NanoCam
C1U

NanoCam C1U

Camera Payload for Nanosatellites

- Compact RGB camera for 1U or larger satellites
- Powerful on-board image processing capabilities
- Different lens options available
- Automatic exposure and white-balance adjustment in space

Highlighted Technical Features

Image Acquisition:
- ½" (4:3) format color CMOS sensor
- 2048 x 1536 pixels
- 10-bit RGGB Bayer pattern

Image Processing:
- High-performance ARM processor
- 2 GB on-board image storage
- JPEG, BMP and RAW output formats

Lens Performance:
- High-end ruggedized lens
- 35 mm f/1.9 or 70 mm f/2.2 lens
- Optional filters for UV/IR-cut

Interfaces:
- CAN, I2C, and UART interfaces
- Cubesat Space Protocol compatible
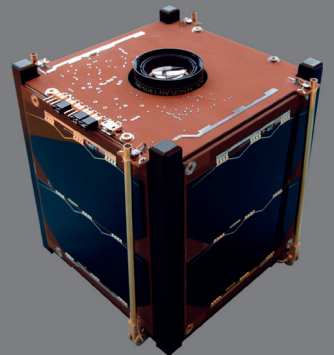- GOSH interface for checkout

Mechanical Features:
- Standard PC/104 size - 96 x 90 mm
- Mass: 169 g with 35 mm lens
- Mass: 277 g with 70 mm lens

With the standard 35 mm and 70 mm lenses, resolutions of <45 m/pixel or <22 m/pixel is possible from a 500 km orbit.

NanoCam C1U is small enough to fit as primary payload in a 1U structure.

The camera provides a compact instrument for low cost earth observation applications based on nanosatellites.