



allPIXA pro Color Line Scan Cameras

UP TO 156 KHZ LINE RATE CAMERALINK FULL

Chromasens allPIXA pro high-performance color line scan cameras feature the latest generation in image processing technology and electronics. This allows for an increase in line frequency to a previously unattainable 156 kHz, or approximately three times as fast as standard line scan cameras.

CAMERA OVERVIEW

- High sensitivity trilinear CCD sensors from 2048 x 3 pixels to 7300 x 3 pixels
- Scan rates up to 92 kHz for standard configurations (up to 156 kHz @ 1024 pixel sensor length in special OEM configurations)

COLOR QUALITY

- Continuous white balancing
- Large 10µm CCD pixels for best image quality
- Internal 14 bit A/D conversion per color channel
- Multiple Color Conversion Matrix (CCM) and offset supported
- Intelligent digital shutter
- Multiple sets of shading/off set correction
- Internal gamma correction

FUNCTIONALITY / INTELLIGENCE

- Ideal sensor alignment for absolute consistency
- 100% quality checked and calibrated to provide best quality and consistent camera performance

- Fully synchronized multi-channel LED flash control
- Internal keystone correction for multiple angle positioning of the camera
- Automatic insertion of machine and camera data inside the image (e.g. time stamp; encoder position; scanning speed, checksum)
- Sub-pixel accuracy for registration error compensation (patented)
- Precise multiple camera synchronization
- Comprehensive trigger options
- Test image generator
- Shading correction, several modes supported
- Adjustable Camera Link clock
- Programmable I/O (encoder, trigger, control)
- Area scan mode
- Grey image output (at individual color weights)



APPLICATIONS

- Print inspection
- Surface inspection
- Document scanning
- Measurement/Quality control
- Web inspection
- General machine vision
- Sorting processes

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ULTIMATE PRECISION IN COLOR

CUSTOMIZED CAMERAS AND IMAGING SYSTEMS (OEM)

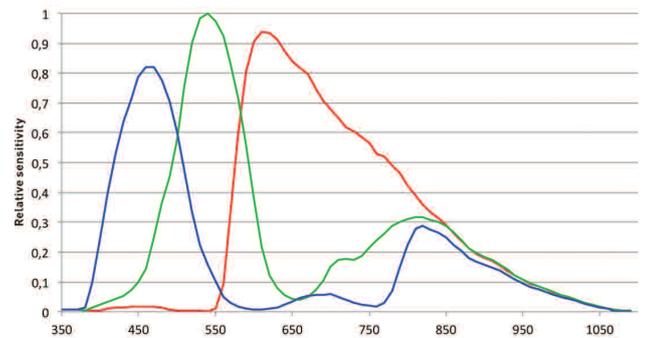
CAMERA SPECIFICATIONS

Sensor	Tri-linear CCD scan line
Number of Pixels	2048 x 3 pixels, 4096 x 3 pixels, 6000 x 3 pixels, 7300 x 3 pixels (3 x 1024 and other resolutions on request)
Active Pixel Size	10 μm * 10 μm
Max. Line Rate	2048 x 3 Pixel with up to 92,7 kHz 4096 x 3 Pixel with up to 50,8 kHz 6000 x 3 Pixel with up to 34,3 kHz 7300 x 3 Pixel with up to 29,7 kHz
Data Format	3 x 8/10 Bit color or 1 x 8/10/12 Bit mono mode with internal 3 x 14 Bit A/D converter
Video Output	Camera Link @ 85MHz Full (80/64Bit), Medium, Base
Trigger Mode	Free run / external trigger
Interfaces	Camera Link Full/Medium/Base Power supply (Hirose) External I/O (15pin DSub) RS232
Certifications	CE, FCC compliant, RoHS
Power Supply	24 V DC +/- 10%; < 19W
Operating Temperature	0°C to 60°C, 32°F to 140°F (housing temp.)
Dimensions	L=102 mm, H=100 mm, D=77 mm
Lens Mounts	Large variety of adapters: F-Mount, C-Mount, M39x1/26", M42x1, M72x0.75

In addition to its standard components Chromasens offers fully customized light, camera and scanner solutions. Some examples include:

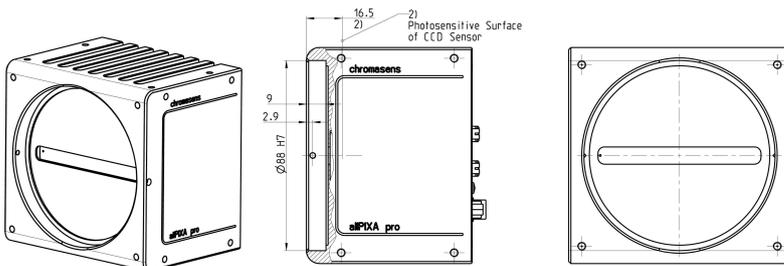
- > Special pre-processing functions or image information statistics inside the camera to save CPU resources
- > Customized housing design for cameras
- > Flexible I/O signals synchronize other system components, including lighting
- > Customized scanner modules including optics, light, sensors, image processing mechanics and software.

SPECTRAL SENSITIVITY

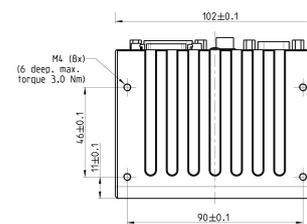


DIMENSIONS (in mm)

allPIXA pro 7.3K and 6000px



Top, back, side view (both models)



allPIXA pro 2K and 4K

