



CANADIAN LIDAR
MAPPING | MARINE | PRECISION



Drone Regulations and Licensing

Getting Started with UAVs to Improve
Modern Survey Deliverables



Agenda

- Who Is Canadian LiDAR & Dennis Whalley
- UAV Pilot License
- Drone Registration
- Insurance
- Pilot Best Practice (Office/Field)
 - NavDrone App
 - Flight Prep
 - Flight



CANADIAN LIDAR AND MAPPING

CANADIAN LIDAR AND MARINE

MANNED VESSEL SYSTEMS



Checkout multibeam, sonars and side-scan hardware along with GeoAcoustics, Imagenex and R2 Sonic hardware systems

[SHOW ME MORE](#)

UAV BATHY SYSTEMS



Checkout software data collections suites, INS position system along with ASV/USV crafts for unmanned operation/collection

[SHOW ME MORE](#)

ASV BATHY SYSTEMS

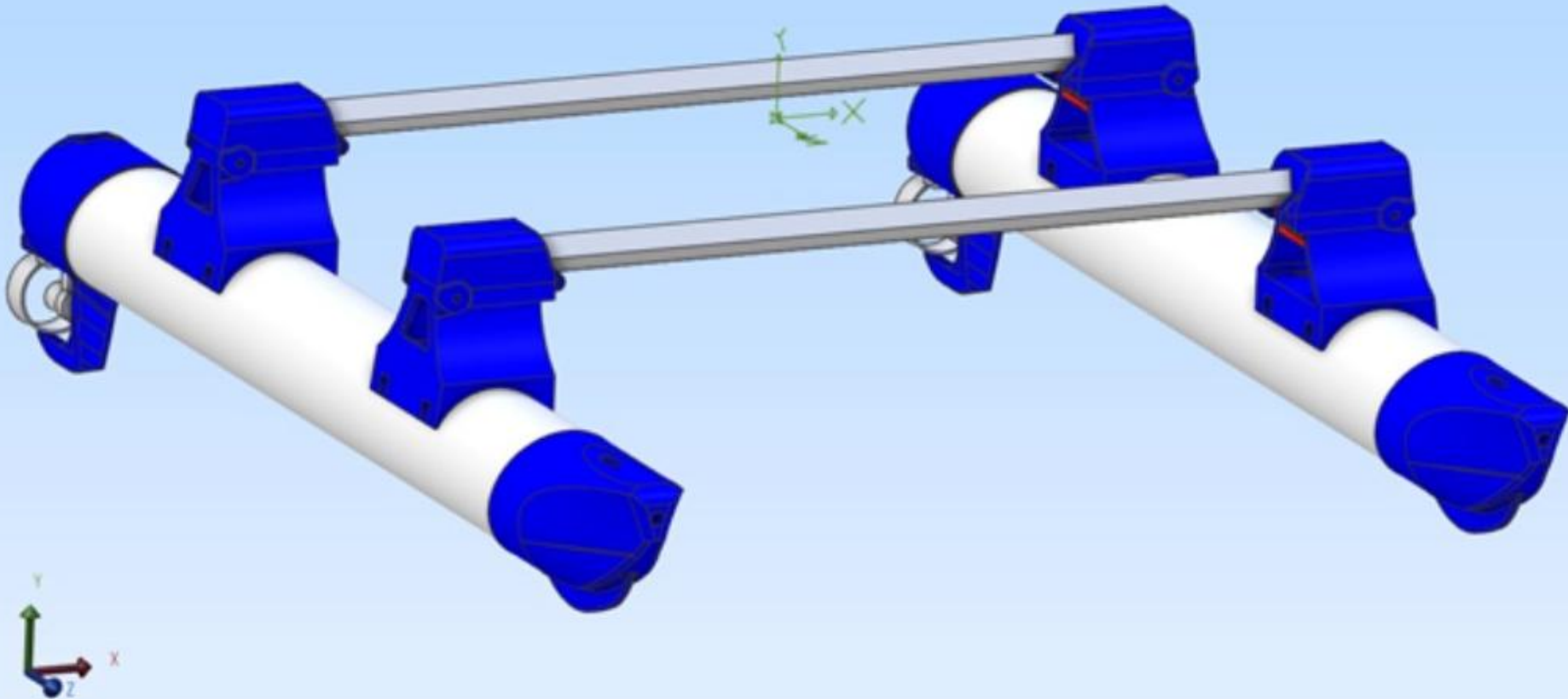


Checkout software data collections suites, INS position system along with ASV/USV crafts for unmanned operation/collection

