

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

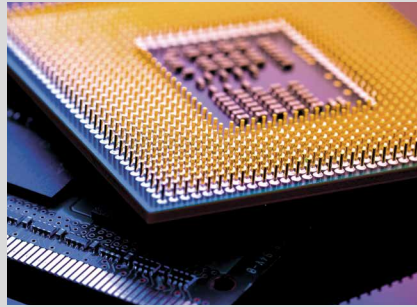
- ▶ High sensitivity tri-linear CCD sensors
- ▶ Scan rates up to 92 kHz for standard configurations (up to 104.5 kHz in special OEM configurations)

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
- ▶ Internal gamma correction

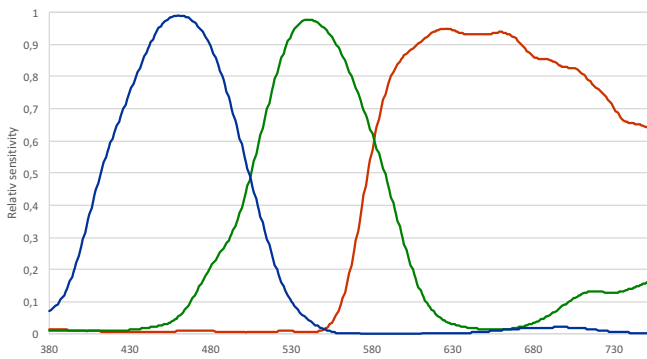
FUNCTIONALITY / INTELLIGENCE

- ▶ 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:



SPECIFICATIONS:

Sensor	Tri-linear CCD line scan sensor (RGB)
Number of pixels	2048 x 3 pixels 4096 x 3 pixels 5120 x 3 pixels 6000 x 3 pixels 7300 x 3 pixels (other resolutions on request)
Active pixel size	10 µm x 10 µm
Max. line rate	2048 x 3 pixels with up to 92.7 kHz 4096 x 3 pixels with up to 50.8 kHz 5120 x 3 pixels with up to 40.9 kHz 6000 x 3 pixels with up to 34.3 kHz 7300 x 3 pixels 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
Output	Camera Link @ 85 MHz Full (80/64 Bit), Medium, Base
Interfaces	Camera Link Base/Medium/Full Power supply (Hirose) External I/O (15 pin D-Sub) RS232
Certifications	CE, FCC compliant, RoHS
Power supply	24 V DC +/- 10%; < 19W
Trigger mode	Free run / external trigger Line trigger Frame trigger
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

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