LC–S550 - BAPis 300 DPI Color Line Scanner

Features:

- Maximum scan width up to 550 mm (21.6 inches)
- Maximum scan speed up to 5 m/s (197 IPS)
- Maximum bit rate: 2 x 6.25 Gbps depending upon the readout.
- Pixel depth: 8 bits per color channel (extension to 10 bits and 12 bits possible)
- Configuration channel speed: 20.83 Mbps
- Camera power supplied via CXP interface – BNC cables
- External power supply: 20-24V (6A for integrated LED light).
- Power consumption for LED light up to: 150W/24V
- Offset correction at sensor's chip
- Non-volatile shading correction
- Time-based line synchronization or line synchronization based on an external trigger
- Wide range of electrical standards accepted (LVTTL, TTL, CMOS, 0-24V)
- Optional secondary external trigger for page valid synchronization, print marker masking, light control, etc.
- Two CXP lines (75 Ohm coax cables up to 25m)
- Housing dimensions: 641 x 202 x 151 mm (25.236 x 7.953 x 5.945 inches)
- Scanner weight: 10.5 kg (23.15 lb)
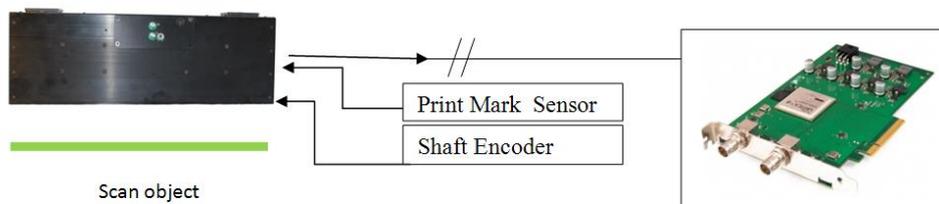
Description:

The BAPis LC-S550 300 DPI Color Line Scanner assembly compromises a LC8K100CXP electronic camera based on a DR-2x8K-7 Awaiba CMOS sensor, a BAPis special developed high-power LED lighting controlled through the camera software, two CoaXPress (CXP) interfaces, and multiple optical mirrors. All components are fully integrated inside a metal housing equipped with a see-through window

Keeping machine integration in mind, special effort was taken to keep the housing dimensions at minimum by applying a special and very precise optical mirror arrangement.
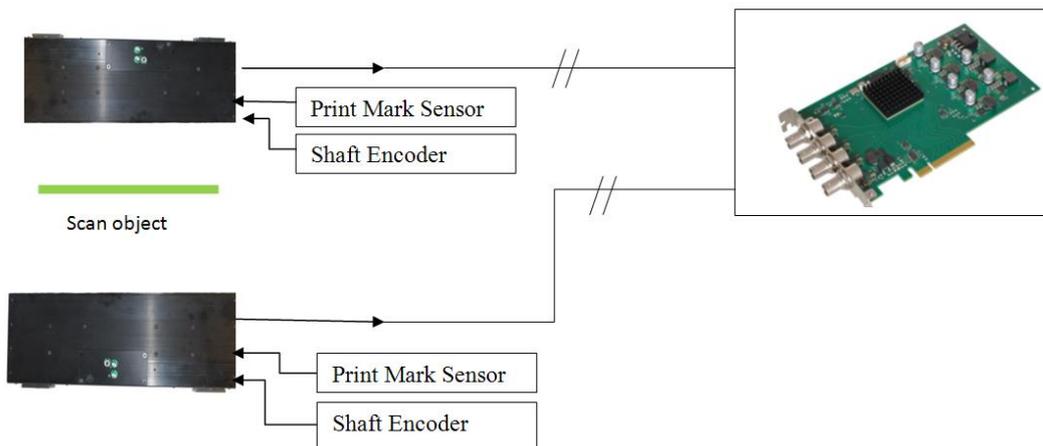
With a speed of up to 5.0 m/s in full-line readout mode, the fast data transmission is very well suited for quality control applications in today's high-speed digital print lines as well as in other industrial production lines where scan speed and image quality are essential requirements.

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Front side scanner with 2 x CXP

Print Mark Sensor

Shaft Encoder

Scan object

Front and back side scanner with 4 x CXP

Print Mark Sensor

Shaft Encoder

Scan object

Print Mark Sensor

Shaft Encoder

Currently, the LC8K100CXP camera using the BAPis CoaXPress frame grabber reaches a calculated maximum line rate of 61K scan lines/s at 8-bit RGB matrix pixel mode and full-line readout. Shorter line length allows up to 78kHz line rate at 8 bits per channel RGB Bayer matrix pixel mode (optionally 10 bits or 12 bits).

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 mision 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.