

AC62KUSB – Color camera based on NanEye sensor

Technical description:

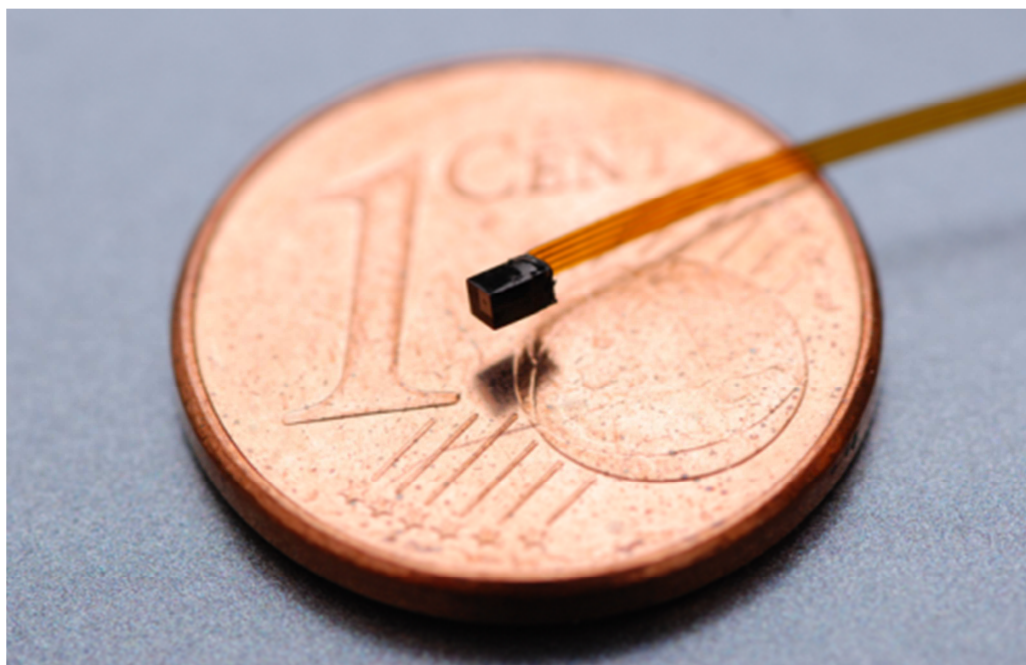
- Two inputs for sensor from Awaiba
- 62,5k pixels (250 x 250)
- Bit depth: 10-bit color or grayscale
- Control board dimensions: 47 x 22 x 10 mm
- Speed: up to 44 fps with one camera
- Interfaces:
 - USB 2.0
 - RS-232 with TTL logic level
- Power supply: 5V from USB host

Advantages:

- Camera is compatible with LabView from National Instruments
- Excellent image quality due to true 10-bit processing and image output
- Adjustable frame rates
- Non-volatile camera calibration (flat field + shading compensation)
- Pre-processing of the image content
- USB 2.0 interface for set up and software updates
- Built-in test patterns from debugging and verification
- Light control
- Inputs for two sensors

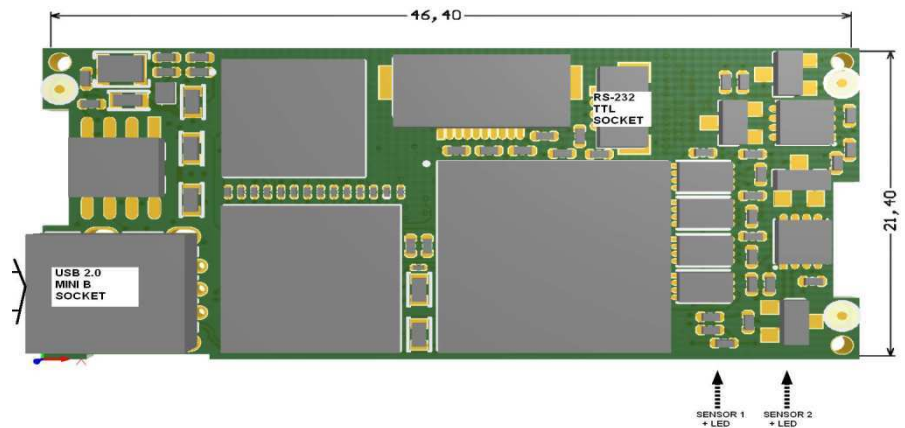
NanEye is a tiny camera module which consist of a CMOS image sensor. This sensor can be assembled with a special lens, fits in a diameter of only 1.5mm, works fully autonomous and can drive up to 2m cable without any external components at the distal end.

The camera optic covers a field of 1mm x 1mm with 62.5 KPixel (250 x 250 Pixel) at a 3um pitch and provides clear and sharp images.



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For an excellent image quality, the camera controls the lighting. On the sensor edges, there are four LED lights installed; the luminous intensity of each LED light is independently controlled.



To reduce the heating of this small electronic, the frame rate can be dropped down.

The power supply of the electronic is about 5V from USB host. Pictures, set ups and software updates are transferred via USB 2.0 to the host, where two independent working cameras can be connected.

For the communication with peripheral equipment, the camera is equipped with a RS232 output.

AC62KUSB camera is compatible with LabView from National Instruments.



BAP Image Systems (BAPis) is a dependable and reliable imaging products and solution provider with highly proven industry experience. BAPis develops and manufactures cameras based not only on high speed CCD and CMOS line sensors, but also on area CMOS/CCD sensors. BAPis cameras are used in the Machine Vision industry as well as in the film industry. Additionally, BAPis develops and produces image grabbers and processing boards based on DSP and FPGA technologies using its own algorithms. Image processing boards are matched with camera performance and, when combined, are able to reach the highest possible throughput.

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