

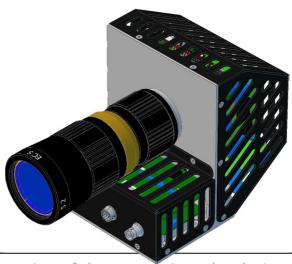
The Condor⁵



- Precision agriculture
- Fire location
- Foliage evaluation
- · Oil spill detection
- Terrain mapping

Benefits

- With build in apochromatically corrected lenses saving space
- Light weight solution
- In house data storage and PAL output
- High resolution (2,1MB)
- Very sensitive (big pixel 5.5μm)
- Pixel to Pixel co registration of five images
- Easy stitching & fast processing of images



The UAV version of the camera is under design. Specs can change in the process.

World's first 5 Channel Multispectral Imager solving all the needs for UAV data gathering

Unmanned Aircraft Systems (UAS) or Unmanned Aerial Vehicles (UAV) are as effective as the information they can collect. The Quest Innovations multispectral cameras are perfectly equipped to do just that; collect highly qualified information in a high resolution which is fast and easy to process.

Single lens optics result in perfect co-registration of the images. These are easy to stitch to a large mosaic and keeps the precise image size of the images that are taken simultaneously. There is no need to process these simultaneously taken images for shift and deformation artefacts. This increases the post processing speed tremendously as well as improving the scientific data quality. The cameras are equipped with the right narrow band filters, providing unique information from the selected spectral regions. Important success factors of the Quest Innovations cameras are the large pixels and high resolution capabilities.

The Netherlands

sales@quest-innovations.com





Features

- Individual sensor settings or combined
- •Smart Multi sensor trigger capabilities
- •Wavelengths: 400 1000 nm

