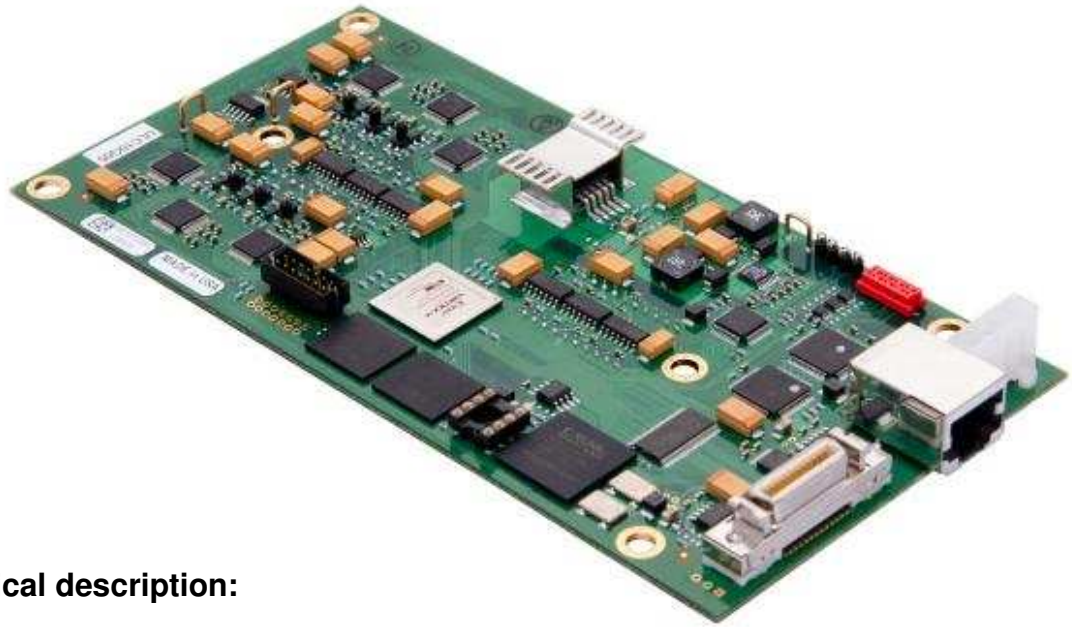
BAP Image Systems

Digital Color Camera Electronic 70MHz – SO-LC70



Technical description:

- Resolution: from 100dpi up to 600dpi for DIN A3 or 1200dpi for DIN A5.
- Speed: (depending on the line period)
  - DIN A4 landscape 200dpi – 128 IPS (670 DPM)
  - DIN A4 landscape 300dpi – 60 IPS (310 DPM)
  - DIN A4 portrait 200dpi – 160 IPS (640 DPM)
- Interfaces:
  - Native BAP G-Link (GL) serial interface for image data
  - Camera Link (CL) serial interface for third part frame grabbers (Mini D Ribbon socket).
  - bidirectional RS-232 serial communication for configuration command flow.
- Cable: UTP CAT7 (or CameraLink) for image transfer and camera set up.
- Mechanically compatible with BAP LC60M camera.
- Commands backwards compatible with the BAP LC60M camera.
- Power supply: single 12V or optional dual 12V / 5V for EMI sensitive environments.

Advantages:

- Three-line CCD technology with a true 24bit RGB or YUV output in the native resolution.
- pre-processing of the images
- Same device adjustable for various applications, resolutions and scan widths.
- adjustable active line length
- adjustable line period
- horizontal and vertical image re-scaling
- color components alignment and re-mapping (also fractional)
- LUT based contrast enhancement
- shading correction for different light sources and work conditions.
- RGB or YUV output image
- RS232 interface for set up
- and other functions included

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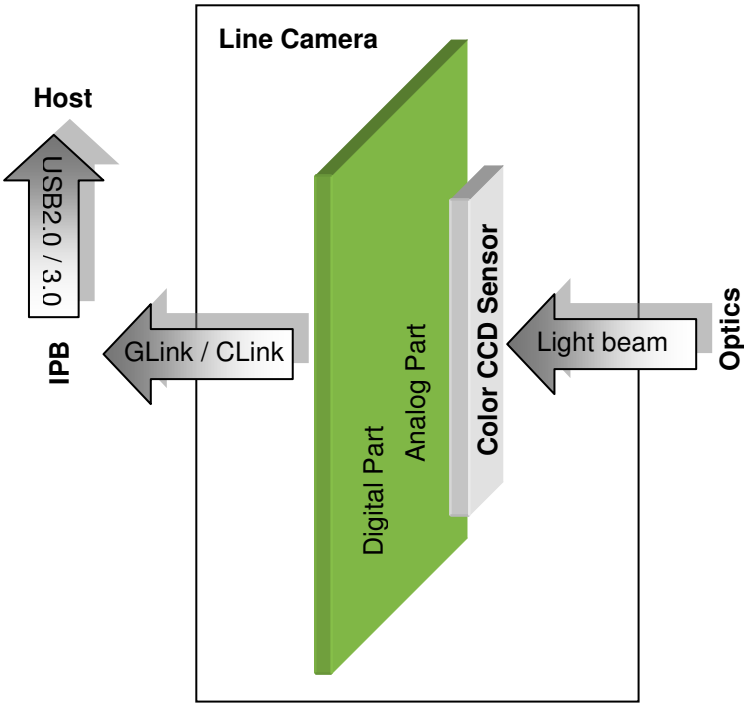
The electronics of the SO-LC70 camera is capable of capturing a true 24bit RGB image stream up to 7500 pixels in width without a Bayer filter mosaic. This allows a high quality 600dpi imaging of DIN A3 documents or 1200dpi for DIN A5 document size without any interpolation.

The unit resolution depends on the optical part of the camera, light system and set up parameters of the camera. The camera electronics has to be mounted in the customer's optic system.

The camera is able to scan images with a defined resolution depending on the active number of pixels. Image quality may be enhanced further using precise and adjustable color components alignment (re-mapping) capability, LUT-based contrast enhancement module. There are several processing options available already in the camera, e.g. horizontal and/or vertical antialiased re-scaling – allowing to get images in resolutions different from the native optical resolution.

The SO-LC70 works with BAP Image Engines (IE64_57 and IE64_HS). Both IE64 Image Processing Boards supports two camera inputs serviced in parallel at the same time. All necessary image processing functions can be customized using the open interface. Both image processing units have standard USB2.0 interface to Host-PC. The hardware version of IE64_57 can be equipped with other interfaces (USB3.0. Ethernet).

This solution can be implemented in different paper transport systems to scan images up to 670 ppm DIN A4 format with 200dpi.



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.

BAP Image Systems GmbH
Am Weichselgarten 7
91058 Erlangen, Germany
Tel: +49-9131-691540
Fax: +49-9131-691542

BAP Image Systems, LLC
1120 South Freeway, Ste 214
Fort Worth, TX 76104, USA
Tel: +1-817-878-2773
Fax: +1-817-878-2739

info@bapimaging.com
www.bapimaging.com