

3-DAS-1 Digital Aerial Camera

A Wehrli/GeoSystem Instrument

THE NEXT STEP IN PHOTOGRAMMETRY



► UNRIVALED PRICE PERFORMANCE ◀

► NOW YOU CAN COMPETE ◀



SIMPLE DESIGN

- Uncomplicated push-broom design
- Robust design for easy maintenance

TOTAL DIGITAL WORKFLOW

- On-the-fly lossless compression allows for up to 48 hours continuous data capture
- Eases ground control requirements
- Perform camera calibration and image rectification based on GPS/IMU data
- Digital stereo imagery available for measurement

COMPATIBLE

- Interfaced to popular IMU/GPS systems e.g. Applanix™, Leica™, IGT™, Novatel
- Integrated to various stabilizer platforms; e.g. ASP-1, Leica™ PAV30



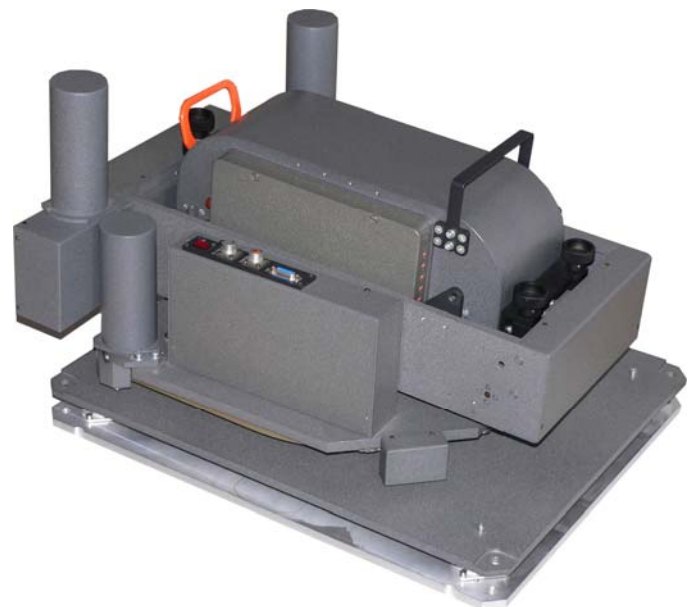
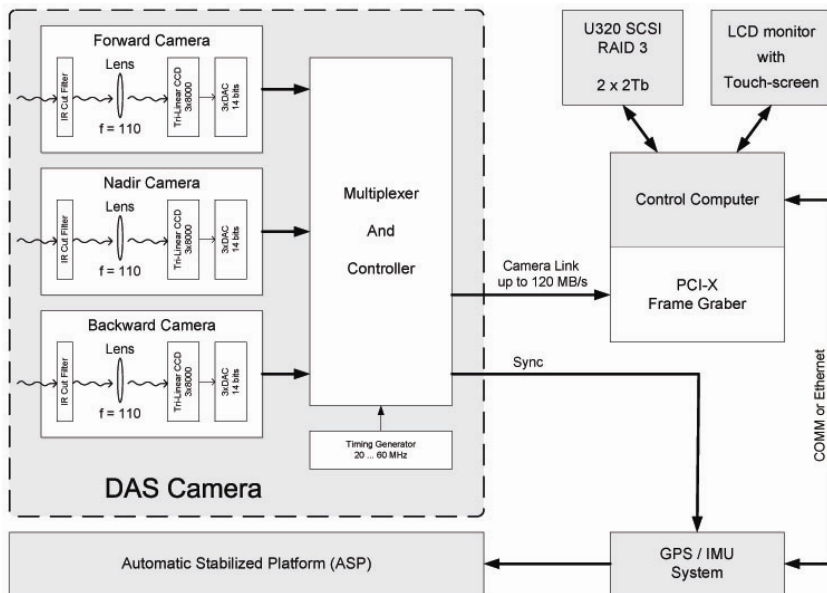
<i>Camera System Components</i>	
3-DAS-1	3x3x8023 Kodak line sensors; 3x high contrast lenses IMU mount Camera electronics
ASP-1	Unique stabilized platform Interfaced to IMU Stabilized accuracy 0.1° (max residual)
Software	<p>Flight Management Mission planning; flight management with trajectory control</p> <p>Scanning: Sensor control Real time image control/viewing Histogram analysis and statistics Curve, gamma corrections</p> <p>Viewer: Raw files of unlimited size Support 8 to 16 bits per color channel Output various image formats Cuts image strip into image frames</p> <p>Photogrammetric Processing Post mission processing Level 0 to Level 1 conversions Rectification for stereo compilation Orthorectification</p>
Computer	2xOpteron64/PCI-X/RAM 4Gb 2xRAID-3 2.0Tb/UltraSCSI320 Touchscreen Windows XP Pro

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3-DAS-1 Specifications	
Architecture	Three line scanner 26° forward, 16° backward, nadir
Sensors	3xKodak Tri-linear 8023
Radiometric Resolution	14 bits per channel
Pixel Size	9 μm
Line Rate	250-750 lines per second
Lenses	3x high contrast lenses
Focal Length	110mm
F-stops	1:2 to 1:16
Resolution	55 lp/mm
Geometric Accuracy	1.0 pixel RMSE
Radiometric Resolution	14 bits per channel output
FOV - Cross Track	36°
Voltage	DC 28V/20A
Dimensions	550x234x340 mm
Weight	32 Kg.

Scale	Altitude (Meters)	GSD (cm)	Flight Line (Meters)
3000	330	2,7	216
4000	440	3,6	288
5000	550	4,5	360
6000	660	5,4	432
7000	770	6,3	504
8000	880	7,2	576
9000	990	8,1	648
10000	1100	9,0	720
11000	1210	9,9	792
12000	1320	10,8	864
13000	1430	11,7	936
14000	1540	12,6	1008
15000	1650	13,5	1080
16000	1760	14,4	1152
17000	1870	15,3	1224
18000	1980	16,2	1296
19000	2090	17,1	1368
20000	2200	18,0	1440



3-DAS-1 Mounted In The ASP-1 Platform