BAP Image Systems

BAPis LC – S550 300 DPI Color Line Scanner

Features:

- Maximum scan width up to 550mm (21.6 inch).
- Maximum scan speed up to 5 m/s (197 IPS).
- Maximum bit rate: 2 x 6.25 Gbps depending on the readout.
- Pixel depth: 8bit per color channel, (extension for 10 bit and 12bit 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 Ib)

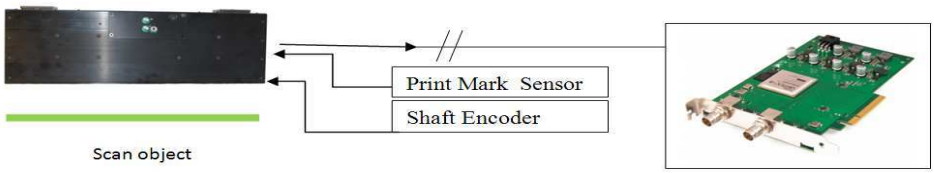
Description:

The BAPis LC-550 300 DPI Color Line Scanner assembly comprises a LC8K100CXP camera electronic 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 sight through window equipped metal housing.

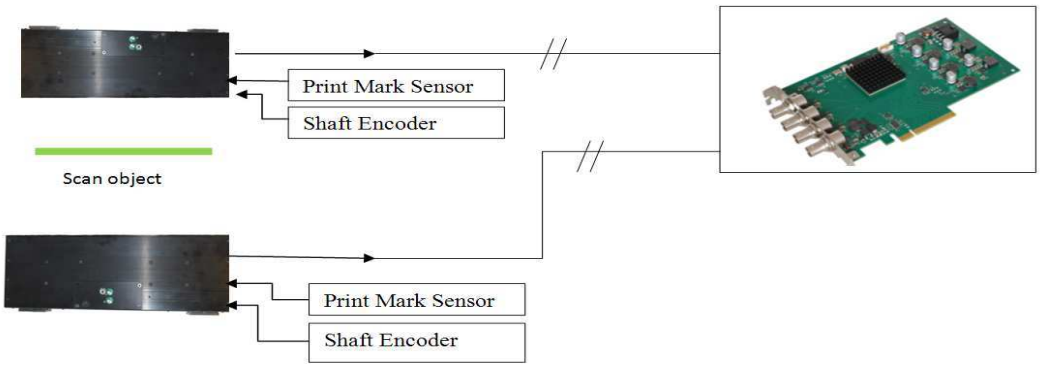
Keeping machine integration in mind, special effort was taken to keep the housing dimensions at minimum by applying a special and very precise optical mirror arrangement.

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 is essential required.

Front side scanner with 2 x CXP



Front and back side scanner with 4 x CXP



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

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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