

# allPIXA pro

## Color Line Scan Cameras

Best color quality delivered by CCD sensor



**The allPIXA pro is the world's fastest, most powerful color line scan CCD camera for high-speed machine vision applications on the market today. It delivers line rates up to 98kHz in 2k models and a maximum of 156kHz in special OEM configurations, allowing for a maximum 300% increase in speed compared to conventional CCD line scan cameras. It also has improved responsivity, while retaining the best legacy features of the original Chromasens allPIXA in a new more compact footprint.**

### CAMERA OVERVIEW

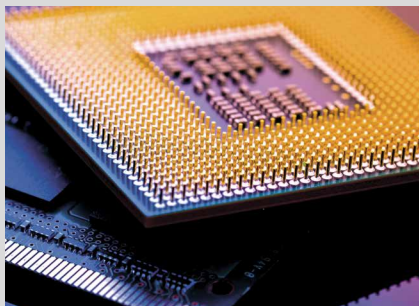
- ▶ High sensitivity trilinear CCD sensors
- ▶ Scan rates up to 92.7 kHz for standard configurations (up to 104.5 kHz in special OEM configurations)

### COLOR QUALITY

- ▶ Continuous white balancing
- ▶ Large 10  $\mu\text{m}$  CCD pixels for best image quality
- ▶ Internal 14 bit A/D conversion per color channel
- ▶ Multiple Color Conversion Matrix (CCM) and offset supported
- ▶ Internal gamma correction

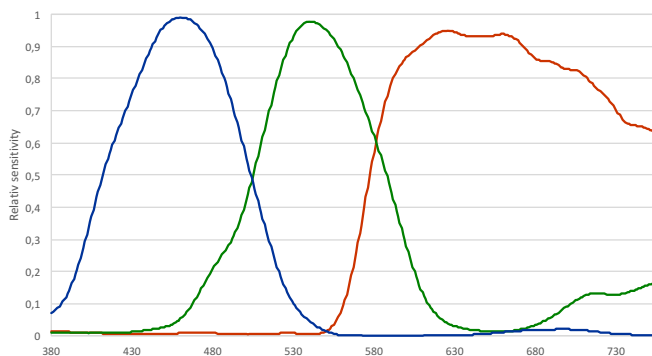
### FUNCTIONALITY / INTELLIGENCE

- ▶ 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
- ▶ Adjustable Camera Link clock
- ▶ Grey image output (at individual color weights)
- ▶ 100% quality checked and calibrated to provide best quality and consistent camera performance
- ▶ Graphical user interface for easy parameter setting, control and integration of the camera
- ▶ Rigorously tested with all popular frame grabbers
- ▶ Supports line and frame trigger similar to area cameras



- APPLICATIONS:**
- Measurement/Quality Control
  - Print
  - Surface
  - Document Scanning
  - Web
  - General Machine Vision
  - Sorting Processes

**SPECTRAL SENSITIVITY:**



**Customized Cameras and Imaging Systems:**  
 Chromasens offers fully customized light, camera and scanner solutions. All systems are 100% adaptable to customer requirements.

**SPECIFICATIONS:**

<b>Sensor</b>	Trilinear CCD line scan sensor (RGB)
<b>Number of pixels</b>	2048 x 3 pixels 4096 x 3 pixels 5120 x 3 pixels 6000 x 3 pixels 7300 x 3 pixels (other resolutions on request)
<b>Active pixel size</b>	10 µm x 10 µm
<b>Max. line rate</b>	2048 x 3 pixels up to 92.7 kHz 4096 x 3 pixels up to 50.8 kHz 5120 x 3 pixels up to 40.9 kHz 6000 x 3 pixels up to 34.3 kHz 7300 x 3 pixels up to 29.7 kHz
<b>Data format</b>	3 x 8/10 Bit color or 1 x 8/10/12 Bit mono mode with internal 3 x 14 Bit A/D converter
<b>Output</b>	Camera Link @ 85 MHz Full (80/64 Bit), Medium, Base
<b>Interfaces</b>	Camera Link Base/Medium/Full Power supply (Hirose) External I/O (15 pin D-Sub) RS232
<b>Power supply</b>	24 V DC +/- 10%; < 19W
<b>Trigger mode</b>	Free run / external trigger Line trigger Frame trigger
<b>Operating temperature</b>	0°C to 60°C, 32°F to 140°F (housing temp.)
<b>Dimensions</b>	L=102 mm, H=100 mm, D=77 mm
<b>Lens Mounts</b>	Large variety of adapters: F-Mount, C-Mount, M39x1/26", M42x1, M72x0.75
<b>Certifications</b>	CE, RoHS