

UNMANNED ARIEL VEHICLE (UAV) - DRONE **AGRICULTURE UAV with MULTISPECTRAL SENSOR**

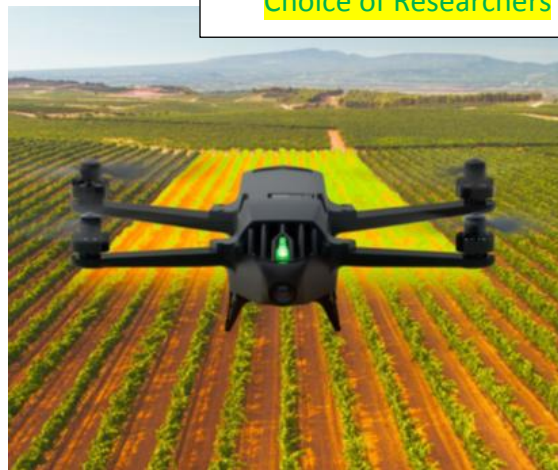
It is a Advance multipurpose UAV designed for agriculture that helps farmers improve their ROI, using its 2 embedded cameras; video camera and multispectral / IR sensor. Using UAV, Capture Data within a Minutes.

With its front Full HD video camera, this solution helps farmers visually monitor the farm's infrastructure, the land and herds. It also enables farmers to quickly get an overview and detect problem areas in all types of crop fields, thanks to its multispectral sensor designed for precision agriculture. It can automatically cover up to 30 hectares at 70 m / 230 ft. flight altitude per battery. It is a user friendly integrated solution for farmers: it is easy to set up, easy to fly with its autonomous flight capability, easy to process.

