



# Crystalspace Monitoring Camera System

## ***Overview***

Crystalspace Monitoring Camera System which belongs to Crystalspace micro camera systems family is the smallest and the most advanced satellite monitoring camera on the market. It suits well for densely packed satellites and rovers looking for possibilities to monitor deployment or scientific activities and take pictures/videos of the surrounding area. Crystalspace Monitoring Camera system has flight heritage and has proven itself as reliable monitoring camera.

## ***Features***

- Radiation hardened by design
- Flight heritage
- Nominal power consumption 0.5 W with peaks of 1 W during imaging
- SpaceWire; CAN; RS485; RS422; UART; USB; I2C or SPI controlled
- Able to take pictures with 70 deg/s rotation speed

## ***Available options***

- Baffle for the camera
- Different optics versions to monitor objects at distances from 1 cm to 100 m.
- Calibration of the camera
- Shutter
- ESA certified assembly
- DB9 connectors
- Isolated DC-DC conversion

## ***Available sensors***

- VGA 640 x 480 (~0.3 MP)
- 5 MP
- other custom ones from 1 to 10 MP

## ***Product Properties***

- Basic version
  - Dimensions: 82 x 88 x 39 mm
  - Mass: 270 g
- Temperature range  $-30\text{ }^{\circ}\text{C}$  to  $75\text{ }^{\circ}\text{C}$
- IPC-A-610 Class 3 assembly
- Assembled in clean room
- Optics assembled in class 5 clean room
- Vibration and shock tested
- Thermal vacuum tested

