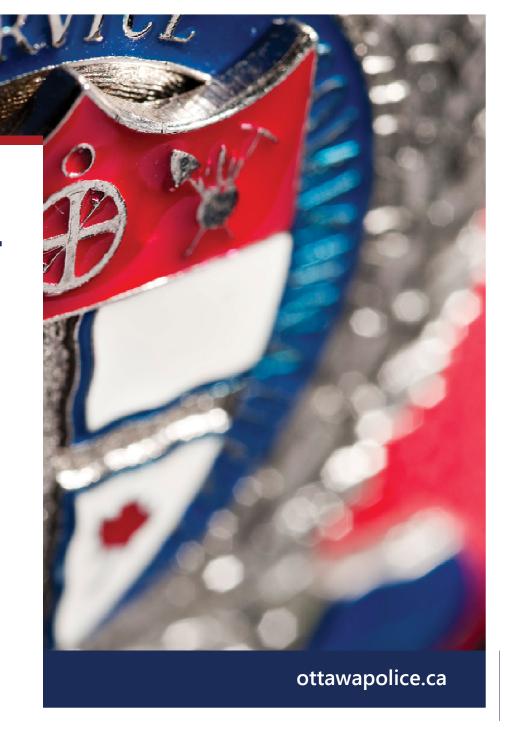
REMOTELY PILOTED AIRCRAFT SYSTEMS (RPAS) ACQUISITION

February 7th 2018





PURPOSE: TO UPDATE THE POLICY &
GOVERNANCE COMMITTEE ON THE
PROPOSED PURCHASE OF TWO RPAS BY
THE OPS, PRIVACY CONSIDERATIONS
AND THE DEVELOPMENT OF SOPS



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OUR APPROACH



- Ongoing, iterative internal consultation process
- Consultation with other police services including the OACP UAV sub-committee
- Researched best practices and technology/platforms
- Considered privacy concerns

BENEFITS



Emergency Services Unit – Missing Persons

Potential to find missing persons faster, search faster, reduced service effort, provide overview of search area, officer safety

Collision Investigation

3D rendering of collision scenes, survey in minutes not hours, improved court disclosure, time savings for reopening roads

Forensic Identification

Detailed aerial view/rendering of crime scenes

Tactical

Aerial perspective of critical incidents, increase officer safety, live video streaming to Command Post

SAFETY & PRIVACY



- All RPAS operations will be conducted with the approval of Platoon Inspectors (Incident Commanders)
- All RPAS operations will be communicated with area air traffic control as required by T.C.
- RPAS flights for collision and crime scenes will be conducted over secured areas
- RPAS flight video recording will be kept as digital evidence as per OPS Photographic policy
- Retention: video to be archived and destroyed in accordance with the <u>AI-007</u> Management of Police Records and OPS Retention and Destruction of Records policy

RPAS PLATFORM



■ DJI Matrice 210 RTK

2 RPAS: \$51,021 Software \$ 23,587 Training \$7,293Total: \$89,901 (one-time cost)

100% covered by SaferRoads Ottawa Funding



CAPABILITIES



- 28 minute max flight time
- Dual heated battery power able to function in -20°C temperature
- Obstacle avoidance sensors
- High quality 4K camera system with thermal imaging capabilities (Flir)
- 'Airsense' provides real-time information about nearby aircrafts

OVERSIGHT



Transport Canada

- Staff Instruction (SI) No. 623-001
- Special Flight Operations Certificate
- Training (Compliant pilots) Ground school training (3 days)
- Pilots require Radio Communication Certificate

Judicial Authorities

 Any operation of RPAS in an area where there is an expectation of privacy must be completed with judicial authorization (warrant)

STANDARD OPERATING PROCEDURES (SOPS)



Development

- Consultation with other police services with RPAS Programs (R.C.M.P., O.P.P., Toronto, Durham, Barrie, Peel, Halton, Niagara, London, Windsor, Chatham-Kent)
- Compliance with Transport Canada regulations
- Internal review and approval by OPS Legal

Highlights:

- All RPAS operations are subject to current legislative and procedural obligations in relation to applicable search and privacy legislation
- All evidence collected is subject to full disclosure and related rules of evidence which shall be recorded, logged and accounted for in accordance with OPS policy – Crime Scene Preservation & Evidence
- RPAS will be used as an investigational aid for collision & crime scene investigation, search for missing persons & public safety investigations when there is no expectation of privacy (or judicial authorization required)

OPERATIONS & TRAINING



- 12 officers trained (ground school)
- Ongoing mandatory monthly training (1 hr/officer) as required by T.C.
- Program manager to oversee operations, training,
 Flight logs, maintenance
- Platoon Inspector will grant approval for use when required

IMPLEMENTATION



- Expected Purchase in March
- Operationalize RPAS by end of Spring
- Public Awareness Plan