DigiCAM-100
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

- 100 MP resolution, RGB or NIR
- Up to 0.6 sec frame rate, high shutter speed up to 1/2500 sec
- FMC by BCM
- High Dynamic Range 83dB
- Phase One Camera Head with BSI CMOS Sensor Technology
- Channels: RGBI, RGB, CIR, NIR
- *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 System

SPECIFICATIONS *IGI DigiCAM-100 RS*

Image Size	11,608 x 8,708 pixels, 100 MP
Channels	RGBI, RGB, CIR, NIR
Sensor Technology	CMOS
Pixel Size	4.6 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 >40,000 images (4, 2, 1, 0.5 TB)
Lenses	32, 40, 50, 70, 90mm Rodenstock, 110, 150, 180, 300mm Schneider-Kreuznach

SPECIFICATIONS *IGI DigiCAM-100*

Image Size	11,664 x 8,750 pixels, 100 MP
Channels	RGBI, RGB, CIR, NIR
Sensor Technology	BSI-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 >40,000 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-100 RS* Camera Head with 50 mm Lens	1.8 kg (4.0 lbs)
	DigiCAM-100 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 20" Operator Touch-Screen	1.2 kg (2.7 lbs) 2.4 kg (5.3 lbs)
	Cabeling, Antenna, etc.	0.5 kg (1.1 lbs)
Power Consumption	*DigiCAM-100 RS* Camera Head	16W @ 30 VDC
	DigiCAM-100 Camera Head	14W @ 30 VDC
	IGI DigiControl with Storage Unit	30W @ 28 VDC
	10" Operator Touch-Screen 20" Operator Touch-Screen	22W @ 28 VDC 80W @ 28 VDC