

Acquisition record

DEMONSTRATION CAPTURE, NOT CLIENT WORK.

These files are aerial image data captured on the date stated. They record apparent surface temperature and visible light at the time of capture. They contain no inspection, diagnosis, finding, or recommendation. Interpretation is for a qualified professional engaged by the file owner.

Site

Elementary school, Port Moody, BC

Capture date

2026-08-26

Operator: Daniel Sabitoff. Transport Canada Advanced RPAS certificate, ROC-A. Solo pilot in command.

Source column: EXIF = read from frame metadata. computed = derived from EXIF. ECCC = Environment and Climate Change Canada climate archive, station named. operator = pilot statement. "not recorded" means no source exists for this flight.

Site

Site label	Elementary school, Port Moody, BC. Site not named.	operator
Roof type	Low-slope, several sections, single storey	operator, RGB frames
Roof material	not recorded	
Footprint	not recorded. Flight box about 107 m by 78 m (about 90,000 sq ft), the area flown, not the roof area. Estimate.	frame GPS extent
Storeys	1	conditions photo
Obstacles	not recorded	
Privacy	None withheld from the flight set. Sample frames chosen to avoid the parking lot and persons on the yard.	operator

Flight

Date	2026-08-26	EXIF DateTimeOriginal
Camera clock	Local time, PDT (UTC-7). Not checked against an external clock.	operator
Thermal pass	21:00:41 to 21:15:31 PDT, 14 min 50 s, 245 frames, 3 to 4 s interval, about 1.3 m/s. Frames 1 to 193 nadir grid, 194 to 207 at 45 degrees, 208 to 245 nadir repeat of two lines.	EXIF
RGB pass	19:08:17 to 19:15:26 PDT, 7 min 9 s, 204 frames, 2 s interval, about 2.2 m/s. Same footprint and altitude, flown in daylight.	EXIF
Hours since sunset	Thermal pass started 0.9 h after sunset and ended 1.2 h after. RGB pass 1.0 h before sunset.	computed
Sunset	20:06 PDT for 49.274 N 122.888 W	computed, NOAA solar algorithm (astral)
Takeoff and landing	not recorded	
Batteries	Both TB30 pairs used, each to about 20 percent at landing. One pair per mapping pass, plus additional flying not part of the two passes.	operator
AGL	35.0 m both passes (35.02 to 35.09 m)	EXIF RelativeAltitude
Geometry	Automated mapping mission, DJI Pilot 2, parallel north-south lines, about 9 to 11 lines over the footprint. Line count estimated from the coverage map.	operator, EXIF

Overlap	not recorded	
Gimbal	-90 (nadir) for the grid, -45 for frames 194 to 207	EXIF GimbalPitchDegree
Trigger	Mission controlled. Interval type not recorded.	operator
Pauses or aborts	None. Continuous capture cadence in both passes.	EXIF timestamps
Airspace	Uncontrolled. Checked in the NAV CANADA NAV Drone Flightmap for the site address, screenshot on file. No authorization required or requested.	operator, NAV Drone
Positioning	RTK on all RGB frames. Thermal frames report GPS status Normal.	EXIF GpsStatus
Aircraft	DJI Matrice 30T, C-2430059640, body serial 1581F5BKB248100F051, firmware 10.00.89.31	EXIF, registration
Sensors	Thermal 640 x 512 radiometric, delivered as 1280 x 1024 R-JPEG with the 16-bit raw block. Wide RGB 4000 x 3000.	EXIF
Palette	IronRed in the R-JPEG preview as captured. White Hot used for the display exports in the sample PDF.	EXIF, operator
Coverage	Whole footprint at nadir plus a 45 degree set at the west end and a nadir repeat of two east-central lines.	coverage map
Known coverage limits	not recorded	

Conditions

Sky	Clear. Conditions photo at 19:52 PDT shows thin high cloud.	operator, photo
Wind	Calm at the site per operator. 4 km/h from 330 at the nearest hourly station, 21:00.	operator; ECCC Pitt Meadows 110617P
Air temperature	15.6 C at 21:00, 16.1 C at 20:00, 16.6 C at 22:00. Relative humidity 84 percent at 21:00.	ECCC Pitt Meadows 110617P, about 16 km ESE
Daily temperatures	Aug 26 max 23 C, min 15 C. Aug 25 max 32 C.	ECCC station 1106CL2, about 1 km from the site
Hours since rain	Last measurable rain Aug 23 (2.8 mm; Aug 22 10.6 mm). Aug 24, 25 and 26: 0 mm. At least 72 h dry. Exact hour not resolvable from daily totals.	ECCC station 1106CL2
Roof dry at takeoff	Yes, per operator. Not measured.	operator
Conditions photo	19:52:38 PDT, phone camera, 1 h 8 min before the thermal pass. Included in this record.	EXIF

Files

Thermal R-JPEG	245 frames recovered from the flight card by file carving after a card fault. Every file complete: end marker, decodes, DJI ThermalData block 655,360 bytes, calibration block, emissivity and reflected temperature tags. Readout confirmed in DJI Thermal Analysis Tool 3.	verified
Thermal filenames	Carving dropped the filenames. Names rebuilt as DJI_YYYYMMDDHHMMSS_NNNN_T.JPG from EXIF time. Sequence numbers 1 to 207 match the DJI Thermal Analysis Tool 3 export names made before the card fault; 208 to 245 assigned in time order. File contents untouched.	verified by SHA-256
RGB _W.JPG	204 originals, DJI names, EXIF and XMP intact.	verified
Zoom _Z.JPG	None captured on this flight.	
Excluded	Thermal frame 0095: damaged XMP, no position. Part of the 245-frame set, not selected for this sample. 151 near-black RGB frames from the thermal pass not delivered.	verified