

Penta-DigiCAM-280

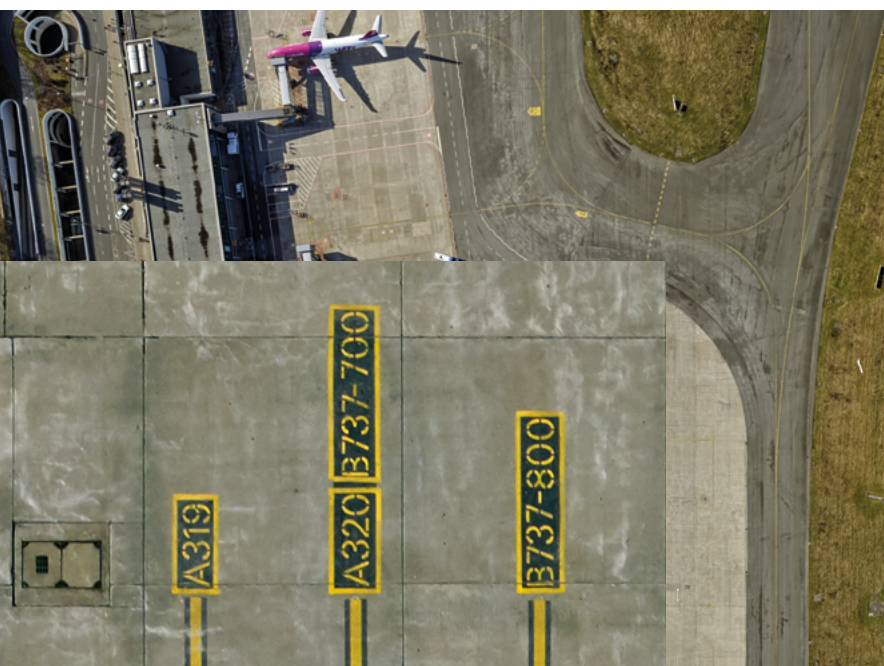
Next Level Aerial Photogrammetry & 3D Survey

The IGI Penta-DigiCAM-280 is part of the IGI DigiCAM series since 2022. The PDC-280 is a 2-IN-1 large format & oblique aerial camera system. The IGI PDC-280 is optimal for capturing high resolution data of nadir & oblique imagery within one single flight for the automatic true ortho production and 3D digital twin creation.

IGI PDC-280 Facts

Large Format RGBI:	285 MPixel	Lens Nadir:	90mm
Oblique RGB:	4x 150 MPixel	Lens Oblique:	110mm

GSD	1.5 cm	→	350m	/	1,150ft	AGL
GSD	2 cm	→	490m	/	1,600ft	AGL
GSD	3.5 cm	→	840m	/	2,750ft	AGL
GSD	5 cm	→	1,200m	/	3,950ft	AGL
GSD	7.5 cm	→	1,800m	/	5,900ft	AGL
GSD	10 cm	→	2,400m	/	7,900ft	AGL
GSD	15 cm	→	3,600m	/	11,800ft	AGL
GSD	20 cm	→	4,780m	/	15,700ft	AGL



IGI Penta-DigiCAM-280 - Specifications

SPECIFICATIONS IGI Penta-DigiCAM		
Nadir Image Size, RGBI	20,200 x 14,110 pixels, 285MP	
Oblique Image Size, RGB*	14,204 x 10,652 pixels, 150MP	
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 (16 or 8 TB per set)	
Lenses (Nadir / Oblique)*	90 / 110	
Shutter	Electronically controlled leaf shutter	
Shutter Speed Options	Up to 1/2000 sec for 90 mm lense Up to 1/2500 sec for 110mm 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 PDC-280 Sensor Part	49 kg (108 lbs)
	IGI PDC-280 SMU Part	13 kg (29 lbs)
	IGI PDC-280 Operator Screen	2.4 kg (5.3 lbs)
	Cabeling, antenna, etc.	3.5 kg (7.7 lbs)



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