chromasens
Imaging for Professionals

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chromaPIXA

Color output with high accuracy in all standard color spaces

The new Chromasens chromaPIXA line scan camera enables stable inline color measurement in a wide variety of extended color spaces, greatly simplifying downstream color processing. The chromaPIXA's output in LAB format allows for the determination of color differences in respect to the perception of the human eye. The chromaPIXA is calibrated by using the new, fast, and intuitive chromaCalc software and is compatible with all standard color charts.

Camera overview

- Highly-sensitive 7.3k CCD line scan sensor
- 7.3k line rates up to 29.7 kHz
- 4k line rates up to 50.8 kHz
- Color calibration allows internal conversion in sRGB, eciRGB, AdobeRGB, CIE-L*a*b* or CIE-XYZ in real time
- Calibration with ColorChecker and other color targets
- Stable white point is guaranteed by continuous white balancing
- Measurement for every single pixel without interpolation

Camera specifications:	chromaPIXA
Sensor	Tri-linear CCD color line scan sensor
Number of pixels	4096 x 3 pixels 5120 x 3 pixels 6000 x 3 pixels 7300 x 3 pixels
Active pixel size	10 µm x 10 µm
Color output spaces	sRGB, eciRGB, AdobeRGB, CIE-L*a*b*, CIE-XYZ
Max. line rate	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 with internal 3 x 14 Bit A/D converter
Output	Camera Link @ 85 MHz, Full (80/64 Bit), Medium, Base
Interfaces	Camera Link Full/Medium/Base 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
Software	chromaCalc software generate calibration data to calculate color output
Light source	Recommend Chromasens Corona II D50 for best performance
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 mount	F-Mount, C-Mount, M39x1/26", M42x1, M72x0.75