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What Does CLAM Do





UAV Pilot License

- Transport Canada now runs a **tiered model**:
- **Micro (<250g)** → minimal regulation, still accountable
- **Basic (250g–25kg)** → low risk, uncontrolled airspace
 - **Advanced** → closer to people, controlled airspace
- **Level 1 Complex (NEW 2025)** → BVLOS, higher capability ops



UAV Pilot License – Critical Numbers

- **Altitude (VLOS)**
 - 122m or 400ft AGL
- **Distance from People (VLOS)**
 - Basic 30M
 - Advanced Closer / Over
- **Distance from Airports (VLOS)**
 - Basic 3NM (5.6km) Airport / 1.9km Heliports
 - Advanced with Nav Canada Authorization
- **Level 1 Complex NEW 2025 (BVLOS)**
 - BVLOS, higher capability ops



Transport
Canada



UAV Pilot License – How Do I Get

- **Basic**
 - Exam 35 Question/90mins
 - \$10.00
- **Advanced**
 - Exam 50 Question/90mins
 - \$25.00
- **Ground School**
 - Optional but good idea if you work around airport often
 - \$250-1,000
- **Flight Review**
 - To get Advanced you need a flight review
 - In-person and usually for a fee

[Home](#) > [Take an exam](#)

DENNIS WHALLEY

Take an exam

Before you can obtain certification, you'll need to complete an online exam to ensure you have sufficient knowledge to operate a drone safely. Your choice of exam will depend on where you intend to fly or whether you want to become a Flight Reviewer.

There is a **\$10.17 non-refundable fee** for Basic or Advanced Exams and a **\$50.85 non-refundable fee** for a Level 1 Complex Operations or Flight Reviewer Exam.

Eligibility

You must be:

- 14 years of age or older to take a Basic Exam
- 16 years of age or older to take an Advanced Exam
- 18 years of age or older and have completed an Advanced Exam to take a Level 1 Complex Operations Exam
- 18 years of age or older and have been issued a pilot certificate for Advanced or Level 1 Complex Operations to take a Flight Reviewer exam

What you need before you start

The exam must be completed within **60 or 90 minutes** depending on the exam taken. You must answer every question within the allotted time before you can submit it. Your answers will be saved as you progress through the exam.

You may return and resume the exam within the time remaining if you experience a problem or exit the exam. Should you run out of time, the exam will be automatically submitted and scored based on the answers provided.

To begin, you will need:

- an understanding of drone and aviation safety
- a Visa®, Mastercard®, or American Express® credit card, Apple Pay® or Google Pay®
 - Debit cards may be used if added to your Apple Wallet® app, or Google Pay® app

[Choose your exam](#)

Guides and help

- [Pilot certificates: Overview](#)
- [Drone pilot study resources](#)
- [Find a drone flight school](#)

Contact us

Still have questions? [Contact our regional service centers](#) for more help.

:t



Drone Registration

- All UAV's must be registered with Transport Canada - \$10.00
- You will be given a Registration Number
- Registration number needs to be on the UAV





Transport Canada Drone Management Portal

[Home](#) > [View drones](#)

CANADIAN LIDAR AND MAPPING - CANADIAN LIDAR AND MAPPING (BN760369132)

View drones

1 drone(s) are currently registered. Select a registration number to view the registration information. To deregister a drone, select the aircraft and press the **Deregister** button. If you don't see your drone listed or have obtained a new one, [register it now](#).

<input type="checkbox"/>	Registration # ↕	Make ↕	Model ↕	Serial # / Description ↕	Registration date (YYYY-MM-DD) ▾	Registered by ↕
<input type="checkbox"/>	C-2530879404	RPM M300 Series	LiDAR RPAS	1ZNBL1300C01K7 M3L1	2025-11-04	Dennis Whalley

Display per page

[Return to Home](#)



Insurance – Do I, Don't I

- Even though it is not mandatory for standard operations, liability insurance is considered an industry best practice for any commercial UAV work.
 - Typical coverage protects against:
 - Property damage
 - Bodily injury
 - Privacy claims
 - Damage caused by UAV malfunction





Best Practice – Flight Approval

- Create the mission in Google Earth
- Plan and Operation
 - This is a great idea for all mission
 - Keeps track of flights
 - Verify your airspace pre-flight
 - Informs pilots / aerodrome of intent

New operation



1 Draft > 2 > 3 > 4 > 5 > 6

Cancel Validate Save

< Survey Data Collection

3 Accepted > 4 > 5 > 6

Edit Withdraw 1d:8h:53m:26s left

Operation Details Tasks Flights Documents

Current & future operations

Operation name

[Survey Data Collection](#)

Start

15/05/2026 06:42

Drone

M4E - DJI - Matrice 4E

End

15/05/2026 10:42

Operation status

Accepted

Flight status

Landed

Airspaces >

Disclaimers >

parameters >

Airspaces >

Ended

Landed



Pilot Declaration

I confirm that this operation has been reviewed and submitted through NavDrone where required, and that all applicable operational conditions, authorizations, and airspace restrictions have been reviewed prior to flight.

