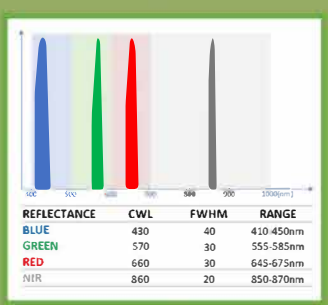
ORDER NOW!

LaQuinta

Professional Crop Sensor for Everyone



REFLECTANCE	CWL	FWHM	RANGE
BLUE	430	40	410-450nm
GREEN	570	30	555-585nm
RED	660	30	645-675nm
NIR	860	20	850-870nm

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

RAW multispectral image acquisition @5FPS (max.) 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

Android/ iOS and Windows app and / or touchscreen controlled

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 value-added partnerships, DB2 Vision is able to deliver the full value chain by offering a complete solution to the end-user.

LaQuinta aids in solving a worldwide growing problem:

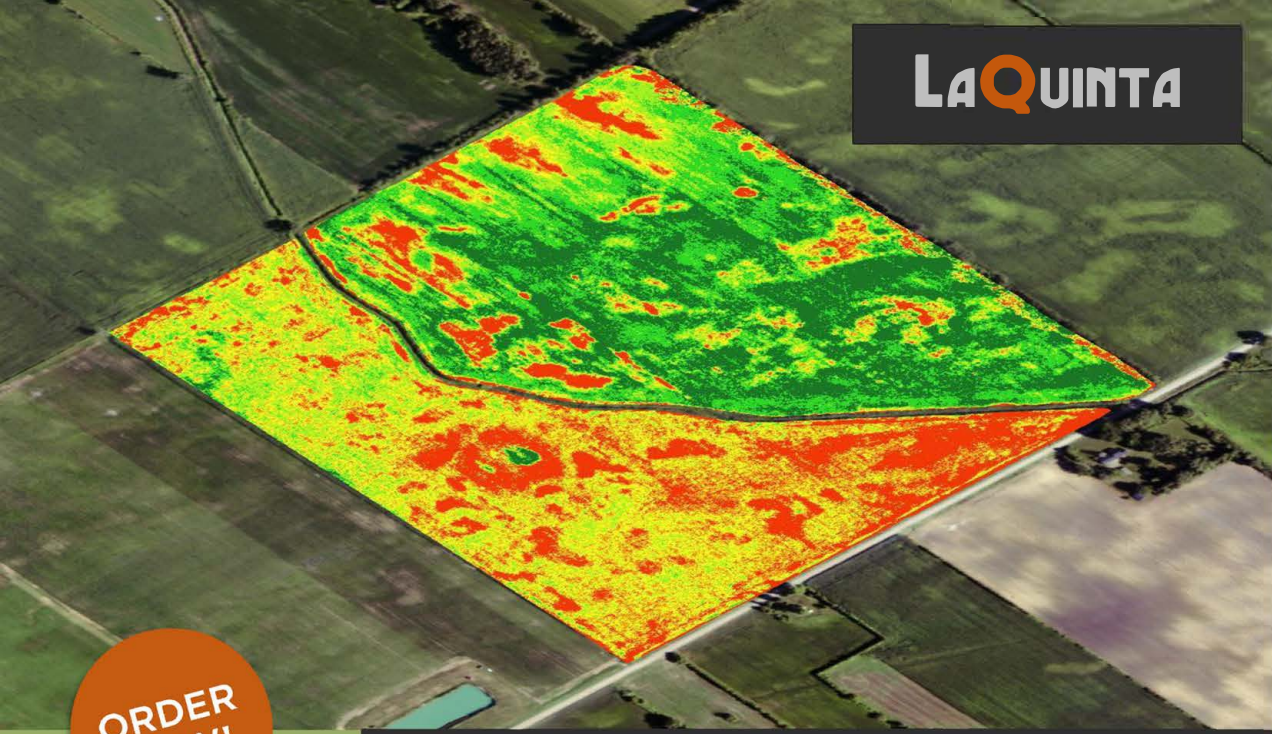
- By monitoring plant health
- Determining exactly where fertilizer is needed (and where not)
- Determining if and where pesticides are needed

and..

- Control water usage by pinpointing exact areas of interest

Less use = Less cost + Less waste + Less pollution

www.arborcarbon.com.au | enquiries@arborcarbon.com.au



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M12 Version
(with UAV mount)

CS Version
(depicted without UAV mount)

dB2 vision

IMAGE SENSOR AND OPTICS

- 1 single revolutionary 4.1 Megapixel combined RGB + NEAR-INFRARED sensor
- 1 OPTICAL PATH WITH 4 NARROW BANDS! (as opposed to the "multiple cameras in a box" method causing mechanical misalignent issues due to different FOVs)
- Multispectral AG Bands CWL/FWHM: Blue 430/40 - Green 570/30 - Red 660/30 - NIR 860/20 for crop-health analysis through multiple indices such as NDVI
- No damaging rolling shutter effects
- Up to 5 FPS in Full Resolution RAW - Auto or User selectable (frequency or x% of image overlap)
- Exchangeable lenses (M12 mount or C/CS mount)

IMAGE CAPTURE AND POST-PROCESSING

- Image post-processing in Multilayer/ GEO- Tiff
- Fully Compatible with 3rd party Image Stitching and AG Analysis Software (AgiSoft/ Pix4D AG)
- RAW Multispectral image acquisition AND simultaneous video recording!

HYBRID SENSOR FEATURES AND FUNCTIONALITY

- Setup and Configuration over Android, iOS & Windows (Bluetooth) and/or camera touchscreen
- IMU/ GPS/ Geo-tagging/ Compass/ Altimeter for exact GPS location of the target, rather than UAV
- 64GB µSD card
- Internal Rechargeable Battery for 1hr + µUSB connector to charger/ external battery
- PAL/NTSC video-out for realtime downlink
- Trigger in- and output
- Multiple unit connectivity for simultaneous capture (f.i. tractor boom usage)

- Dual Full Image Calibration through the DB2 Adapt-2-Light® / RGB + NIR and Pixel-level irradiance sensor

- Custom UAV mount for easy attachment to your specific aircraft!

- Size & Weight: 78 x 58 x 56mm/ 159g - 3.07 x 2.28 x 2.20" / 5.61oz (incl 8mm M12 lens)
  78 x 58 x 72mm/ 199g - 3.07 x 2.28 x 2.83" / 7.01oz (incl 8mm CS lens)