

DRAGANFLYER COMMANDER2



The **Draganflyer Commander2** is a high endurance, dual battery, small Unmanned Aerial System (sUAS). The dual battery system provides extended flight time and increased safety. The Commander2 is ideal for Agriculture, Surveying, Aerial 3D Modeling, Mapping, Search and Rescue, or high endurance Public Safety applications using the 10x optical zoom RGB sensor or FLIR Thermal Imaging camera.

Proudly North American

Exclusively designed, developed, and manufactured in Canada, the Commander2 complies with 'Built-in-North America' requirements. Featuring North American built and sourced flight controllers, sensors, radios, and encrypted communications, you can be confident in the integrity of both your data and your investment.

Flexible Mission Planning

Equipped with a new flight controller, the Commander2 operates with MavLink-based mission planning software to provide powerful and easy to operate flight planning options for fully and semi automated missions as well as manual flight operations.

Custom Integration and Design

The Commander2 is not just a hardware package; this system is available for customization and development to best fit your needs and applications. Backed by over 23 years of UAV development experience, you can be confident in a system that is truly tailored for your mission.

RTK Ready

The Commander2 is available with an optional PPK/RTK enabled GPS system and basestation to provide improved absolute accuracy during data collection.

Interchangeable Payload

Offered with a range of RGB 10x zoom, RGB, Multispectral, Thermal IR, and Hyperspectral sensors, the Commander2 has a wide selection of tightly integrated payloads to meet your data collection needs. All payloads are quickly interchangeable between flights and include sensors from MicaSense, FLIR, Sony, and Corning. As always, Draganfly continues to offer custom payload integration for specialized sensors.

HELICOPTER SPECIFICATIONS

DIMENSIONS

- Width: 87.3cm (34.4in)
- Length: 87.3cm (34.4in)
- Top diameter: 107cm (42in)
- Height: 29.46cm (11.6in)

WEIGHT AND PAYLOAD

- Helicopter w/battery: 2,750g (6lbs)
- Payload capacity: 1,000g (2.2lbs)
- Max take-off weight: 3,750g (8.26lbs)

FLIGHT CHARACTERISTICS

- Max climb rate: 2m/s (393ft/min)
- Max descent rate: 2m/s (393ft/min)
- Max turn rate: 90 degrees/sec
- Max mission speed: 18m/s (64km/hr)
- Minimum air speed: 0m/s (0km/hr)
- Launch type: VTOL
- Typical flight time: 30 min (w/ payload)
- Ceiling ASL: 2,438m (8,000ft density altitude)

AUTOMATED MISSION TYPES

- Grid and 90 degree double grid
- Corridor mapping
- Target stare point
- Waypoint



SONY

FLIR

MicaSense

CORNING

PIX4D



DF-GIM-DUOPROR-1A

Draganflyer Commander2
FLIR DUOPROR CAMERA

- 3 axis stabilized gimbal with remote tilt and pan control
- FLIR DuoPro R 640
 - thermal resolution: 640x512
 - frame rate: 30Hz
 - spectral band: 7.5 - 1.5um
 - thermal sensitivity: <50mK
 - visible resolution: 4000x3000
- remote shutter and video recording
- real time video link



DF-GIM-ADTI-1A

Draganflyer Commander2
24MP RGB PHOTOGRAPHY CAMERA

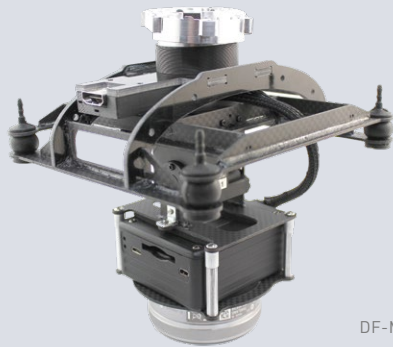
- 3 axis stabilized gimbal with remote tilt and pan control
- 24MP RGB sensor with Sony APC sensor
- interchangeable E-mount lens
- includes Sony 16-55mm lens with electronic zoom
- remote zoom, shutter, and video recording
- real time video link



DF-GIM-10X-1A

Draganflyer Commander2
10X ZOOM RGB CAMERA

- 3 axis stabilized gimbal with remote tilt and pan control
- 2MP RGB
- 10x optical zoom
- remote zoom, shutter, and video recording
- real time video link



DF-MAPGIM-ADTI-1A

Draganflyer Commander2
24MP RGB MAPPING CAMERA

- 2 axis stabilized gimbal with remote tilt control. Gimbal is stabilized on pitch and roll only to maintain NADIR orientation for mapping
- 24MP RGB
- automated data collection through DGroundControl
- remote shutter and video recording
- real time video link
- interchangeable E-Mount lens
- includes Sony 20mm lens



DF-MAPGIM-MX-1A

Draganflyer Commander2
REDEGE MX MAPPING CAMERA

- 2 axis stabilized gimbal with remote tilt control. Gimbal is stabilized on pitch and roll only to maintain NADIR orientation for mapping
- automated data collection through DGroundControl
- remote shutter
- incorporates MicaSense DLS2
- MicaSense RedEdge MX sensor
- GSD: 8cm/pixel at 120m(400ft) AGL

Wavelength

Blue:	475nm center 32nm bandwidth
Green:	560nm center 27n bandwidth
Red:	668nm center 14nm bandwidth
Rededge:	717nm center 12nm bandwidth
NIR:	842nm center 57nm bandwidth

Custom Integration Options For a Wide Range of Sensors including:

- * FLIR VuePro R
- * MicaSense RedEdge MX 10 band
- * MicaSense Altum
- * Corning Micro HSI 410 Shark
- * Sony RGB sensors