



**MORE THAN MEETS THE EYE**

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## Introducing **LaQuinta**

**LaQuinta** is the first of its kind: a single sensor, single optical path, high resolution 4 narrow-band multispectral UAV and ground vehicle camera for Precision Agriculture, packed with functionality like no other device in the global market; all without the multiple-camera-in-a-box misalignment issues or timeshift sensitive filter-wheel drawbacks.

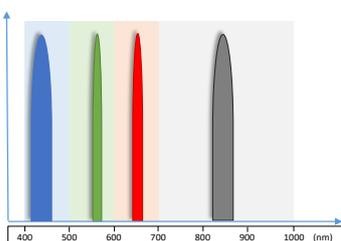
**LaQuinta** is designed to feature all popular requirements, nice-to-haves and more into one user-friendly device at an unprecedented price tag.

Supported through valuable partnerships DB2 Vision aims to deliver the full value chain by offering a complete solution to the end-user.

**LaQuinta** aids in solving a worldwide growing problem:

- By monitoring plant health
- Determining exactly where fertilizer is needed (and where not)
- Determining if and where pesticides are needed and..
- Control water usage by pinpointing areas of interest

**Less use = Less cost + Less waste + Less pollution**



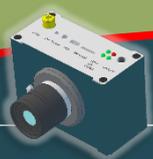
Reflectance	CWL	FWHM	RANGE
BLUE	430nm	40	410-450nm
GREEN	570nm	20	560-580nm
RED	660nm	20	650-670nm
NIR	840nm	40	820-860nm

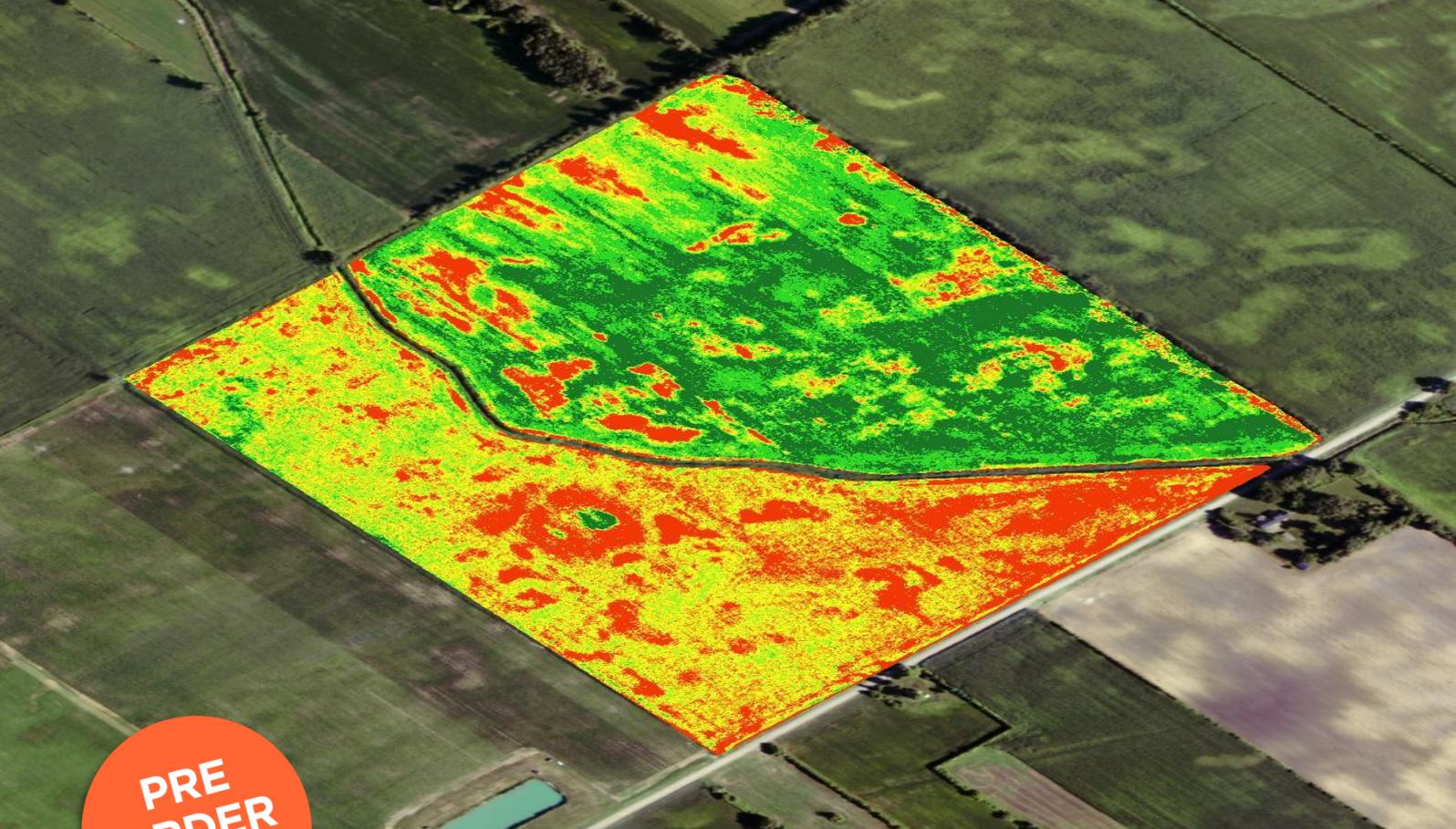
1 Optical Path / 4 Narrow Bands in RGB-NIR / 4.1 Megapixel

