

DIGITAL CAMERA ROLLEI

The Rollei AIC is a highly durable, reliable digital camera system that incorporates Phase One's Digital Back to provide superior digital imagery.

Key Features/Benefits

- Specially designed with minimal moving parts, intended for an aircraft's high-vibration environment. Superior endurance, stability and reliability.
- High resolution digital images
- Shutter speed of 1/1000th second
- Stable one-piece aluminum alloy body for enhanced endurance in aerial applications
- Stable metric calibration throughout multiple missions
- Additional 50 mm lens for back-up during missions
- AC Control 6008 software provided with each AIC for remote control camera monitoring during missions
- Flexible camera orientation - landscape or portrait

**Rollei AIC —
resolution, reliability, versatility**

Optech 



ROLLEI AIC DIGITAL CAMERA

CAMERA

Array size: 22 megapixel (5440 x 4080)
Pixel size: 9 microns
Lenses: 2 Super Angulon 50 mm, f/2.8
Digital back: H25 CCD sensor manufactured by Phase One
Shutter: Electronically controlled leaf shutter
Shutter speed: 125 - 1000 sec
Aspect ratio: 3:4
Exposure control: Automatic aperture mode with shutter priority when light meter is used
Exposure compensation: ± 1 EV in 1/3 EV steps
Maximum exposure rate: 4 sec
Light metering: Center weighted average

CAMERA COMPUTER

Hardware

Internal disk drive: Ruggedized RAID, 320 GB
Removable disk drive: 250 GB
Connections: Ethernet, TTL, RS-232C interfaces to standard Flight Management System and Applanix POS/AV

Software

AC Control 6008: Controls parameters such as camera aperture, shutter speed, performance. Stores log report of all camera functions performed during mission including errors and warnings.
Image capture
Capture One: Controls capture of images in raw digital format. Develops the raw images to 8- or 16-bit TIFF format.
Image extraction and post-processing development
Optional QC thumbnail image via ethernet or remote display.

Physical

	CAMERA	CAMERA COMPUTER
Size:	150 x 150 x 250 mm	146 x 483 x 406 mm
Weight:	3.6 kg (50 mm lens)	~21 kg
Temperature:	-10 to +40°C	-10 to +55°C
Humidity:	5 - 90% RH non-condensing	
Power:	15 - 18 VDC (min 250 mA)	28 VDC, ~300 W (max)

Optech

IT'S ALL ABOUT THE SCIENCE

300 Interchange Way • Vaughan, ON • Canada L4K 5Z8 • Tel: [905] 660-0808

Web: www.optech.ca/science7 • Email: science7@optech.ca

© Copyright 2006, Optech Incorporated. All rights reserved. 062606 All information is subject to change without notice.