



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 exgency 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

