BAP Image Systems

Color Digital Matrix Camera 30MHz – AC0M4M30CL

Technical description:

- Maximum pixel frequency: 30 MHz
- Maximum resolution: 782 x 582 @ 60 FPS
- Maximum frame rate: 250 FPS in center scan mode
- Shutter speed – adjustable in range from 500 ns to 60 seconds
- Output interface options:
  - Camera Link (CL)
  - TLK1501 G-Link (GL)
- Output video modes:
  - RGB – 24-bit
  - YUV 4:4:4, YUV 4:2:2 (24 or 16-bit)
  - Bayer mosaic (8, 10, or 12-bit)
- Lens mount: standard CS/C-mount
- Power connector: industrial screw-lock with external trigger
- Trigger modes:
  - auto trigger with adjustable FPS
  - external TTL trigger single-shot
  - external TTL trigger multi-shot/continuous-shot
- Various still, motion, and overlay color test patterns are available for maintenance and verification
- Bidirectional serial control for adjustment, control, and maintenance
- In-camera processing features contrast / gamma enhancement, de-Bayering, color space conversion, sub-sampling, and others)
- Power supply: single 12V / 2A
- Compatible with IE64_HS frame grabber / image processing board

BAP Image Systems

Color Digital Matrix Camera 30MHz – AC0M4M30CL

Camera description

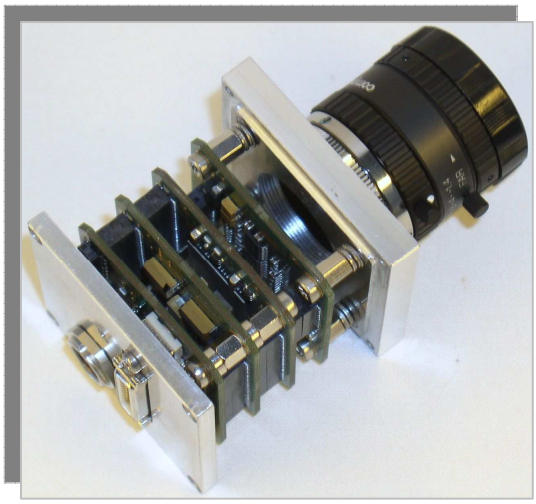
This color digital matrix area micro-camera is a flexible tool for motion image capture for industry, surveillance, security, and science applications requiring a motion video stream or still picture capture in high quality color.

The camera design is both extremely compact and very flexible. There are interchangeable capture, processing, and interface modules which allow the camera to be adapted to meet various customer demands. The camera may deliver video stream via Camera Link or TLK1501 (G-Link) interface depending on the requirements and system design. Several image processing and transformation options may be done in the camera with the powerful built-in FPGA chip.

With its highly adjustable shutter, flexible trigger control options, adjustable resolution and frame rate, the same unit may be used for different purposes.

A standard C/CS-lens mount, the ability to control zoom and focus in motorized lenses, electronic lens aperture control, plus a selection of industry standard output interfaces makes the camera very easy to integrate in miscellaneous image processing environments.

For customers demanding higher than 8-bit depth in the motion video or still picture, and not requiring color, BAP offers a similar design and performance grayscale 12-bit area matrix camera.



BAP Image Systems (BAPis) is a dependable and reliable imaging products and solutions 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