

DRCMOS Family

Digital Grayscale/Color Line Camera 100K Scanlines/s – LC2K100CXP

Technical description:

- Resolution: 2048 px x 2 lines Bayer / 2048 px mono
- RGB CMOS camera
- Bit depth:
 - 8-bit grayscale (10-bit or 12-bit as option)
 - 8-bit color Bayer matrix (10-bit or 12-bit as option)
- Number of effective pixels: 2 x 2k Bayer matrix color / 1k grayscale
- Pixel size: 7x7 μm square
- Speed: up to 80 kHz scan line, depending upon output interface
- Performance:
 - 65 kHz scan lines, 4k, 16-bit raw Bayer pixels, 2x CXP full
- Power supply: 12 V @ 0.5 A
- Based on AWAIBA Dragster sensors

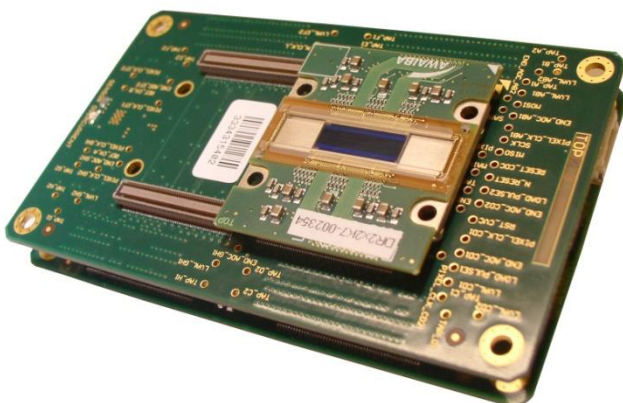


CoaPress

CXP-6

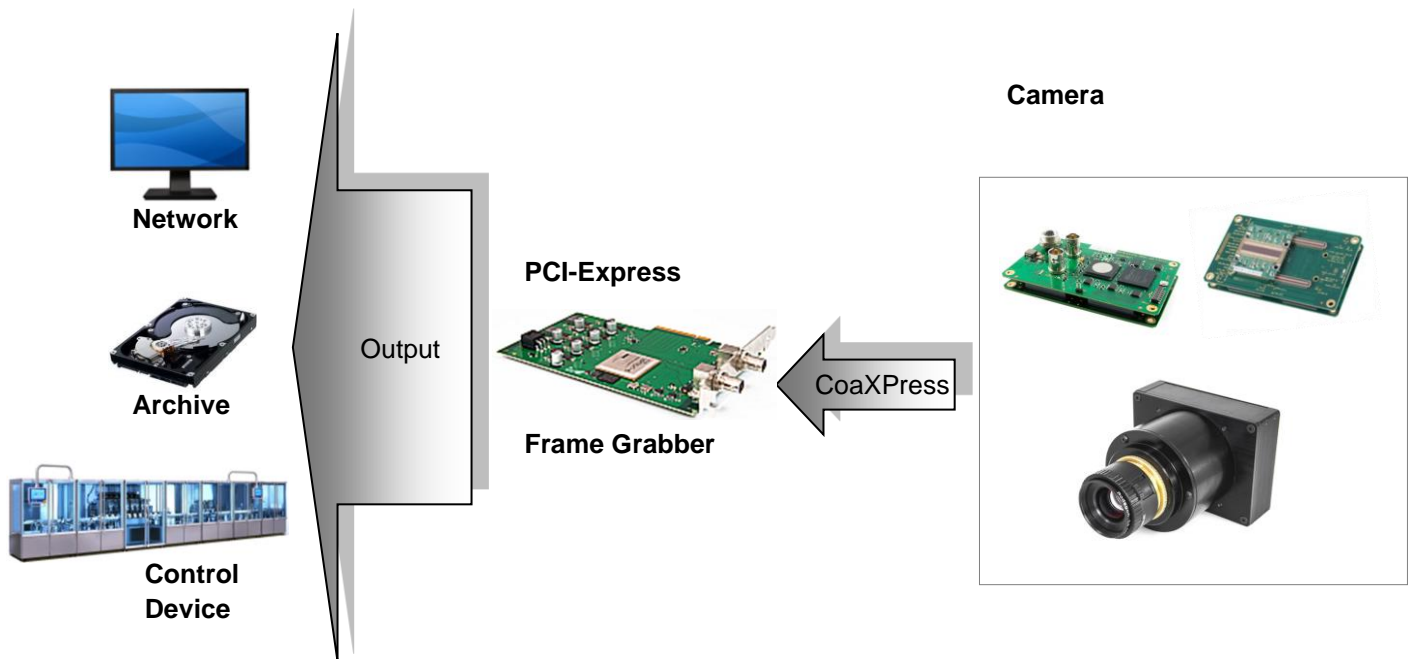
Advantages:

- Extremely good image quality due to true 8-bit, 10-bit or 12-bit 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 LC2K100CXP are capable of capturing a color image with a resolution up to 200dpi, DIN A4 with dark margins. 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 upon the active number of pixels. The quality of the image depends upon the light, optics and paper transport system.

The camera works with BAP 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 a 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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