


Penta DigiCAM®

Modular Nadir & Oblique Aerial Camera

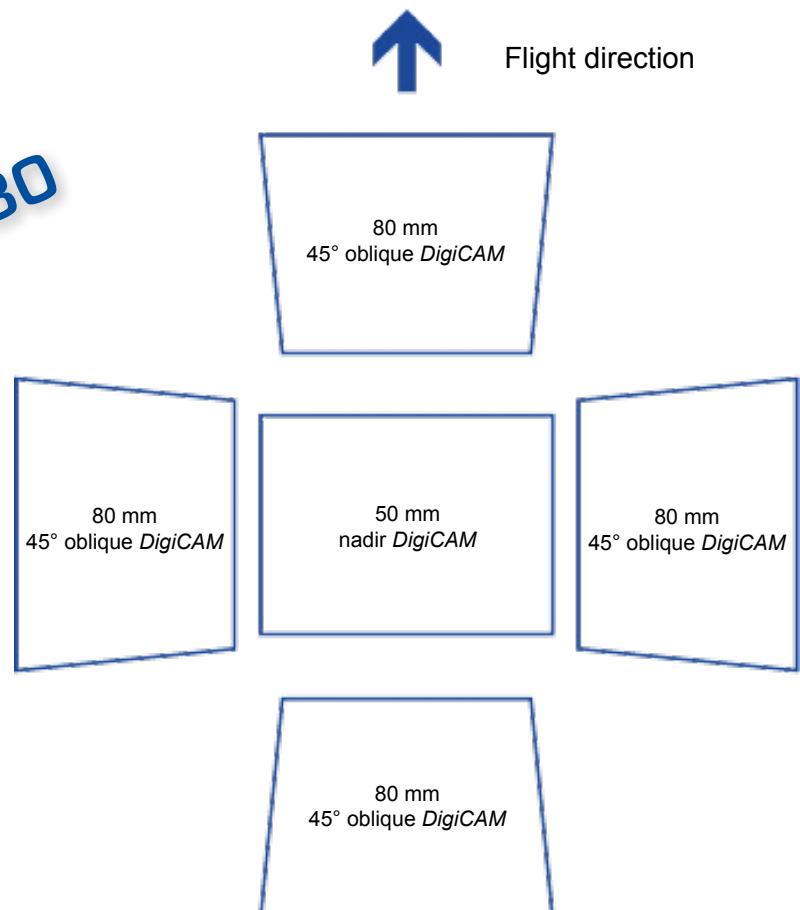

 The *Penta DigiCAM* is part of the IGI *DigiCAM* range since 2008. The *Penta DigiCAM* is based on five *DigiCAM* modules, four of whom are arranged oblique and one nadir. The system is optimal for quick capturing of nadir & oblique imagery within one flight. This solution offers online flight information as Image Preview, Histogram, GSD, etc. within the user interface for the operator. The user interface for all cameras is bundled in one screen and all five cameras are handled as one system or individually. Being part of IGI's Modular System Concept, parts of the system can be used in different compatible systems such as *DigiTHERM*, *LiteMapper*, *StreetMapper* or *RailMapper*.

Nadir & Oblique Imagery

3D City Modelling

IGI Modular Concept

Suitable for GSM3000, PAV-80, PAV-30



Penta DigiCAM Footprint

On the right is one example constellation for the *Penta DigiCAM* with four 45° oblique *DigiCAM*s and one nadir *DigiCAM*. Customized installations with different oblique angles are possible on request.

Penta DigiCAM - Modular Nadir & Oblique Aerial Camera

SPECIFICATIONS 60 Megapixel

Sensor Size	60 Megapixel, 40.248 x 53.736 mm
Pixel Size	6.0 µm
Image Size	8956 x 6708 pixels
Maximum Frame Rate	1.6 sec
SSD Storage Units	Storage Units for 5800 images (500 GB)

SPECIFICATIONS 50 Megapixel

Sensor Size	50 Megapixel, 36.792 x 49.056 mm
Pixel Size	6.0 µm
Image Size	8176 x 6132 pixels
Maximum Frame Rate	1.6 sec
SSD Storage Units	Storage Units for 6960 images (500 GB)
Filter Array	Interchangeable Color (RGB) or Color-Infrared (CIR)

SPECIFICATIONS 40 Megapixel

Sensor Size	40 Megapixel, 43.824 x 32.868 mm
Pixel Size	6.0 µm
Image Size	7304 x 5487 pixels
Maximum Frame Rate	1.2 sec
SSD Storage Units	Storage Units for 8800 images (500 GB)
Filter Array	Interchangeable Color (RGB) or Color-Infrared (CIR)

SPECIFICATIONS

Shutter	Electronically controlled leaf shutter	
Shutter Speed Options	1/800 to 1/125 sec	
Analog to Digital Conversion	16 bit	
Lenses	80 mm for oblique <i>DigiCAM</i> , 50 mm for nadir <i>DigiCAM</i>	
Image Data Formats	TIFF, JPEG, DNG (optionally 8 or 16 bit)	
Maximum Aperture	2.2 (@ 100 mm)	
Maximum Operating Altitude	No limit	
Physical Dimensions	<i>Penta DigiCAM</i> suitable for GSM3000, PAV80 & PAV30	
	Camera with Storage Units	ø402 - 436 x 830 mm ø15.83 - 17.17 x 32.68 inches
	15" operator touch-screen	330 x 260 x 38 mm 13 x 10.24 x 1.5 inches
Weight of System	Camera with Storage Units	55 kg (121 lbs)
	15" operator touch-screen	2.5 kg (5.5 lbs)
Power Consumption	Camera with Storage Units	225W @ 20 ... 30 VDC
	15" operator touch-screen	26W @ 20 ... 30 VDC



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