

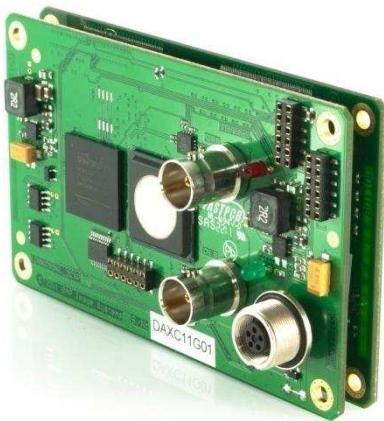
Digital Grayscale/Color Camera 100K Scanlines/s – LC8K100CXP

Technical description:

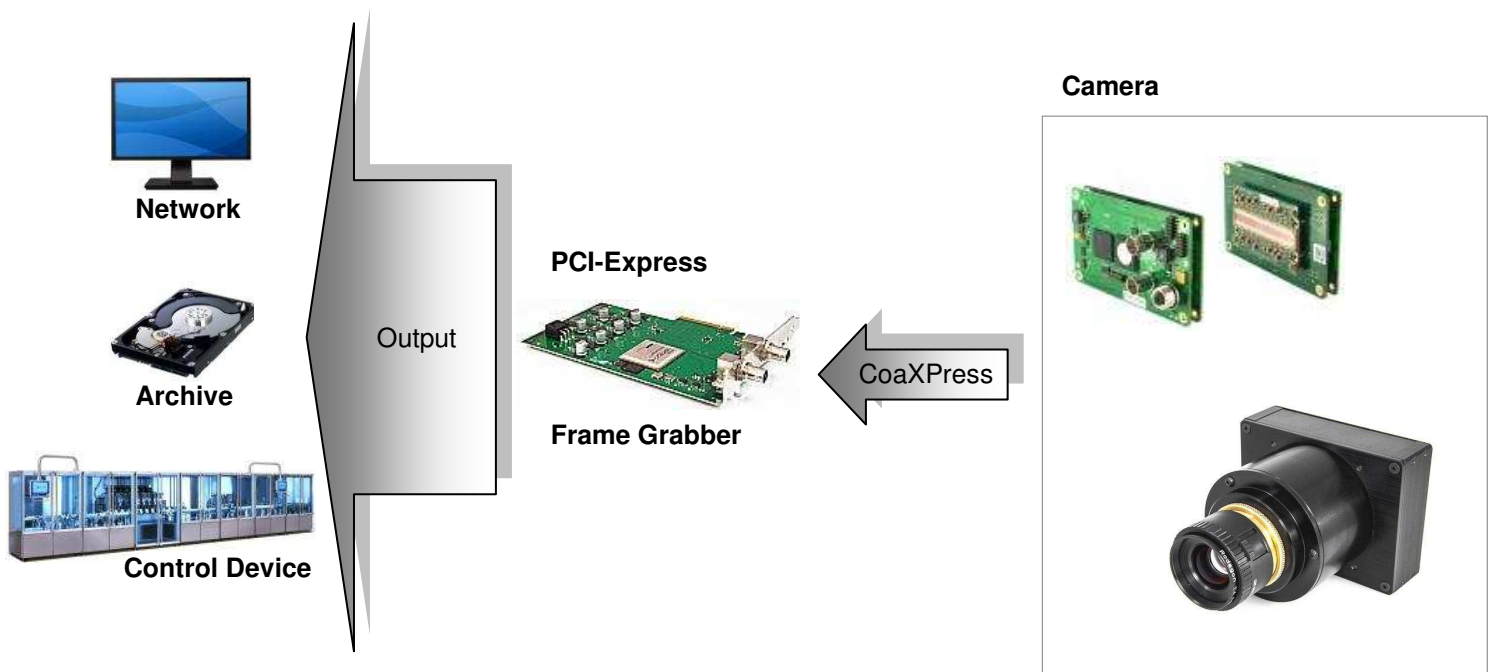
- RGB CMOS camera
- Bit depth:
8bit grayscale (10bit or 12bit as option)
8bit RGB (10bit or 12bit as option)
- Number of effective pixels: 2 x 8k Bayer matrix color
- Pixel size: 7x7 um square
- Speed: up to 80kHz scan line, depending on output interface
- Performance:
65 kHz scan lines, 8k, 16bit raw Bayer pixels, 2x CXP full
- Power supply: 12V @ 0.5A
- Based on AWAIBA Dragster sensors

Advantages:

- Extreme image quality due to true 8bit, 10bit or 12bit processing and image output
- Adjustable line length
- Selectable working frequency
- Horizontal and vertical image re-scaling (anti-aliased)
- Non-volatile camera calibration (flat field + shading compensation)
- Pre-processing of the image content
- Precise, curve based contrast and brightness enhancement through LUT
- Built-in test patterns for debugging and verification
- Additional functions included



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The electronics of the LC8K100CXP are capable of capturing a color image with a resolution up to 600dpi, DIN A3. The resolution depends on the optical part of the camera and light system and set up parameters of the camera.

The camera electronics can be included in the customer's optic system.

The camera is able to scan images with defined resolution depending on the active number of pixels. The quality of the image depends on the light, optics and paper transport system.

The camera works with our new frame grabber. Through the use of PCI-Express, the full bandwidth of the interface CoaXPress will be used. A major advantage of the hardware solution is that the new camera can be connected to any frame grabber with CoaXPress connection.

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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