UAS	Acronyms	le
indp		Ø	Mavic Air 2/2S - 123	Alaris Small UAS Maintenance Guide	
		0	Mavic Mini (series) - 123	Motor Nomenclature	
	45	0	EC-1500 - 123	API Documentation	
Ť	Lafayette	0	Twin Otter - 123	Release Notes	

The Video Library is especially useful to get started with basic functionality!



Pilot Profiles

To view your pilot profile and make changes to your username and password, select the blue pilot in the top right of Alaris Pro.



Preflight ▼ Flight ▼ Maintenance ▼ Manage ▼ Help ▼

Pilot Profile Editor 1 Login Name * Pilot Name *Indicates required field chru9677@colorado.edu Chase Rupprecht Password (See Requirements) *Type of Pilot Certification Held Other ~ Confirm Password *Pilot Certification Expiration 04/30/2024 Class of medical ☐ Show Password Drivers License v Exp. Date on Latest Medical Certificate *Pilot Email chru9677@colorado.edu Pilot Phone Receive Email Notifications +18473472912 Show How-to Tutorials Is the Pilot designated an Instructor of the organization?



Pilot Profiles

This page will also show total flight hours and simulation hours

UAS Flight Time			
Do not include manned aircraft pilot time.			
Rotor UAS		Fixed Wing UAS	
Most Recent Flight Date		Most Recent Flight Date	
02/02/2023		08/30/2022	
Total Flight Time		Total Flight Time	
Hours	Minutes	Hours	Minutes
5	57	0	50
UAS Simulation Time Include unmanned simulator time only.			
Rotor UAS Simulator		Fixed Wing UAS Simulator	
Most Recent Rotor Simulation Date		Most Recent Fixed Wing Simulation Date	
Date		Date	
Total Rotor Simulation Time		Total Fixed Wing Simulation Time	
Hours	Minutes	Hours	Minutes
0	0 11 10 10 10 10 10 10 10 10 10 10 10 10	0	0



Preflight Actions



Safety and Checklists

FOM Rev 5 preflight requirements integrated into Alaris Pro:

Flight Risk Assessment Tool (FRAT)
Online preflight checklist

• NOTAMs must still be filed in Flight Service



- Goals:
 - Minimize flight risk
 - Encourage pilots to fly safe missions
- 48 hours before flight

Risk Factors:

CREW	Environmental Factors	Aircraft / Equipment
	UAS Airport Proximity	Battery Capacity
UAS Currency	UAS Proximity To Pilot	Aircraft Weight
Pilot Experience	UAS Proximity to Airspace Violation	Payload Cost
# of Crow	Fire Conditions add fire weather scale	UAS Cost
# Of Crew	Crowd Provinity	Take off Procedure
Fatigue	CIUM Operations	Autopilot
	SUA Operations	



Risk Thresholds and Approval:

Level 0 - no or insignificant risk \rightarrow no approval required

- Level 1 Minor Risk \rightarrow requires flight operations approval
- Level 2 Moderate risk \rightarrow requires flight operations approval

Level 3 - Significant risk \rightarrow requires DO approval

/					
	Dashbaar	d Droflight	Flight V Maintenance V	Manage 🔻	Help 🔻
	Dashbuar	u Freilight V			
ALARISP	RO Dastibuar	u Freinght•			
ALARISP Create New Form		u rteiligitt♥			
ALARISP Create New Form					
Create New Form	Signal Dashboar	ol (FRAT) For	ms () and 2/21/2023		A Guidance
Create New Form Flight Risk A Currently showing all Select Start Date	Select End Date	ol (FRAT) For ed between 1/22/2023 Filter by Status	and 2/21/2023.		A Guidance
Create New Form Flight Risk A Currently showing at Select Start Date 1/22/2023	Select End Date 2/21/2023	ol (FRAT) For ed between 1/22/2023 Filter by Status View All	ms i and 2/21/2023.		FAA Guidance
ALARISPE Create New Form Flight Risk A Currently showing at Select Start Date 1/22/2023	Select End Date 2/21/2023	ol (FRAT) For ed between 1/22/2023 Filter by Status View All	ms i and 2/21/2023.		FAA Guidance
Create New Form Flight Risk A Currently showing at Select Start Date 1/22/2023	Select End Date 2/21/2023	ol (FRAT) For ed between 1/22/2023 Filter by Status View All	ms () and 2/21/2023.		FAA Guidance Close Apply filter



Be sure to enter a title and that the PIC is selected as the pilot. Then complete the form matching risk factors to your mission conditions.

