

# DIGITAL CAMERA APPLANIX

The Applanix DSS 322 Digital Camera quickly provides superior digital imagery with its super-fast digital chip and direct georeferencing.

## Key Features/Benefits

- High quality color digital imagery
- Fast shutter speed of 1/4000th second
- Interchangeable Carl Zeiss lenses (40 mm, 60 mm)
- Extreme accuracy in automatic measurements
- Direct georeferencing capability
- VIS and CIR options
- Ultra-efficient data processing and product handling
- Rapid data capture with super-fast digital chip

**Applanix DSS 322 —  
streamline your airborne  
survey operations**

**Optech** 



# APPLANIX DSS 322 DIGITAL CAMERA

## CAMERA

Array size: 22.2 megapixel (5436 x 4092)  
Pixel size: 9 microns  
Lens: AeroLens™ by Carl Zeiss  
Standard lens: 60 mm, f/3.5  
Optional lens: 40 mm, f/4  
Filters: Color (VIS) or ColorIR (CIR)  
Shutter: Electronically controlled focal plane  
Shutter speed: 125 - 4000 sec  
(slower speeds not recommended)  
Aspect ratio: 1:1  
Exposure control: Aperture priority (calibrated);  
manual or shutter priority  
Exposure compensation: ±2 EV in 1/3 EV steps  
Maximum exposure rate: 2.5 sec  
Light metering: Center weighted average

## CAMERA COMPUTER

### Hardware

Internal disk drive: Pressurized, designed for high altitude  
missions; ~3500 image capacity  
Removable disk drives: 2, ~3500 image capacity each

## Software

DSS Tools: MissionView (data management)  
downloads images; ImageView (image  
development); lens fall-off correction  
<3%; image sharpening tools; format  
conversion; quantization conversion, 8-  
or 12-bit; color balance via calibration inputs  
POSPac Air: GPS aided INS processing tools: differential  
GPS processing, inertial/GPS post-processing  
Photogrammetry tools: Generation of exterior orientation data,  
IMU/camera boresight calibration, camera  
calibration, quality control

## Physical

	CAMERA	CAMERA COMPUTER
Size:	180 x 180 x 360 mm	152 x 483 x 419 mm
Weight:	~7 kg (60.2 mm lens)	~20 kg
Temperature:	0 to +40°C	-20° to +55°C
Humidity:	5 – 90% RH non-condensing	
Power:		28 VDC (max)

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