

allPIXA pro Color Line Scan Cameras

Up to 156 kHz line rate



Chromasens developed the world's fastest tri-linear CCD color line scan camera combining the outstanding image quality of CCD sensors with extremely high line rates. The variety in line length up to 3 x 7300 px and a maximum speed of a previously unattainable 156 kHz provides a maximum in flexibility for virtually any application.

Camera overview

- ▶ High sensitivity tri-linear CCD sensors
- Scan rates up to 92 kHz for standard configurations (up to 156 kHz in special OEM configurations)

Color quality

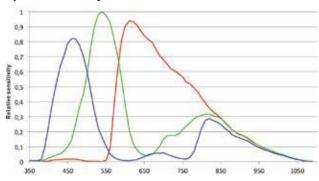
- ▶ Continuous white balancing
- ▶ Large 10µm CCD pixels for best image quality
- Internal 14 bit A/D conversion per color channel
- Multiple Color Conversion Matrix (CCM) and offset supported
- ▶ Internal gamma correction

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



Spectral sensitivity:



Customized Cameras and Imaging Systems (OEM)

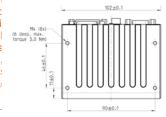
Chromasens offers fully customized light, camera and

scanner soluti

Special pre-p statistics insi · Customized

· Flexible I/O s components,

Customized: sensors, ima



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 x 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 @ 85 MHz Full (80/64 Bit), Medium, Base
Interfaces	Camera Link Full/Medium/Base Power supply (Hirose) External I/O (15 pin D-Sub) 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