RAW multispectral image acquisition @ 3FPS while simultaneously recording HD video

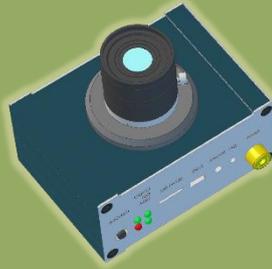
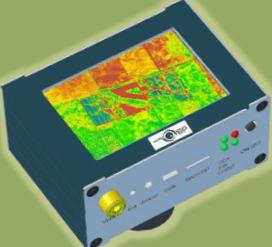
IMU, GPS + Geotagging + Compass + Altimeter for exact GPS location of the target, rather than the UAV

Full image calibration through the DB2 **Adapt-2-Light**® / pixel-level and RGB + NIR irradiance sensor





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**IMAGE SENSOR AND OPTICS**

- 1 single revolutionary 4.1 Megapixel combined RGB + NEAR-INFRARED sensor
- 1 OPTICAL PATH WITH 4 NARROW BANDS! (competition works with “multiple cameras in a box” causing mechanical misalignment issues due to different FOVs)
- Bands CWL/FWHM: Blue 430/40 - Green 570/20 - Red 660/20 - NIR 840/40
- No damaging rolling shutter effects
- Up to 3 FPS - User Selectable (frequency or at x% of image overlap), Max or Auto
- Exchangeable C/CS mount lenses
- Customizable narrow band filter options

**IMAGE CAPTURE AND POST-PROCESSING**

- Image post processing in Multilayer/ GEO- TIFF
- Fully Compatible with 3<sup>rd</sup> party Image Stitching Software (AgiSoft/ Pix4D AG)
- RAW multispectral image acquisition AND simultaneous video recording!

**HYBRID SENSOR FEATURES AND FUNCTIONALITY**

- Setup & Configuration over Android & iOS (Bluetooth) and/or Full Color Touchscreen
- IMU, GPS + Geotagging + Compass + Altimeter for exact GPS location of the target, rather than the UAV
- 64GB SD card
- Internal Rechargeable Battery for 2-4 hours + USB connection to charger/ external battery
- PAL/NTSC video-out for direct show downlink
- Trigger in- and output
- Multiple unit connectivity for simultaneous capture (f.i. Tractor boom usage)
- Full image calibration through the DB2 **Adapt-2-Light**<sup>®</sup> / pixel-level and RGB + NIR irradiance sensor
- Size & Weight: 72 x 56 x 70mm / 240g • 2.83 x 2.20 x 2.76” / 8.47oz (incl. CS-mount lens)

***Revolutionizing Remote Sensing in Precision Agriculture***