Fontana PD
Patrol UAS Initial Training
20 Hours
Course Schedule

Tuesday 0700-1700
- 0700-1000 Classroom
  - FAA Regulations
  - FPD Policy
  - Equipment inspection
  - Written Test

1100-1700 Flight training Cypress south of Santa Ana

Wednesday 1000-2000
- Flight tests
- Scenarios
Patrol UAS

DJI Mavic 2 Enterprise

- Weight: 2 lb.
- Storage: Foldable, portable
- Battery: Heated Intelligent Flight Battery
- Internal Memory: 24GB
- Accessory Port: Speaker, beacon, or spotlight, all included
- Password Protection: Manually set, changeable
- Aircraft Detection: AirSense
- Range: 4.97 miles
- Flight Time: Up to 31 minutes
- Top speed: 47 MPH
- Obstacle Avoidance: Omnidirectional
- Video Transmission: 1080p
- Still Resolution: 12MP
- Video Resolution: 4K ultra-high definition
FAA Regulations

Fontana PD UAS program is regulated under FPD Certificate of Waiver or Authorization (COA) 2019-WSA-4603-COA.

Summarized

- UAS must be in visual line of sight (VLOS)
- First Person Camera does not satisfy see and avoid
- Must fly under 400 ft (120 Meters)
- Must have a Visual Observer unless exigency applies
- Must have anti-collision lights on for night operations
- Must log all flights
- NOTEM's
- Emergency Procedures
FPD Policy

Fontana PD UAS policy 613 complies with COA.

Summarized

- UASU - Unmanned Aerial Support Unit
- Chain of Command: Field Operations Captain
  - UASU Supervisor
    - Responsible for operations and training
    - Logs and FAA reporting
    - Equipment

Many of our policies are currently being changed. Our policy is far more restrictive than the COA because FAA regulations are constantly changing.
Hands on

- Pre Flight procedures, checks, and considerations
  - DJI Standard Pre-flight
  - Attachments
  - Weather
  - Charging considerations
- Camera/video modes and settings
  - Zoom, 4k, 1080p, video, still modes, and 10-21 Real time broadcasting
- Storage and downloading of pictures and video
  - Micro SD, Cable, transmitted copy (Lower quality) vs hard copy (high quality)
- Flight modes
  - P-Positioning, S-Sport, T-Tripod
- Magnetic interference, Compass, and cellular tower issues.
  - Emergency procedures
Hands on cont...

- Patrol Tactics
  - Missing Children/Persons
  - Burglary Rooftop checks
  - Perimeter Suspect Apprehension
  - Search warrant containment
  - Other area checks