

Penta-DigiCAM[®]

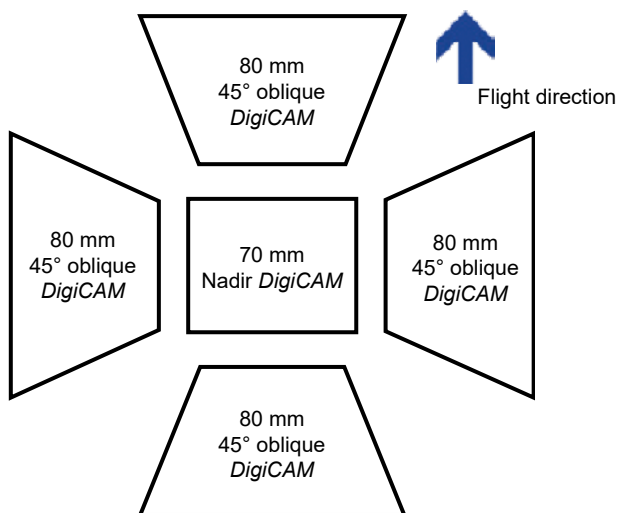
Modular Nadir & Oblique Aerial Camera



The IGI Penta-DigiCAM is part of the IGI DigiCAM range since 2008. The Penta-DigiCAM is based on five DigiCAM modules, four of which are arranged oblique and one nadir. All GNSS/IMU and camera control units are integrated and mounted on top of the camera. The system is optimal for capturing of nadir & oblique imagery within one single flight.

IGI Penta-DigiCAM Footprint

Below an example constellation for the Penta-DigiCAM with four 45° oblique DigiCAMs and one nadir DigiCAM. Customized installations with different oblique angles and lenses are possible on request.



3D City Modelling

Suitable for
GSM4000 / 3000,
PAV-100 / 80 / 30

IGI Penta-DigiCAM® - Specifications

SPECIFICATIONS IGI Penta-DigiCAM

Nadir Image Size, RGB*	14,204 x 10,652 pixels, 150MP	
Nadir Image Size, NIR*	11,608 x 8,708 pixels, 100MP	
Oblique Image Size, RGB*	11,664 x 8,750 pixels, 100MP	
Channels	RGBI, RGB, CIR, NIR (nadir), 4x RGB (oblique)	
Sensor Technology	BSI (Back Side Illuminated) CMOS	
Pixel Size	3.76 µm	
Maximum Frame Rate	0.6 sec	
Dynamic Range	83 dB	
Compensation	FMC by BCM	
SSD Hot-plug Storage Units with IGI Redundant Storage Technology	Storage Units for >13,500 images (12, 6, 3 TB)	
Lenses (Nadir / Oblique)*	70/80, 90/110, 90/150	
Shutter	Electronically controlled leaf shutter	
Shutter Speed Options	Up to 1/2000 sec for 90 mm lense Up to 1/2500 sec for 70, 80, 110, 150mm lenses	
Analog to Digital Conversion	16 bit	
Maximum Operating Altitude	No limit	
Data Processing	IGI IPS - Image Processing Software with export to standard formats	
System Weight	IGI Penta-DigiCAM Sensor Part	49 kg (108 lbs)
	IGI Penta-DigiCAM SMU Part	13 kg (29 lbs)
	IGI Penta-DigiCAM Operator Screen	2.4 kg (5.3 lbs)
	Cabeling, antenna, etc.	3.5 kg (7.7 lbs)
Power Consumption	IGI Penta-DigiCAM	180W @ 28 VDC
	IGI Penta-DigiCAM Operator Screen	80W @ 28 VDC

*Different sensor & lens combinations are available on request. Please contact our sales team for details.



AGL 490m / 1600ft - 2.5 cm GSD



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