Operation ID Verified (NavDrone)

Name *

Date *

2026-05-15



Pilot Signature

Clear Signature

Submit / Email

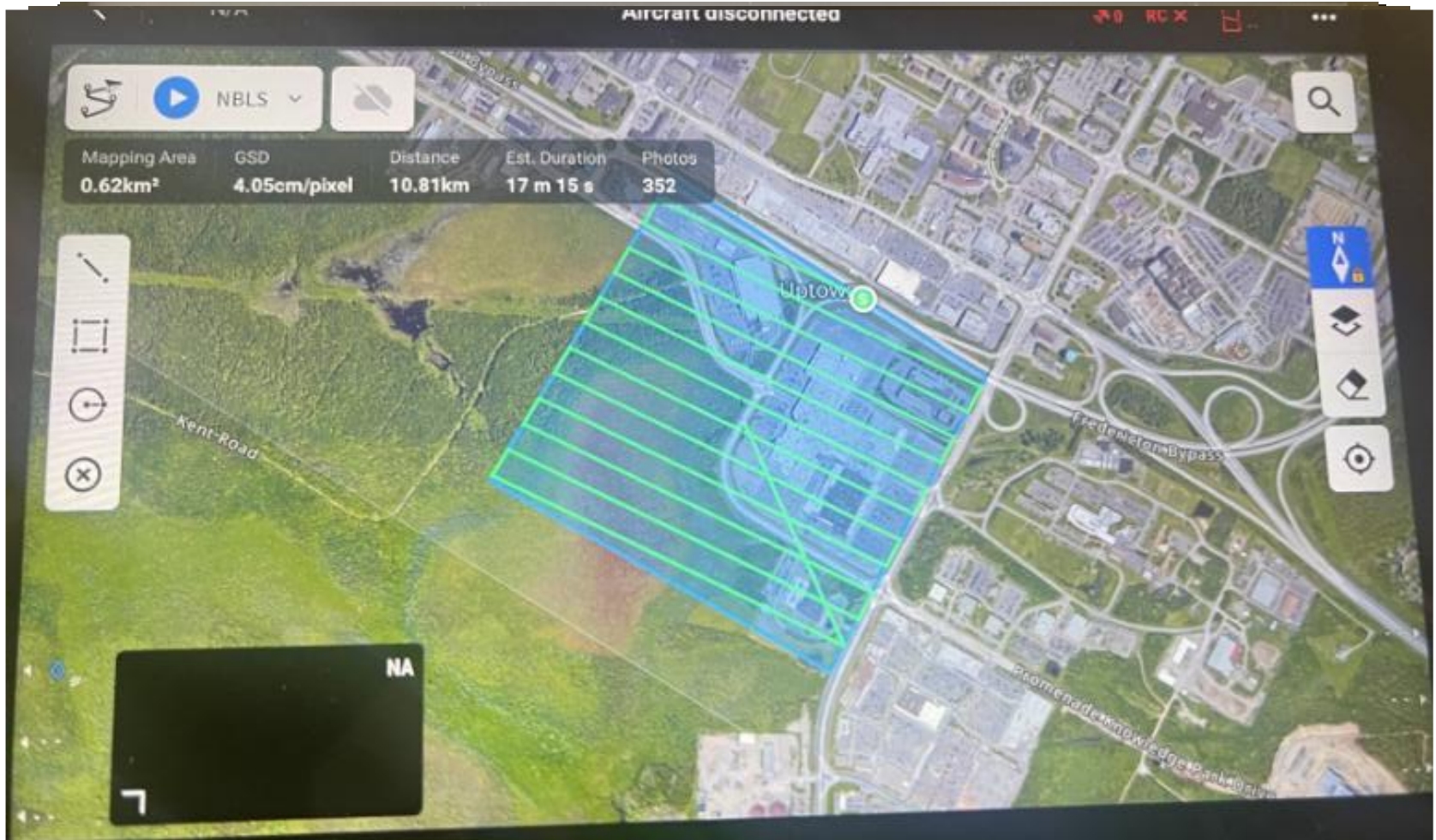
Tap **Prepare Email** first. If your phone blocks the automatic email handoff, use **Copy Email Text** and paste it into your email app.

Email Body Preview

Prepared email text will appear here.



Best Practice – Field Operation





Canadian LiDAR And Mapping

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