



# Crystalspace micro Camera System

## **Overview**

Crystalspace micro camera family is the smallest and the most advanced series of satellite camera systems on the market. It suits well for densely packed satellites starting from CubeSats (for taking pictures of the Earth) to large satellites (monitoring cameras). Under 600 meters per pixel ground resolution is achieved from low Earth orbit (600 km) using the basic version of optics (44 x 34 degree field of view) and sensor (640 x 480 pixels).

## **Features**

- Radiation hardened by design
- Architecture flight tested on successful ESTCube-1 satellite
- Nominal power consumption 75 mW with peaks of 240 mW during imaging
- SpaceWire, CAN, RS485, RS422, UART, I2C or SPI controlled
- Able to take pictures with 70 deg/s rotation

## **Available options**

- Baffle for the camera
- Different optics versions
- Calibration of the camera

## **Available sensors**

- VGA 640 x 480 (~0.3 MP)
- 5MP
- other custom ones

## **Product Properties**

- Basic version
  - Dimensions: 45 mm x 25 mm x 45 mm
  - Mass: < 50 g
- Temperature range  $-30\text{ }^{\circ}\text{C}$  to  $75\text{ }^{\circ}\text{C}$
- IPC-A-610 Class 3 assembly
- Assembled in clean room
- Vibration and shock tested
- Thermal vacuum tested
- Flight Proven

