

Federally Approved UAS Aircraft and Specifications

July, 2018

Additional Information: [Interagency Fire UAS Subcommittee Website](#)

SOLO

Agency Owned and Operated

3DRobotics



SIZE - WEIGHT – POWER

Height: 10 in

Wingspan: 18 in

Mean Operating Weight: 3.9 lbs

Payload: 420 grams

PERFORMANCE

Endurance: 20 minutes

Max Ceiling: 1,200 ft

Max Speed: 55 mph

Engine: Electric (Li-Po Battery)

Max Range: 0.5 miles

SENSOR OPTIONS

GoPro

Image/IR Camera

GPS Data Logger

RECOMMENDED MISSIONS

Small Fire Mapping

Perimeter Updates

Situational Awareness EO/IR

DATA PRODUCTS

KML, GPX or Shapefiles

Video and/or Still imagery

Small Orthomosaics

Type	Crew Size	Transportation	Flight Ready
4	1-3	Backpack	5 minutes

FIREFLY 6 PRO

Agency Owned and Operated

Birdseye View Aero



SIZE - WEIGHT - POWER

Length: 32.6 ft

Wingspan: 60 in

Mean Operating Weight: 8.4 - 9.9 lbs

Payload: Up to 1.5 lbs

PERFORMANCE

Endurance: 1 hour

Wing-borne Ceiling: 14,000 ft

Cruise Speed: 35 knots

Engine: Electric (Li-Po Battery)

SENSOR OPTIONS

GoPro

Image/IR Camera

Sony RX1R II

MicaSense RedEdge-M

RECOMMENDED MISSIONS

Small/Medium Fire Mapping

Perimeter Updates

Situational Awareness EO/IR

Multispectral Mapping

DATA PRODUCTS

KML, GPX or Shapefiles

Video and/or Still imagery

Small Orthomosaics

Type	Crew Size	Transportation	Flight Ready
3	1-3	Pickup Truck or UTV	25 minutes

BRAMOR C4Eye

Call When Needed (CWN)

C-Astral Aerospace



SIZE - WEIGHT - POWER

Length: 3.1 ft

Wingspan: 7.5 ft

Mean Operating Weight: 9.9 lbs

PERFORMANCE

Endurance: 3 hours

Wing-borne Ceiling: 16,404 ft

Max Horizontal Speed: 30 m/s

Cruise Speed: 16 m/s

Engine: C-Astral Brushless (LiPo)

SENSOR OPTIONS

EO / IR / LI

RECOMMENDED MISSIONS

Large Fire Mapping

Perimeter Updates

Heat Perimeters (Polygon)

Isolated Heat Sources (Point)

DATA PRODUCTS

KML, GPX or Shapefiles

Video and/or Still imagery

Large Orthomosaics

Type	Crew Size	Transportation	Flight Ready
2	1-3	Pickup Truck	30 minutes

STALKER XE

Call When Needed (CWN)

Lockheed Martin



SIZE - WEIGHT - POWER

Length: 10 ft

Span: 12 ft

Operating Empty Weight: 22.5 lbs

Payload: Up to 5.5 lbs

PERFORMANCE

Endurance: 4-8 hours

Ceiling: 12,000 ft

Max Horizontal Speed: 45 knots

Cruise Speed: 31 knots

Engine: Hybrid power system (propane/battery)

SENSOR & DATA OPTIONS

EO Camera Pod - Color 26x Optical Zoom

IR Camera Pod - 50mm lens 2x Digital Zoom

Dual Imager Pod - Color 10x Optical Zoom

RECOMMENDED MISSIONS

Large Fire Mapping

Perimeter Updates

Heat Perimeters (Polygon)

Isolated Heat Sources (Point)

DATA PRODUCTS

KML, GPX or Shapefiles

Video and/or Still imagery

Large Orthomosaics

Type	Crew Size	Transportation	Flight Ready
2	2-4	Pickup Truck	30 minutes

SILENT FALCON

Call When Needed (CWN)

Bridger Aerospace



SIZE - WEIGHT - POWER

Length: 6.2 ft

Wingspan: 14.4 ft

Mean Operating Weight: 32 lbs

Payload: Up to 5.5 lbs

PERFORMANCE

Endurance: 5 hours

Wing-borne Ceiling: 20,000 ft

Max Horizontal Speed: 48 knots

Cruise Speed: 25 knots

Engine: Electric (Li-Po Battery) / Solar (Integrated Thin Film Photovoltaic)

SENSOR OPTIONS

Four (4) different ISR EO/IR sensors

Midwave Infrared (MWIR) camera

VNIR Hyperspectral Imager

SWIR Hyperspectral Imager

FireWatch and CropWatch Payload

Spectrometer

Multispectral Imager

Three (3) different mapping payloads...

RECOMMENDED MISSIONS

Large Fire Mapping and Multispectral Data Collection

Perimeter Updates

Heat Perimeters (Polygon)

Isolated Heat Sources (Point)

DATA PRODUCTS

KML, GPX or Shapefiles

Video and/or Still imagery

Large Orthomosaics

ArcFMV

Type	Crew Size	Transportation	Flight Ready
2	2-4	Pickup Truck	45 minutes

SCANEAGLE

Call When Needed (CWN)

Boeing Insitu



SIZE - WEIGHT - POWER

Length: 5.3 ft / 1.6 m

Wingspan: 10.2 ft / 3.1 m

Operating Empty Weight: 35.3 lb / 16 kg

Payload Power: Up to 150 W

PERFORMANCE

Endurance: 24+ hours

Ceiling: 19,500 ft / 5,944 m

Max Horizontal Speed: 80 knots / 41.2 m/s

Cruise Speed: 50-60 knots / 25-30 m/s

Engine: Heavy fuel (JP-5 or JP 8)
or C-10 gasoline engine

SENSOR OPTIONS

Turret: EO, EO900 (EO camera
and EO telescope), MWIR,

Dual Imager (EO and MWIR)

Video Datalink: Analog, digital encrypted

C2 Datalink: Encrypted, unencrypted

RECOMMENDED MISSIONS

Large Fire Mapping

Perimeter Updates

Heat Perimeters (Polygon)

Isolated Heat Sources (Point)

DATA PRODUCTS

KML, GPX or Shapefiles

Video and/or Still imagery

Large Orthomosaics

ArcFMV

Type	Crew Size	Transportation	Flight Ready
1	2-4	Mult. Pickup Trucks	4 hours