

DigiCAM™ - Digital Aerial Modular Camera System Specifications

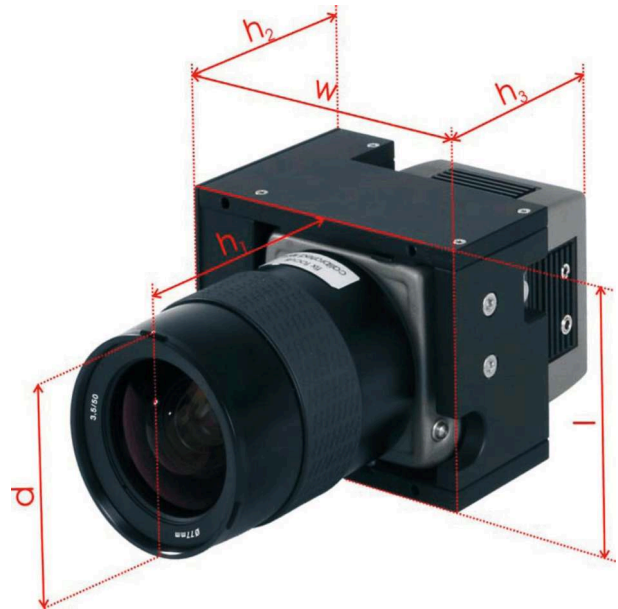


SPECIFICATIONS 39 Megapixels		
Array size	39 Mpixels, 36.80 x 49.07 mm	
Pixel size	6.8 µm	
Image size	7216 * 5412 pixels	
Max. exposure rate	1.9 sec	
Data storage with HDD or SSD	External storage units for 8000 images (2 x 4000)	
SPECIFICATIONS 50 Megapixels		
Array size	50 Mpixels, 36.79 x 49.06 mm	
Pixel size	6 µm	
Image size	8176 * 6132 pixels	
Max. exposure rate	1.6 sec	
Data storage with HDD or SSD	External storage units for 6240 images (2 x 3120)	
SPECIFICATIONS 60 Megapixels		
Array size	60 Mpixels, 40.30 x 53.78 mm	
Pixel size	6 µm	
Image size	8964 * 6716 pixels	
Max. exposure rate	1.6 sec	
Data storage with HDD or SSD	External storage units for 5200 images (2 x 2600)	
SPECIFICATIONS		
Filter array	Interchangeable Color (RGB) or Color-Infrared (CIR)	
Shutter	Electronically controlled leaf shutter	
Shutter speed options	1/800 to 1/125 sec	
Analog to digital conversion	16 bits	
Lenses	28, 35, 50, 80, 100, 150, 210 or 300 mm	
Image data formats	TIFF, JPEG, DNG (optionally 8 or 16 bit)	
Maximum aperture	2.2 (@ 100 mm)	
Maximum operating altitude	3000 m with HDD; no limits with optional SSD	
Physical dimensions (mm)	DigiControl incl. Storage Units	280 x 195 x 85
	8" TFT touch-screen	212 x 162 x 36
Weight (kg)	Camera body	1.7
	Lens (approx.)	1.0
	DigiControl	3.0
	8" TFT touch-screen	0.9
Power consumption at full performance	Camera	15W @ 20 ... 30 VDC
	DigiControl	25W @ 20 ... 30 VDC
	8" TFT touch-screen	15W @ 20 ... 30 VDC

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RADIOMETRY				
Color Mode	Resulting color	blue	green	red
	Wavelength (nm)	400 - 540	480 - 600	580 - 660
CIR Mode	Resulting color	blue	green	red
	Wavelength (nm)	500 - 620	580 - 800	800 - 1000

SPECIFICATIONS CAMERA BODY	
Camera dimensions (mm):	
length (l)	101
width (w)	131
height of camera body (h2)	92
height including digital back (h3)	118
Weight (kg)	1.72



SPECIFICATIONS LENSES								
Lens dimensions (mm):								
focal length	28	35	50	80	100	150	210	300
length (h1)	102	124	116	70	80.5	124	165	198
diameter (d)	100	100	85	84	87.5	86	85	100
Weight (kg)	0.850	0.975	0.975	0.475	0.78	0.97	1.32	2.12
Maximum aperture	4	3.5	3.5	2.8	2.2	3.2	4	4.5
39 & 50 Megapixels								
FOV (degrees, fixed), cross-track	81°	69°	52°	33°	28°	19°	13°	9°
FOV (degrees, fixed)	65°	54°	40°	25°	21°	14°	10°	7°
Lens distortion	remaining distortion less than 0.002 mm							
60 Megapixels								
FOV (degrees, fixed), cross-track	86°	74°	56°	36°	30°	20°	15°	10°
FOV (degrees, fixed)	70°	59°	44°	27°	23°	15°	11°	8°
Lens distortion	remaining distortion less than 0.002 mm							

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