

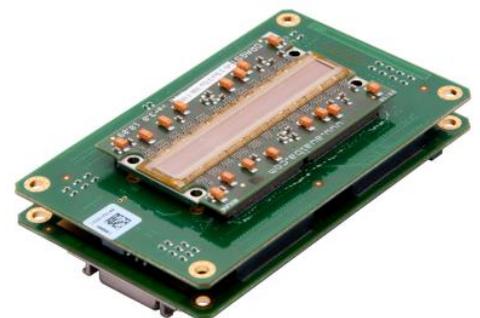
## Digital Grayscale/Color Line Camera 100K Scanlines/s – LC8K100CL

### Technical description:

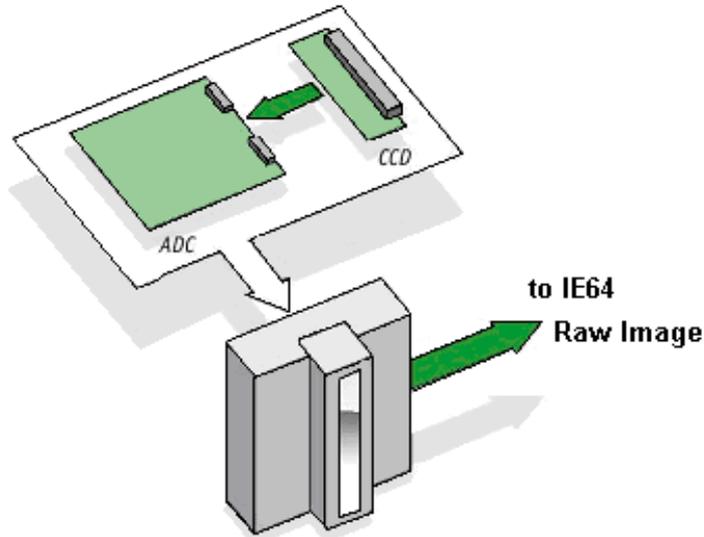
- Resolution: up to 600 dpi DIN A3
- Bit depth: 8, 10, or 12-bit gray-scale, or 24-bit color.
- Number of effective pixels: 8k grayscale or 2 x 8k Bayer matrix color.
- Pixel size: 7x7  $\mu\text{m}$  square
- Performance: 78,000 scan lines per second for 6,144 pixel line length and 8-bit depth. (Planned extension to 100,000 scan lines per second in 8,192 pixel line length 24-bit color).
- Speed: depending upon size and resolution (e.g.: 1,700 pages per minute DIN A4 300 dpi)
- Interfaces: Camera Link Full configuration (dual Camera Link socket) or custom dual Camera Link Full (four Camera Link sockets).
- Cable: Camera Link for image transfer and camera set up
- Power supply: single 12V @ 1A.

### Advantages:

- Extreme image quality due to true 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.
- RS-232 interface for set up and software updates.
- Built-in test patterns for debugging and verification.
- Other functions included



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The electronic of the LC8K100CL is capable of capturing the grayscale image with resolution up to 600 dpi, DIN A3. The resolution depends on the optical part of the camera and light system and set up parameters of the camera. The digital camera must 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 lighting, optics, and paper transport system.

The LC8K100CL works with the Image Engine (IE64 and IE64\_HS). The IE64 supports two cameras. All necessary image processing functions can be customized using the open interface. The IE64 has standard USB 2.0 interface to Host-PC.

**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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