

DigiCAM-50

Medium Format Aerial Camera



DigiCAM is a result of the IGI's passion for airborne developments. It is an aerial digital camera system in medium format, providing professional photogrammetry.

The *DigiCAM* combined with *CCNS-5* and *AEROcontrol* provides the complete solution for generating directly georeferenced images on a planned mission.

Highlights

- 50 MP resolution
- Up to 0.6 sec frame rate, high shutter speed up to 1/2500 sec
- FMC by BCM
- High Dynamic Range 84dB
- Phase One Camera Module with CMOS Sensor Technology
- *IGI SMU-2 (Sensor Management Unit)*
- Up to 4TB hot-swap Storage Units with *IGI Redundant Storage Technology*
- Integrated Sensor Management (*IGIvisu*)
- *IGI FRAMEtrack*: real-time, geo-referenced imagery previews during the flight
- *IGI IPS*: Image Processing Software with export to standard formats
- Integrated GNSS/IMU System (*AEROcontrol*)
- Integrated Mission Planning & Flight Guidance (*CCNS-5* with *IGIplan*)
- 10" or 20" Operator Touch-Screen
- Upgradeable to multi *DigiCAM* systems e.g. *IGI Penta-DigiCAM* or *IGI UrbanMapper*
- Support for custom installations and combinations with *IGI LiteMapper*, Airborne LiDAR Systems

IGI DigiCAM® - Specifications

SPECIFICATIONS IGI DigiCAM-50	
Image Size*	8,280 x 6,208 pixels, 50 MP
Channels	RGB
Sensor Technology	CMOS
Pixel Size	5.3 µm
Maximum Frame Rate	0.6 sec
Dynamic Range	84 dB
Compensation	FMC by BCM
SSD Hot-plug Storage Units with IGI Redundant Storage Technology	Storage Units for >50,000 images (4, 2, 1, 0.5 TB)
Lenses	32, 40, 50, 70, 90mm Rodenstock, 110, 150, 180, 300mm Schneider-Kreuznach

SPECIFICATIONS IGI DigiCAM		
Shutter	Electronically controlled leaf shutter, up to 1/2500 sec	
Analog to Digital Conversion	16 bit	
Maximum Operating Altitude	No limit	
System Weight	DigiCAM-50 Camera Head with 50 mm Lens	1.8 kg (4.0 lbs)
	DigiCAM-50 Camera Head with 80 mm Lens	1.1 kg (2.4 lbs)
	IGI DigiControl with Storage Unit	1.9 kg (4.1 lbs)
	10" Operator Touch-Screen	1.2 kg (2.7 lbs)
	20" Operator Touch-Screen	2.4 kg (5.3 lbs)
	Cabeling, Antenna, etc.	0.5 kg (1.1 lbs)
Power Consumption	DigiCAM-50 Camera Module	16W @ 30 VDC
	DigiCAM-50 Camera Module	14W @ 30 VDC
	IGI DigiControl with Storage Unit	30W @ 28 VDC
	10" Operator Touch-Screen	22W @ 28 VDC
	20" Operator Touch-Screen	80W @ 28 VDC



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