Add Flight Risk Asses	ssment Tool (FRAT) Form	n 🚺			FAA Guidance	Back to All Forms
					*Ir	dicates required field
* Title			*Pilot			
A description of the flight			Chase R	upprecht		
Risk Factor	Condition		Risk Value	Mitigation Strategy	Post Mitigation Ris	sk Value
I. Crew Factors						
UAS Currency	Select	~		Mitigation Strategy	Post Mitigation Risk Va	lue
Pilot Experience	Select	~		Mitigation Strategy	Post Mitigation Risk Va	lue
# of Crew	Select	~		Mitigation Strategy	Post Mitigation Risk Va	lue
II. Aircraft & Equipment Fa	ictors					
Battery Capacity	Select	~		Mitigation Strategy	Post Mitigation Risk Va	lue
Aircraft Weight	Select	~		Mitigation Strategy	Post Mitigation Risk Va	ilue
Payload Cost	Select	~		Mitigation Strategy	Post Mitigation Risk Va	lue
UAS Cost	Select	~		Mitigation Strategy	Post Mitigation Risk Va	lue
Take off Procedure	Select	~		Mitigation Strategy	Post Mitigation Risk Va	lue
Autopilot	Select	~		Mitigation Strategy	Post Mitigation Risk Va	ilue
III. Environmental Factors						
UAS Airport Proximity	Select	~		Mitigation Strategy	Post Mitigation Risk Va	lue
UAS Proximity To Pilot	Select	~		Mitigation Strategy	Post Mitigation Risk Va	lue



To aid in the approval process the user can add risk mitigation strategies and what they think the appropriate risk score should be in the "Post Mitigation Risk Value" column

Example	e: "I have flown simila	ar UAS ty	rpes"	Pilot's new risk score
Update Flight Risk	Assessment Tool (FRAT) Form 1			Arr A Gui Jance Back to All Form
*Title		*Pilot		*Indicates required f
Risk Factor	Condition	Risk Value	Vitigation Strategy	Post / litigation Risk Value
I. Crew Factors				
UAS Currency	Current 0 - 30 days (Risk Value: 0)	0	Mitigation Strategy	Port Mitigation Risk Value
Pilot Experience	< 10 flights on UAS type (Risk Value: 7)	7 🤇	Mitigation Strategy	3
# of Crew	2 Crew members (Risk Value: 0)	0	Mitigation Strategy	Post Mitigation Risk Value



At the bottom of the form the user can add any additional remarks and select the status of their frat. Pilots will not be able to approve their own FRAT, so they must select pending approval and add to submit the FRAT.

Fire Conditions	Select	~		Mitigation Strategy	Post Mitigation Risk Value	
Crowd Proximity	Select	~		Mitigation Strategy	Post Mitigation Risk Value	
SUA Operations	Select	~		Mitigation Strategy	Post Mitigation Risk Value	
		Totals	0		0	
Notes		C	Current St	atus	*New Status	
Notes about this update of the FR	AT	1	Draft		Select Select	~
					Pending Approval	
					Finalized Deleted	
	Current Status		* N	ew Status		
	Draft		S	elect	~	

*Please fix the above errors. If you'd like to save an incomplete form, select the Draft status.

Totals:

0 Pre



Once the FRAt is submitted as pending approval, the user will be prompted with the following screen. It is recommended that the user select the send approval request email button to alert the administrator who needs to approve the flight.

Notify Approvers (optional)	Back To All Fo
Optionally notify an approver that your FRAT is complete and ready to be approved.	
UCBFlightOps#Admin	
Send Approval Request Email	
Approval Request Email	
This is the email that will be sent when you click "Send Approval Request Email".	
Subject: Elevated Risk Approval Request - AlarisPro Flight Risk Assessment Tool (FRAT)	
Chase Rupprecht from your organization has requested your approval on a FRAT form with an elevated risk.	
FRAT Title: Chase Test Total Risk: 105	
(Mitigated Total Risk: 3)	
Risk Level: Level 3	
Please follow the instructions below to review this request:	
1 Login to www.AlarisPro.com.using.vour.credentials	
r. Edgin to mmanian recom dang your crodondula.	
 Navigate to the "Preflight" tab at the top of the page and select "Flight Risk Assessment Tool (FRAT)" from the dropdown. Select the form titled "Chase Test" from the forms table to review the FRAT. 	



- UAS operational checklist
 - Preflight and Postflight
- Drone specific operational checklists if applicable

Checklists in Alaris Pro

Selec	t Checklist	A
	Title	Group
ĭ≡	UAS Operational Checklist - Postflight	
í≡	UAS Operational Checklist - Preflight	
1		



Checklists in Alaris Pro

Title: UAS Operational Checklist - Preflight

Pre-Flight Action

NOTAM

Maitenance Issues Resolved

FRAT Submitted

No Red Flag warnings or Fire Weather watches in effect

Title: UAS Operational Checklist - Preflight

Pre-Flight Action

NOTAM

Maitenance Issues Resolved

FRAT Submitted

No Red Flag warnings or Fire Weather watches in effect



Checklists in Alaris Pro

Date Discrepancy box for those out of service. Use a paper checklist during the operation and fill out the electronic version when in service.

