

High-speed area camera for film, scientific, and industrial applications

Software features:

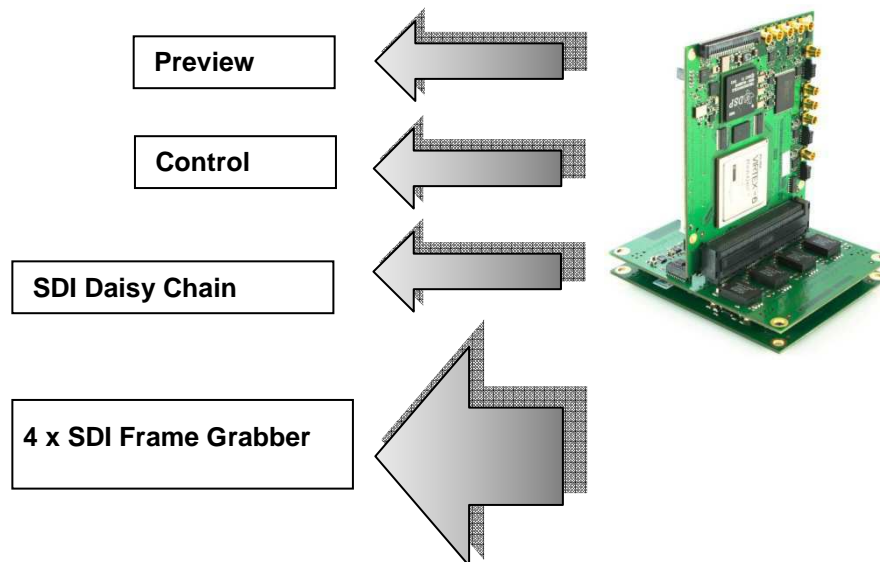
- 1920 x 1080, 10 or 12-bit color
- Up to 340 fps
- SDI outputs configurable resolution, speed, subsampling
- SDI outputs: RAW or processed
- Daisy chain connection over SDI possible
- Hot/Defect Pixel correction
- RAM buffer for image storage
- De-bayering function
- Camera control commands over RS-485



Hardware construction:

- Color area camera with interchangeable 2 or 12 Megapixel CMOS sensor module
- Up to 340 fps, 10-bit per pixel color output in full 2 Megapixel resolution
- Higher frame rates in R.I.O capture modes available
- 10 or 12-bit pixel depth modes
- Global shutter
- Video interfaces: 8 x 3G SDI output (configurable) +2 x 3G SDI input (configurable)
- Video output performance up to 8 x 3 Gbps (24 Gbps)
- Configurable outputs for SD-SDI, HD-SDI and 3G-SDI
- Daisy chain of multiple cameras with common triggering
- 8 GB onboard DDR-3 buffer memory for slow motion capture using low end frame grabbers
- RS-485 command link for master control and daisy chain pass-through control

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Camera description

The color digital matrix area camera is a flexible tool for motion image capture for industry, surveillance, security and science applications requiring a motion video stream or still picture capture in high quality color.

The camera design is both extremely compact and very flexible. There are interchangeable capture, processing and interface modules, which allow the camera to be adapted to meet various customer demands. The camera may deliver video stream via multiple SDI interfaces depending on the requirements and system design. Several image processing/transformation options may be done in the camera itself due to the powerful built-in FPGA chip.

With its highly adjustable shutter, flexible trigger control options, adjustable resolution and frame rate, the same unit may be used for different purposes.

The electronic camera can be installed in different housings and with different lenses. It is very easy to integrate in miscellaneous image processing environments.

The camera fulfills requirements of customers demanding 10 or 12-bit depth in motion or still picture over SDI, up to 24 Gbs.

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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