ADVANCED PRECISION FARMING SOLUTION

AGROPRO 100

Precision Agriculture is a rapidly growing sector. Being able to offer new services in this area can be a great opportunity for modern and innovative Business Professionals. The AGROPRO 100 Solution allows you to enter the world of Precision Farming thanks to accessible technology, both in terms of costs and use.

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WHAT IS INCLUDED IN THE SOLUTION
AGROPRO 100

DJI Matrice 100 Drone
Ready to fly DJI Matrice 100 Drone.

Agrowing Multi-spectral Camera
Multi-spectral Camera with dedicated Gimbal.
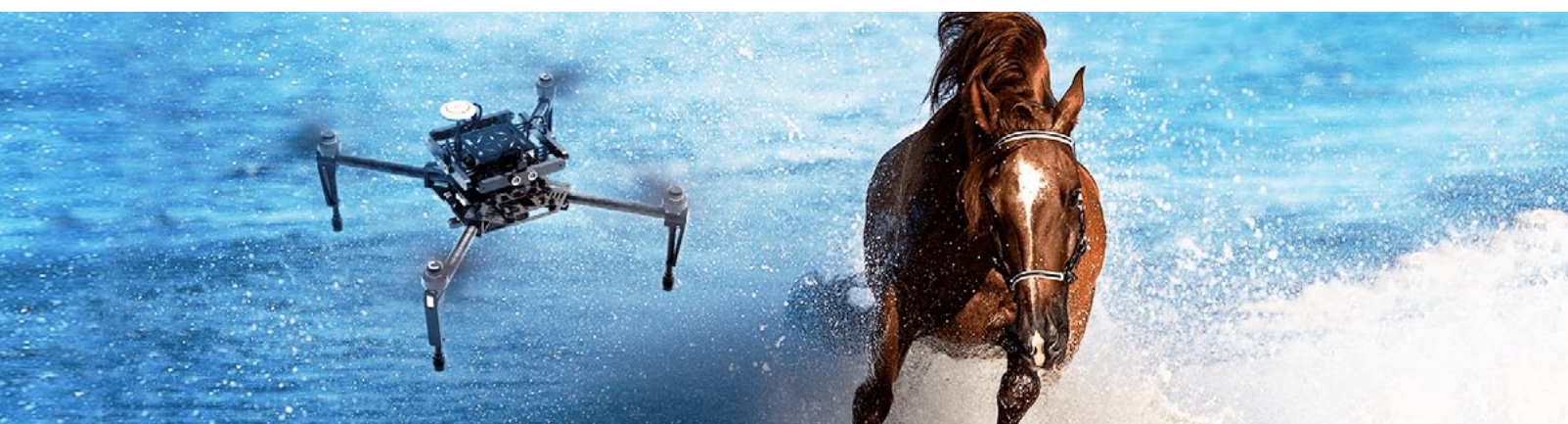
DJI Zenmuse X3 Camera
4k Camera with dedicated Gimbal.

THE NEW HIGHLY CUSTOMIZABLE DRONE
MATRICE 100

The new **DJI Matrice 100** quadricopter has been designed to be fully customizable to the specific needs of each Professional. Customize your Matrice 100 and become successful in the Photogrammetry, Archaeology, Thermography, Precision Farming, Advertising and Entertainment sectors.

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MATRICE 100

Thermal Imaging Cameras

RGB Visible Light Camera

Multi-spectral Cameras

- Matrice 100 ready to fly Drone, tested and calibrated, ready for use;
- Up to 40 minutes flight range;
- Guide assisted GPS + GLONASS for maximum security and flight stability;
- Automatic flight: when leaving controls the drone maintains its position;
- Keeps set altitude thanks to GPS/GLONASS technologies;
- Return home and safe landing in the case of emergency;
- Intelligent Orientation Control (IOC);
- Real time Video transmission;
- Remote controller frame control;
- Smart battery;
- Software and user manuals included.

MATRICE 100 AGROWING

Complete ready-to-fly 4 engine Drone with propellers

GPS and GLONASS assistance

Automatic return to take off position function

Micro SD Multi-Spectral video and image recording

Up to 40 minutes battery life

Camera Specifications

Mount: Sony E-Mount
Sensor: APS-C
Type: Dual Lens single mount
Resolution: 8,5 MP (3550x2400 pixels) per color channel
Effective Focal Length: 25 mm
Weight: 350 gr.
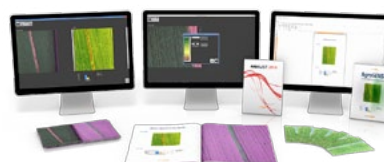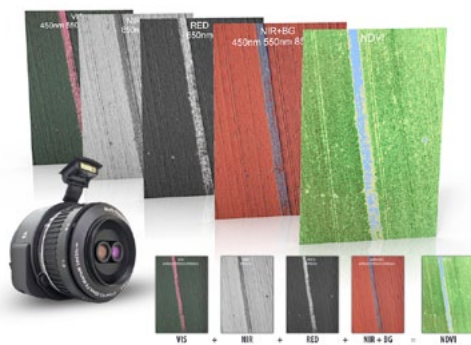Field of View: Diagonal 45,9° - Horizontal 35° - Vertical 26,6°.

