



kiel

K3

The Kiel K3 high resolution digital camera is specifically designed with aerial photography applications in mind. Equipped with the first thermoregulated control system to provide outstanding optical and mechanical stability, the Kiel K3 camera meets the most demanding photogrammetric requirements. The K3 medium format single head camera is well suited for area and corridor image capture.

Technical Data

SENSOR

Sensor Type	Full frame, Charge Coupled Device (CCD)
Sensor Dimension	49.1 x 36.8 mm
Pixel size	0.0068 x 0.0068 mm
Spectral sensitivity	Visible
Channels	RGB (16 bits per channel; 48 bits total)

IMAGE & STORAGE

Image dimension	7216 x 5412 pixels
Storage format	RAW
Image weight	27 Mb/image
Communication protocole	FireWire
Max. exposure rate (sustained)	1.9 sec/image
Pixel size on the ground at flying height of 300m (1000 ft)	4.6 cm

OPTICAL SYSTEM

Focal length	45mm
Field of view	57.2° x 44.5°
Shutter speed	1/800 to 1/3000
f-stop	f/2.0 to f/22
Equivalent ISO	Up to 400
Forward-motion compensation (FMC)	Not needed

OPTICAL STABILITY

Photogrammetry Grade (Metric)	YES
Calibration	Metric Calibrated with full report
Thermoregulated control system	Twin Balanced maintaining optics at 20°C +/- 1°C

PHYSICAL CHARACTERISTICS

Dimension (w x h x d)	272 x 190 x 172 mm
Weight	4,83 kg
Mounting of the camera	BlAX mounting
Power consumption	40 watts

OPERATING CONDITIONS

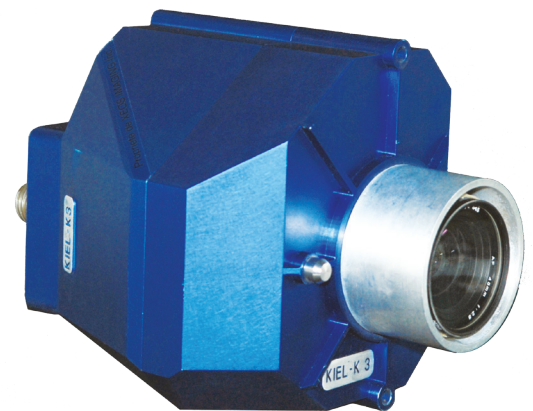
Maximum operating altitude	Up to 8 000 meters (non-pressurized)
Temperature	- 10 to 30°C
Humidity	15 to 80% RH (non-condensing))
Connectors	Military grade

APPLICATIONS

Aerial Photography

Key Features and Benefits

- › Thermoregulated twin balanced control system for outstanding optical and mechanical stability.
- › Rugged housing providing great reliability.
- › Designed to produce sharp high resolution images.
- › Single head camera for accurate and simplified image processing.



**Ultra Sharp, Accurate and Reliable
Data Acquisition**

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