

AeroCam-T

Metric Aerial Camera



AeroCam-T is a high resolution digital camera designed for aerial survey applications. AeroCam-T is a cost-effective medium format metric camera that enables precise photogrammetric mapping for small and medium sized projects.

Its robust housing with a minimum of mechanical parts ensures high reliability and a long lifetime. Unlike many cameras, the shutter is in the lens. In the unlikely event of shutter failure, you can replace the lens in the field and be back in operation during your window of opportunity.

You can choose between digital backs from 39 to 80 Mega pixels with a range of professional lenses in several focal lengths. The camera is available with or without forward motion compensation. Models with RGB and RGB + NIR spectral bands are on offer if your tasks include some spectral work.

The robust camera design and special lens connection guarantees the stability of the geometric calibration. The central shutter with a speed up to 1/1000 of a second guarantees more than 50.000 shots (MTBF).

A huge number of professional lenses offer choices so that you can optimise your system for your specific application. The small size and weight of the camera makes it useful for small aircraft such as ultralights and UAVs.

AeroCam-T should be your choice if setting out to do professional work within a moderate budget.

- x Robust Camera Design**
- x Various professional Lenses**
- x Central Shutter with speeds 1/1000 sec**
- x Digital backs of 39, 60 and 80 MPix**
- x Stable camera calibration**
- x Optional RGB, CIR or NIR**
- x Forward Motion Compensation (FMC)**
- x Available as dual camera setups**

Details: AeroCam-T

Camera Body:

- Robust Industrial Camera body
- Precisely fixed Digital Back
- Bayonet Lens Connector with Torque ring
- Electronically controlled Leaf Shutter
- Shutter speed 30sec - 1/1000 sec. >50.000 shots MTBF
- Power supply 18-30V DC, 250 mA cont., max 2 A (1 ms)
- Black box with Firmware to control the Camera and lens
- electronic release port
- event port (mid exposure pulse)
- RS232 Port for Camera control
- Optional light meter
- Temperature range: -20°C to +70°C
- Size: 110*150*150 mm
- Weight (without lens): 1400 g
- Camera mounting block

Digital backs:

39 megapixel:

CCD Chip 49.1*36.8 mm
7216 * 5412 pixel @ 6,8 µm
Bayer pattern, 16 bit per color
ISO: 50-800
640 MB Buffer
0,67 frames / sec
2.2" QVGA TFT Display
Firewire 400

65 megapixel

CCD Chip 53.9 x 40.4 mm
8894 * 6732 Pixel @ 6 µm
Bayer pattern, 16 bit per color
ISO: 50-800
1,3 GB Buffer
1 frame / sec
2.2" QVGA TFT Display
Firewire 400

80 megapixel

CCD Chip 53.7 x 40.4 mm
10328 * 7760 Pixel @ 5.2 µm
Bayer pattern, 16 bit per color
ISO: 35-800
1 GB Buffer
0.7 frame / sec
3.2" Touch TFT Display
Firewire 800

Lenses:

Apo-Digitar 5,6/35 mm
Digitar 5,6/47 mm
HR Digaron-W 4/50 mm
Apo-Sironar Digital 4,0/60 mm
Apo-Digitar 5,6/72 mm
Digitar 5,6/100 mm
Apo-Sironar Digital 5,6/135 mm
Apo-Sironar Digital 5,6/150 mm
Other lenses on request

Datastorage:

Internal: CF Card,
External: PC via Firewire and Capture One Software

FMC (Forward Motion Compensation)

Maximum Shift: 10 pixels
Max compensation speed: 8mm/sec
Parameters: Speed over ground, altitude,
focal length

Camera control:

Via external Software (T-Control) or via AeroTopoL for continuous adjustment of the FMC parameters.

Dual Camera System:

Combination of 2 Cameras either to combine RGB and IR Spectral bands (Parallel Viewing) or to enlarge the footprint (squinting view)

- daily chain connection
- one master and 2 slave black boxes
- Special mounting for 2 cameras



Delivery:

Camera body, Black box, Lens, Light meter, Digital Back, Cable set, Control Software, Capture One Software, Calibration for each lens,

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