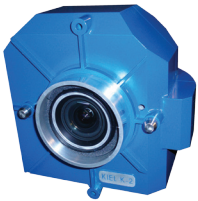


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Camera



K2
kiel



K3
kiel

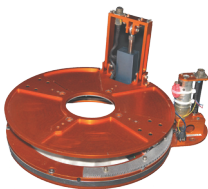
Compatible cameras	Kiel K2 or Kiel K3
Image size	39 Mp (5412 x 7216 pixels) with Kiel K3 12 Mp (2848 x 4288 pixels) with Kiel K2
Pixel size	0.0068 x 0.0068 mm for Kiel K3 0,005 x 0.005 mm for Kiel K2
Spectral sensitivity	Visible
Channels	RGB (16 bits per channel) for Kiel K3 RGB (8 bits per channel) for Kiel K2
Thermoregulated control system	Twin Balanced maintaining optics at 20°C +/- 1°C
Photogrammetry Grade (Metric)	YES
Calibration	Calibrated with full report
Max. exposure rate (sustained)	1.9 sec/image

In Board Computer System



Direct Georeferencing	Embedded GPS with 2 GPS antennas for attitude computation
Navigation	Laptop computer with embedded XEOS Flight Management Suite software
Flight Management	Remote Pilot Display for guidance system Electronic Viewfinder system High capacity data storage Automatic trigger based on GPS position Remote control of the camera BIAx platform, auto and manual Camera's operating temperature monitoring Images quality monitoring

Camera platform



Type	XEOS BIAx
Axis of rotation	2
Maximum rotation	+/- 45° in Kappa axis +/- 10° in vertical axis
Control	Computer controlled or manual
Forward-motion compensation (FMC)	Not required

System performance

Position (m) of single images	Planimetric: <0.6m (95% confidence) Vertical: <0.8m (95% confidence)
Orthomosaic accuracy without Ground Control Points (GCPs)	+/- the highest of: 1.0 m or (pixel resolution in cm x 7.5cm)
Orthomosaic accuracy with GCPs ¹	+/- 2 pixels

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System Physical Data

Weight (whitout camera).....	9,5 kg
Power	12 volts DC (24 32 VDC with adaptor)
Electrical current including camera	'10 A max.

System Operating Conditions

Maximum operating altitude	Up to 8 000 meters (non-pressurized)
Temperature	-15 to 40°C
Humidity	15 to 80% RH (non-condensing)

Processing Software

In-Flight software	Navigation software, camera control and image management tools.
Post-processing softwares	Photogrammetry tools: Automatic tie points extraction, Aerotriangulation, DEM generation, color balancing, ortho-mosaicking and stereo models generation.

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