Use your device
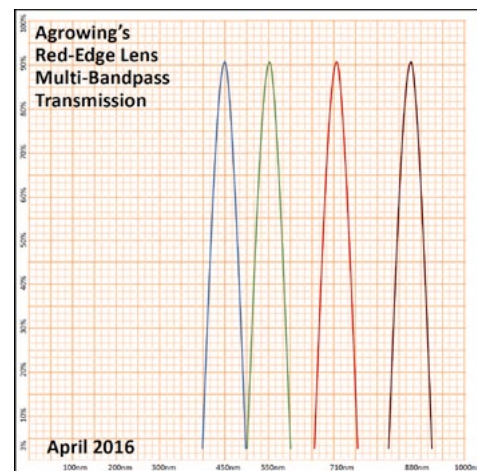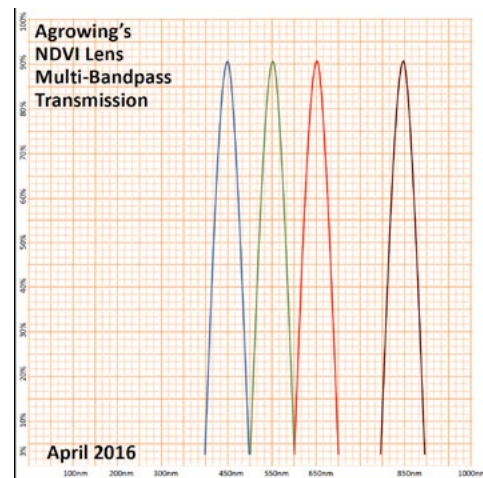
Gimbal Control

Battery Level

Our Solution includes Analist 2016 CLOUD software with the AgroSENSE module. AgroSENSE responds to the need for immediate feedback from the field. The response is immediate for the farmer to take action. AgroSENSE provides the NDVI index and automatically generates the Professional Report with a grid with the information on: the analyzed zones, suspicious situations together with the identification of the problematic areas. It is colour coded, clear, simple and immediate.

http://www.analistgroup.com/en/drone-applications/agrosense-precision-farming

www.analistgroup.com

DJI M▲PIR

Analist Group

AGROWING

Agrowing Multi-Spectral
E Dual 4/3 25mm F6 Manual 1m/3ft-∞
Patent Pending
Ø40.5

Agrowing's
NDVI Lens
Multi-Bandpass
Transmission

April 2016

Agrowing's
Red-Edge Lens
Multi-Bandpass
Transmission

April 2016

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Agrowing's EML25 Lens Specifications

Mount		Sony E-Mount
Sensor		APS-C
Type		Dual lens single mount
Resolution		8.5MP (3550x2400 pixels) per color channel for 20.1MP cameras (Qx1; Alpha 5000)
		10.2MP (3850x2650) per color channel for 24.3MP cameras (Alpha 5100; Alpha 6000 etc.)
Effective focal length		25mm
Focus type and range		Manual 0.5m - infinity
F number		6.0
Field of view	Diagonal	45.9^0
	Horizontal	35^0
	Vertical	26.6^0
Back focal length		28.03mm
Lens effective diameter		Ø 9.68mm
Lens construction		7-5
TV distortion		-1%
Relative illumination		68%
Iris		fixed
TTL		44mm
Dimension (ØxLxW)		60x35.2mm
Weight		135gr

© Agrowing February 2016 patent pending technology; specification may be changed without notice

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3-Axles Brushless Gimbal for Agrowing Camera

Gimbal Features:

- **Special designed for Sony NEX5/6/7**
- **Aluminum alloy CNC processing, carbon fiber plate**
- **Balance adjustable structure**
- **BaseCame Simple BGC (AlexMos 32bit) controller**
- **Ipower 4108 special Brushless gimbal motor**

Specification:

- Support sensitivity parameter adjust and software three dimension altitude display
- Support rock speed ratio mode and position mode
- Receiver support: Normal receiver, PPM receiver, DSM2/ DSMJ/DS-MX receiver
- Remote controller support: PPM/PCM/2.3G
- Work voltage: DC7.4-14.8V(11.1V 3S)
- Work current: 200mA~2A

- Work temperature: -15C~65C
- Processor: MEGA328P
- Sensor: MPU6050
- Max.angle speed: 2000/SEC
- Max. accelerator: 16g
- Motor drive frequency: 8/32KHz
- Control precision: 0.1
- Control angle range: -45~45(roll), -90~90(pitch)

Zenmuse X3

Camera Specifications

Video: 4K 30fps - 1080P 60 fps
Photo resolution: 12 Megapixel
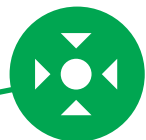**Video Format:** .mp4
FOV: 94°
Full 360° camera Rotation for 360° shooting
Focal Length: 20mm without distortion or fish-eye effect.

GIMBAL 3 ASSI

12.0 MEGA PIXELS

4K

Gimbal Image Stabilizer for high quality shooting

Camera inclination controlled by remote controller and SmartPhone

Use your device

Real time Video transmission

Gimbal Control

Battery level

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AGROPRO 100

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