Specifications

Connector

DC-In / Trigger

Dimensions

Active area 2/3" sensor	Sensor	CMV2000	
Pixel clock Active pixels Active pixels 2048 x 1088 (2.1MB) Frame rate 30 Fps full resolution / 5Fps over GigE Channels Channel 1: 400 − 500 nm or Custom RGBNirNir Prism or 20/20/20/20/20 Beam Split prism Channel 3: 590 − 670 nm or Custom Channel 3: 590 − 670 nm or Custom Channel 5: 830 −1000 nm or Custom Alignment accuracy Better than 1/4th of a pixel Dynamic range > 56 dB Bit depths 8 bit 5 channel, 12 bit 5 channel Gain X3.2 analog gain + digital gain. Video output GigE/ PAL/ SD card Internal data storage Flash 64-128 GB Trigger modes Internal and external source (on Camera Link and Hirose connectors) Synchronization All Sensors clock synchronized. Smart trigger unit for advanced trigger schemes Electronic shutter Synchronized exposure with channel independent duration. (1 µs to 1s) Lookup tables Lookup tables available in 8bit mode, full access to table entries. Table data can be programmed in flash memory External control Capability *)Selectable per channel Weight "1450 grams including 50 mm lens "1950 grams including 15 mm lens 150 x 130 x 177 mm incl 50 mm lens 150 x 130 x 247 mm incl 15 mm lens Dimensions M42 custom lens Operating temperature -20 - +50 °C Regulations CE (EN 61000-6-2 EN 61000-6-3), FCC Part 15 class B, RoHS/WEE Back focal length ≥ 59 mm in air Power 18-24V DC +/-10%, 12W	Active area	2/3" sensor	
Active pixels 2048 x 1088 (2.1MB) Frame rate 30 Fps full resolution / 5Fps over GigE Channels Channel 1: 400 − 500 nm or Custom RGBNirNir Prism or Channel 3: 590 − 670 nm or Custom 20/20/20/20/20 Beam Split Channel 3: 590 − 670 nm or Custom prism Channel 4: 670 − 830 nm or Custom Alignment accuracy Better than 1/4th of a pixel Dynamic range >56 dB Bit depths 8 bit 5 channel, 12 bit 5 channel Gain X3.2 analog gain + digital gain. Video output GigE/ PAL/ SD card Internal data storage Flash 64-128 GB Trigger modes Internal and external source (on Camera Link and Hirose connectors) Synchronization All Sensors clock synchronized. Smart trigger unit for advanced trigger schemes Electronic shutter Synchronized exposure with channel independent duration. (1 μs to 1s) Lookup tables Lookup tables available in 8bit mode, full access to table entries. Table data can be programmed in flash memory External control Capability Gain*, exposure*, lookup tables*, region of interest, image bit depth, trigger source Weight ~1450 grams including 50 mm lens ~150 x130 x 247 mm incl 50 mm lens 150 x130 x	Pixel size	5.5μm x 5.5μm	
Frame rate 30 Fps full resolution / 5Fps over GigE	Pixel clock	48 MHz	
Channels Channel 1: 400 – 500 nm or Custom RGBNirNir Prism or Channel 2: 500 – 590 nm or Custom 20/20/20/20/20 Beam Split prism Channel 3: 590 – 670 nm or Custom Channel 4: 670 – 830 nm or Custom Channel 5: 830 – 1000 nm or Custom Alignment accuracy Better than 1/4th of a pixel Dynamic range >56 dB Bit depths 8 bit 5 channel, 12 bit 5 channel Gain X3.2 analog gain + digital gain. Video output GigE/ PAL/ SD card Internal data storage Flash 64-128 GB Trigger modes Internal and external source (on Camera Link and Hirose connectors) Synchronization All Sensors clock synchronized. Smart trigger unit for advanced trigger schemes Electronic shutter Synchronized exposure with channel independent duration. (1 μs to 1s) Lookup tables Lookup tables available in 8bit mode, full access to table entries. Table data can be programmed in flash memory External control Capability Gain*, exposure*, lookup tables*, region of interest, image bit depth, trigger source Weight ~150 grams including 50 mm lens ~150 y 130 x 177 mm incl 50 mm lens 150 x 130 x 247 mm incl 15 mm lens Lens mount options M42 custom lens Operat	Active pixels	2048 x 1088 (2.1MB)	
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Channel 5: 830 –1000 nm or Custom Alignment accuracy Better than 1/4th of a pixel Dynamic range >56 dB Bit depths 8 bit 5 channel, 12 bit 5 channel Gain X3.2 analog gain + digital gain. Video output Internal data storage Flash 64-128 GB Trigger modes Internal and external source (on Camera Link and Hirose connectors) Synchronization All Sensors clock synchronized. Smart trigger unit for advanced trigger schemes Electronic shutter Synchronized exposure with channel independent duration. (1 µs to 1s) Lookup tables Lookup tables available in 8bit mode, full access to table entries. Table data can be programmed in flash memory External control Capability *)Selectable per channel Weight "1450 grams including 50 mm lens "1950 grams including 15 mm lens Dimensions 150 x 130 x 177 mm incl 50 mm lens 150 x 130 x 247 mm incl 15 mm lens Lens mount options M42 custom lens Operating temperature -20 - +50 °C Regulations CE (EN 61000-6-2 EN 61000-6-3), FCC Part 15 class B, RoHS/WEE Back focal length ≥ 59 mm in air Power 18-24V DC +/-10%, 12W	20/20/20/20/20 Beam Split	Channel 3: 590 – 670 nm or Custom	
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$\begin{array}{ccc} Dimensions & 150 \times 130 \times 177 \text{ mm incl } 50 \text{ mm lens} \\ & 150 \times 130 \times 247 \text{ mm incl } 15 \text{ mm lens} \\ \\ Lens mount options & M42 custom lens \\ \\ Operating temperature & -20 - +50 °C \\ \\ Regulations & CE (EN 61000-6-2 EN 61000-6-3), FCC Part 15 \\ \\ class B, RoHS/WEE \\ \\ Back focal length & \geq 59 \text{ mm in air} \\ \\ Power & 18-24V DC +/-10\%, 12W \\ \\ \end{array}$			
150 x130 x 247 mm incl 15 mm lens Lens mount options		~1950 grams including 15 mm lens	
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Back focal length ≥ 59 mm in air Power 18-24V DC +/-10%, 12W		CE (EN 61000-6-2 EN 61000-6-3), FCC Part 15	
Power 18-24V DC +/-10%, 12W		class B, RoHS/WEE	
	Back focal length	≥ 59 mm in air	
Humidity 20-90% Non condensing	Power	18-24V DC +/-10%, 12W	
	Humidity	20-90% Non condensing	

Ordering information

North America

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Rest of World

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9 0 8 6 3 6 3 4

Hirose HR10A-10P-12S

Pin	Signal	Function
1	GND	GROUND
2	Vin	+15-24V
3	DNC	Do not connect
4	DNC	Do not connect
5	DNC	Do not connect
6	DNC	Do not connect
7	Trigger in	Input trigger
8	Trigger out	Output trigger
9	DNC	Do not connect
10	DNC	Do not connect
11	DNC	Do not connect
12	DNC	Do not connect

Hight resolution & footprint table

15mm Lens

50m	Footprint	37,56 x	19,95	m/ image
	Resolution	1,83 x	1,83	cm/pixel
100m	Footprint	75,11 x	39,89	m/ image
	Resolution	3,67 x	3,67	cm/pixel
250m	Footprint	187,78 x	99,73	m/ image
	Resolution	9,17 x	9,17	cm/pixel

50mm Lens

50m	Footprint	11,27	Х	5,98	m/ image
	Resolution	0,55	Х	0,55	cm/pixel
100m	Footprint	22,53	Χ	11,97	m/ image
	Resolution	1,10	Х	1,10	cm/pixel
250m	Footprint	56,34	Х	29,92	m/ image
	Resolution	2,75	Х	2,75	cm/pixel