Before Takeoff

Complete Pre-Flight Briefing Takeoff Location Clear

Aircraft Ready for Takeoff

Date Discrepancy?



WARNING



Postflight Actions



Pilot Logbooks

Digital Pilot Logs in Alaris Pro

• No more spreadsheets!

• Mobile app in development

Logging a Flight

- Go to Flight Tab
- Click Single Pilot Log
- DOUBLE CHECK IT IS YOUR NAME IN THE PILOT SECTION
- The 'Location' section of this log does not replace the NOTAM requirement. NOTAMs still need to be filed in time.



Pilot Logbooks ALARISPRO Dashboard Preflight • Flight **v** Maintenance • Reports Manage 🔻 Help 🔻 Add New Flight Log Single Pilot w alerts. Fight Operations Training AS Readiness eadiness for entire fleet as of Thu Feb 09 20 CU Flight Ops Multiple Pilot Thu Feb 09 2023 13:44:12 Import Flight Logs UAS Smart Log Mavic Air 2/2S - 123 Map clic Telemetry File Mavic Mini (series) - 123 Т View / Edit Flight Logs EC-1500 - 123 View / Edit Historical Logs -Twin Otter - 123 Ø 子



Pilot Logbooks

The Preflight Checklist and FRAT will need to be attached to your flight log

Mission Data		Flight Data				* Indicates required field
Pilot Emily Shindle * Select UAS		* Date	Flight Time Flight Hours Flight Hours	Flight Minutes Flight Minutes	*Landings 1	
		*Takeoff Time	* Takeoff Time			
Select	~	Takeoff Time		USE THE REMARKS SECTION TO BRIEFLY EXPLAIN YOUR MISSION		
		* Issues Encountered				
*Select Mission		*Issues Encour	ntered			
*Select Mission Select	~	* Issues Encour Select	ntered	~		
 Select Mission Select This is a Beyond Visua Custom Fields Project 	→ al Line Of Sigh	• Issues Encour Select t (BVLOS) Missio	ntered on COA#	~	Mission Read	445 characters remaining
Select Mission Select This is a Beyond Visua Custom Fields Project None Selected	∽ al Line Of Sigh	Issues Encour Select t (BVLOS) Missie	ntered on COA # NOT A DROP DOWN ME	∼ NU	Mission Read	445 characters remaining ness Reporting
Select Mission Select This is a Beyond Visua Custom Fields Project None Selected Visual Observer	∽ al Line Of Sigh	Issues Encour Select t (BVLOS) Missie	ntered on COA # NOT A DROP DOWN ME Attach a File	NU	Mission Read Select Attach a FRA	445 characters remainin ness Reporting



UAS Maintenance

- Maintenance Profiles
- Vehicle hours flown
 - Sorties/cycles
- Online maintenance logs
- Tracking UAS parts and batteries



UAS Maintenance - Logs

New Maintenance Lo	New Maintenance Log Entry i					
* Maintenance Person Emily Shindle		Select UAS Select	~	• Select Action Select	Indicates required field	
*Date	*Maint. Start Time	*Remarks				
Date	Start Time	Remarks				
*Maintenance Labor Time Labor Hours Hours	Labor Minutes Minutes				4	
Attach a File	Maximum Size: 50 MB					
Choose File						
Attach a Checklist						
Select	~					
Select	~				ancel	

Recent	Recent Maintenance Logs						
Date	Maint. Start Time	Maint. Person	UAS	Time In Service (Hrs)	Action	Component Replaced	Remarks
01/04/2023	13:55	UCBFlightOps#Admin	Mavic Mini (series) - 123	41.5	Delete Discrepancy		No maintenance was completed. Deferred discrepancy deleted Jan 04, 2 • While flying with dronelink, Created Nov 07, 2022 10:18 by I
01/04/2023	11:33	Chase Rupprecht	Mavic Mini (series) - 123	41.5	Inspection - General		Component Time Extension: Propel Rear - Left component extended by 7.43 hours (6.00 hours by User + 1. hours).



Timeline

Today

- Introducing the new system
- Logging in and setting up SSO

March - April

- Soft rollout
- Not required to adopt the system at this time
- Getting UAS materials organized to submit to Flight Ops
- Setting up walk throughs if needed

May - June

- Will be required to be fully implemented by end of June
 - There are only three of us so beat the rush
- Preflight actions will be required
- Will be taught in ground school
- Old records will be offline and no longer available for use

More Resources

- This meeting is being recorded
- Flight logging procedure added to the new FOM and under 'Training Documents' on website
- Preflight logging procedures added to 'Training Documents'
- Email us!





Thanks! Fly Safe!



Dan Hesselius | directorofflightoperations@colorado.edu Chase Rupprecht | chru9677@colorado.edu Emily Shindle | emsh3404@colorado.edu