

Digital Color Line Camera Electronic 70MHz – SO-LC70



Technical description:

- Resolution: from 100 dpi up to 600 dpi for DIN A3 or 1200 dpi for DIN A5.
- Speed: (depending on the line period)
 - DIN A4 landscape 200 dpi – 128 IPS (670 DPM)
 - DIN A4 landscape 300 dpi – 60 IPS (310 DPM)
 - DIN A4 portrait 200 dpi – 160 IPS (640 DPM)
- Interfaces:
 - Native BAP G-Link (GL) serial interface for image data
 - Camera Link (CL) serial interface for third party 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 24-bit 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
- RS-232 interface for set up
- and other functions included

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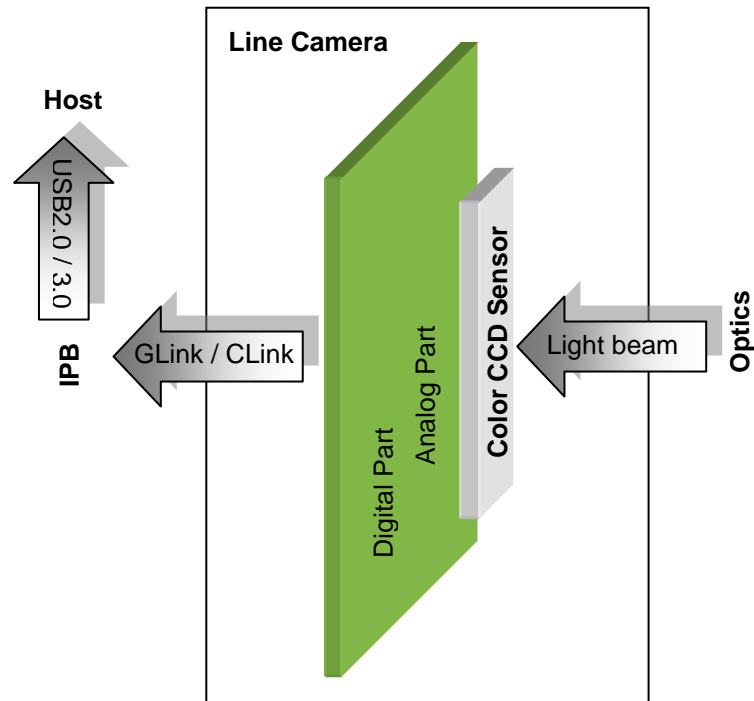
The electronics of the SO-LC70 camera are capable of capturing a true 24-bit RGB image stream up to 7,500 pixels in width without a Bayer filter mosaic. This allows a high quality 600 dpi imaging of DIN A3 documents or 1200 dpi for DIN A5 document size without any interpolation.

The units' resolution depends upon the optical part of the camera, lighting system, and set-up parameters of the camera. The camera electronics must be mounted in the customer's optic system.

The camera is able to scan images with a defined resolution depending upon 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 anti-aliased re-scaling – allowing the capture of 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 support two camera inputs serviced simultaneously in parallel. All necessary image processing functions can be customized using the open interface. Both image processing units have standard USB 2.0 interface to the Host-PC. The hardware version of IE64_57 can be equipped with other interfaces (USB 3.0, or Ethernet).

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



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
Etzstr. 37
84030 Ergolding, Germany
Tel: +49-871-43059922
Fax: +49-871-43059929

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