

truePIXA Multi-spectral Line Scan Camera

Precision in color measurement



Add a new dimension to multi-spectral imaging with the truePIXA camera. It offers a combination of high speed and spectral color measurement for each pixel to permit color measurement on two-dimensional objects, especially for print inspection. It captures the spectral footprint of images in full size and applies to on- and off-line imaging.

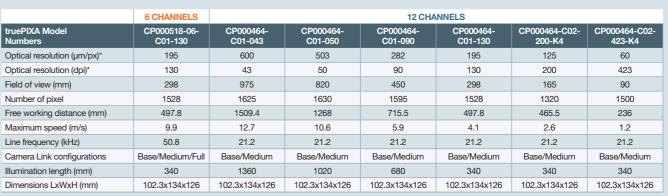
Unique Features of truePIXA Technology

- ▶ High speed line scan technology
- ▶ 12 image channels with distinct spectral content
- ▶ Allows measurements on RGB, CIE-L*a*b* and spectral reflectance factor data
- ▶ High stability and excellent repeatability
- ▶ Real time color measurement
- ▶ Chromasens Chromantis software
- User interface for image acquisition
- Spectral and color data visualization
- ▶ Basic data analysis
- ▶ Data import and export
- User friendly application programming interface (API)
- ▶ Combined with Chromasens Corona II D50 illumination, truePIXA cameras achieve the highest accuracy color measurement

Applications

- Spectral measurement
- Color mesaurement
- ▶ 100% quality control
- Sorting processes
- Optical density
- Surface inspection
- Defect inspection
- Web inspection





*optical resolution at working distance. Note: Please contact us for different resolutions and field of views.







Measurement

Textile

Coordinations

Specifications:	
Camera	Multi-spectral line scan camera with 6 or 12 image channels
Sensor	Multi-channel CCD line sensor
Active pixel size	10 μm x 10 μm
Spectral data range	380 nm – 730 nm
Measurement functionality	Spectral reflectance, CIE-L*a*b*, CIE-XYZ, CIE-L*c*h*
Measurement geometry	Adapted 45°/0° (illumination / observation angle)
Short-term repeatability	0.05 Δ76
White reference	Absolute/relative
Light source	LED based D50, refer to Corona II D50 for best performance
Interfaces Camera	Link Base/Medium/Full External I/O Serial (RS-232) Power supply (Hirose)
Power supply	24V DC +/- 10%; 16W
Trigger mode	Free run / external trigger Line trigger Frame trigger
Operating temperature	0°C to 60°C, 32°F to 140°F (housing temperature)
Software	Chromasens truePIXA-API (TpApi) Chromasens Chromantis for measuring, viewing and exporting spectral and multi-channel images (Windows x64)
Software output	Multi-channel-, spectral-, CIE-L*a*b*-, CIE-XYZ- and CIE-L*c*h*-images in 16 Bit TIFF and FITS format
Additional accessories	Cross polarization kit for camera and Chromasens line-lights
	and officiation in to light

