http://www.cubesatkit.com/

CubeSat Kit™
CubeSat Cam (CC 2)

Hardware Revision: A

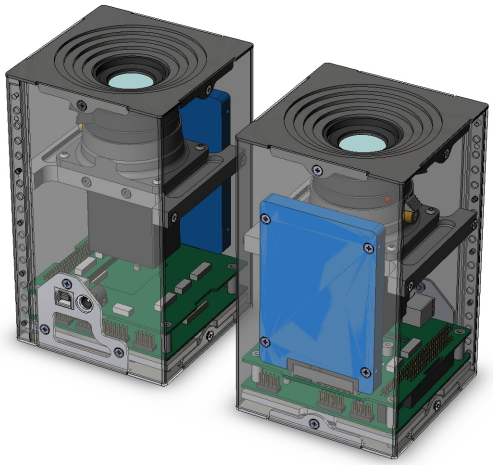
CubeSat-class Imaging Payload to Support Video Framerates

Applications

- Aerial imaging systems
- Nanosatellite imaging systems

Features

- 1500cc, 1.5kg mass in a 1.5U CubeSat form factor
- Accepts wide range of Leica® M-mount lenses
- Integrated high-performance camera:
  - 1” size color CMOS imager with global shutter and RAW output
  - 2048x2048 @ 90fps
  - Selectable bit depths, auto-exposure, configurable, etc.
- Integrated computing platform:
  - 1.2GHz Intel® Core Duo® processor
  - 2GB RAM & 500GB SSD
  - 16GB boot flash disk
  - USB 3.0 and SATA II interfaces, for > 2Gbps throughput
  - Gigabit Ethernet, serial, USB interfaces
  - Windows® and Linux-compatible
- External user interface to commence recording
- Power: +5V only, < 25W
- Available in prototype form
- Sold in pairs only



ORDERING INFORMATION

Pumpkin P/N 710-01102

Contact factory for availability of optional configurations.
Default configuration shown.

CAUTION

Electrostatic Sensitive Devices

Handle with Care

Preliminary

CHANGELOG

Rev.	Date	Author	Comments
A0	20140221	AEK	Initial draft.

Preliminary

OPERATIONAL DESCRIPTION

The CubeSat Cam 2 (CC 2) is an imaging + computing platform geared towards high-framerate (>2Gbps) video capture. It incorporates high-performance optics, an imager capable of 90fps and greater, and a PC-class computing and storage platform capable of continuously acquiring and storing the imager's video stream to local mass storage.

With its 1.5U form factor, +5V-only operation and <25W power requirement, the CC 2 is designed for use in aerial vehicles and CubeSat-class nanosatellites. It is intended to function as a high-performance video capture and/or image processing payload.

Preliminary

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