

Quattro DigiCAM[®]

Modular Large Format Aerial Camera

The *Quattro DigiCAM* is part of the IGI *DigiCAM* range since 2008. With an overall resolution of up to 235 megapixel, the system offers the highest resolution on the market and thereby reduces the number of flight lines.

Being part of IGI's Modular System Concept parts of the system can be used in different compatible systems such as *DigiTHERM* and *LiteMapper*. As a special feature the system can be converted to a *Quattro DigiCAM Oblique*.

Complete Solution:

IGI offers a complete solution for a modern digital aerial camera system. Components are:

- Mission Planning Software
IGIplan
- Aircraft Guidance & Sensor Management
CCNS4
- GPS/IMU System for direct georeferencing
AEROcontrol with *AEROoffice*
- Postprocessing Software
Support of common photogrammetric software packages



Highlights

- Modular Large Format Camera
- 235, 191 or 145 megapixel resolution
- Focal length 80, 100 or 150 mm
- Compatible with stabilized mounts (GSM3000, PAV-80, PAV-30)
- Frame rate up to 1.6 sec
- GSD of 6.5 cm at 1000 m altitude (227 megapixels, 100 mm focal length)
- Rugged, compact and lightweight design
- Hot swap storage unit for unlimited flying time
- Online flight information for image preview, histogram, GSD and remaining images
- Adjustments of aperture, shutter speed and ISO values are possible during operation
- RGB or CIR images possible

Quattro DigiCAM® - Specifications

SPECIFICATIONS 235 Megapixel

Sensor Size	235 Megapixel, 18,500 x 12,750 pixel
Pixel Size	6.0 µm
Maximum Frame Rate	1.6 sec
Storage Units with SSD or HDD	Storage Units for 2900 images (1 TB)

SPECIFICATIONS 191 Megapixel

Sensor Size	191 Megapixel, 16,550 x 11,600 pixel
Pixel Size	6.0 µm
Maximum Frame Rate	1.6 sec
Storage Units with SSD or HDD	Storage Units for 3480 images (1 TB)

SPECIFICATIONS 145 Megapixel

Sensor Size	145 Megapixel, 14,000 x 10,392 pixel
Pixel Size	6.8 µm
Maximum Frame Rate	1.9 sec
Storage Units with SSD or HDD	Storage Units for 4400 images (1 TB)

SPECIFICATIONS

Filter Array	Interchangeable Color (RGB) or Color-Infrared (CIR)	
Shutter	Electronically controlled leaf shutter	
Shutter Speed Options	1/800 to 1/125 sec	
Analog to Digital Conversion	16 bit	
Lenses	80, 100 and 150 mm	
Image Data Formats	TIFF, JPEG, DNG (optionally 8 or 16 bit)	
Maximum Aperture	2.2 (@ 100 mm)	
Maximum Operating Altitude	No limits with SSD; 3000 m with HDD	
Physical Dimensions (mm)	DigiControl with Storage Units	634w x 542h x 354d
	15" TFT touch-screen	330w x 260h x 38d
Weight of System (kg)	Camera	30
	DigiControl with Storage Units	30
	15" TFT touch-screen	2.5
Power Consumption at Full Performance	Camera	60W @ 20 ... 30 VDC
	DigiControl	100W @ 20 ... 30 VDC
	15" TFT touch-screen	26W @ 20 ... 30 VDC



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