**For Precision Agriculture,
Choice of Researchers**



Multi Spectral / IR Camera Sensor

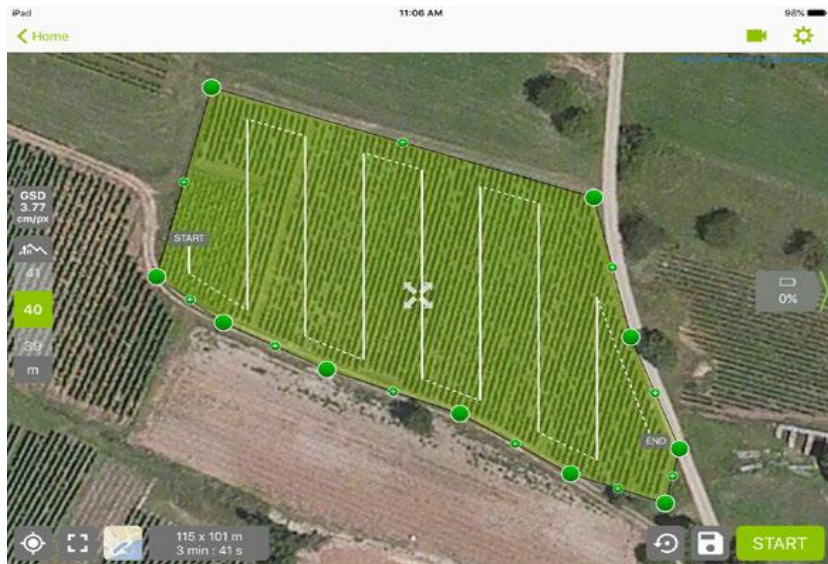


UAV with Integrated Sensor and RGB Camera

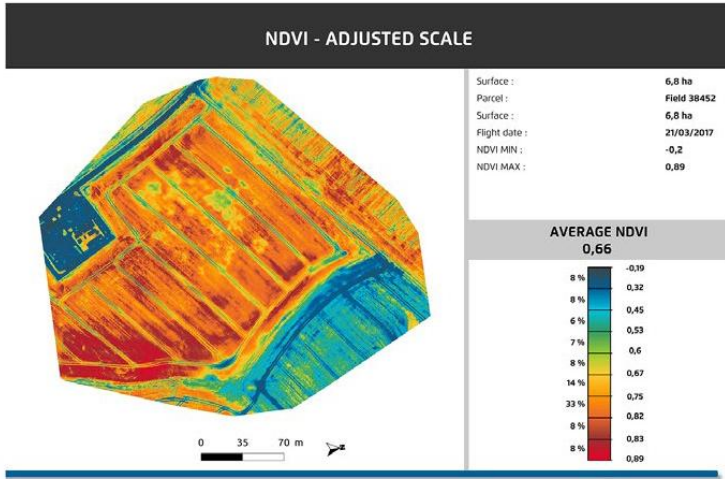




Capture



Fly Automatically



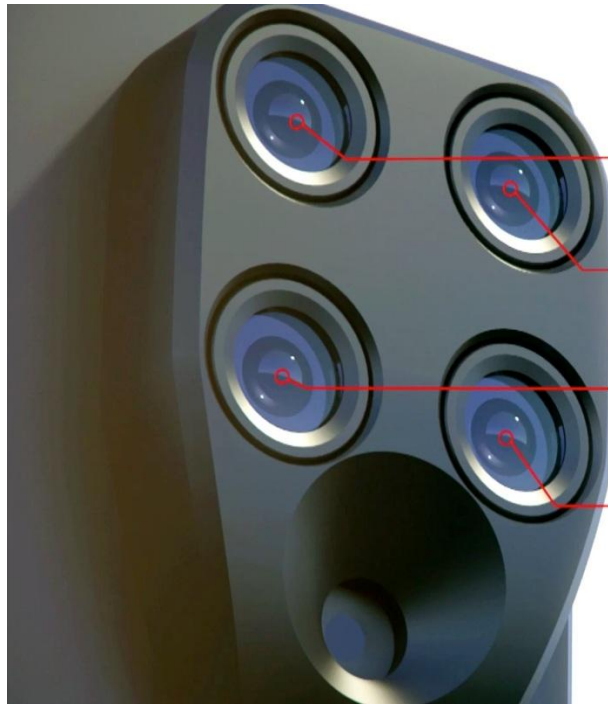
Analyze

Capture Crop Data With Multispectral Sensor

This is the cutting-edge multi-spectral sensor for Precision Agriculture. With its two sensors, multi-spectral and sunshine, It analyses plants' vitality by capturing the amount of light they absorb and reflect. The high precision multispectral sensor facing down to the plants captures RGB photos and the light that they reflect in four separate bands: green and red lights and two infrared bands invisible to the human eye. Placed on the drone facing up, the sunshine sensor records the intensity of light emanating from the sun allowing to perform radiometric calibration to ensure consistent data measurement.



Multispectral Camera Specifications



Red

Wavelength 660 nm
Bandwidth 40 nm
Definition 1.2 Mpx

Green

Wavelength 550 nm
Bandwidth 40 nm
Definition 1.2 Mpx

Red Edge

Wavelength 735 nm
Bandwidth 10 nm
Definition 1.2 Mpx

Near Infrared

Wavelength 790 nm
Bandwidth 40 nm
Definition 1.2 Mpx

Weight:	135 grams (4.8 oz.) (including Sunshine Sensor and cable)
Dimensions:	5.9 cm x 4.1 cm x 3.0 cm (2.3 in x 1.6 in x 1.2 in)
External Power:	5.0 V DC, 8 W nominal (12 W peak)
Spectral Bands:	Green, red, red edge, near IR (global shutter, narrowband)
RGB Color Output:	16 MP (rolling shutter)
Ground Sample Distance (GSD):	13 cm per pixel (per band) at 120 m (~400 ft) AGL
Capture Rate:	1 capture per second (all bands), 10-bit RAW
Interfaces:	USB (PTP)
Field of View:	70.6° HFOV

Fixed Wing - For Precision Agriculture



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Parrot Disco Fixed Wing UAV Drone

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