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’ab’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 measurement
- 100% quality control
- Sorting processes
- Optical density
- Surface inspection
- Defect inspection
- Web inspection

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’ab’b’, CIE-XYZ, CIE-L’*a’*b’*
- Measurement geometry: Adapted 45°/0° (illumination / observation angle)
- Short-term repeatability: 0.05% /75
- 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 (9Pins)
- 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 (Typi), 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’*a’*b’* images in 16 Bit TRF and FITS format
- Additional accessories: Cross polarization kit for camera and Chromasens line-fights
- Certifications: CE, FCC compliant, RoHS

Print

Measurement

Textile

Dimensions (in mm):

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