Overview

Low-cost, ease of use, flexibility.

Teledyne DALSA’s Spyder3 Color CL camera is a color line scan camera based on the successful Spyder3 dual line scan monochrome model. This camera provides a low cost solution with high color fidelity, flexibility, and ease of use and setup.

The Spyder3 Color CL has the red and blue color pixels alternating in one line and all the green pixels in the other line with no spacing between the two lines to minimize image artifacts. The camera offers several color output format options, including RGB, RG/BG, or G only to meet different imaging requirements.

The temperature range performance of the SC-34 models has increased from an operating temperature of 0 °C to 50 °C to an operating temperature of 0 °C to 65 °C.

The Spyder3 Color CL camera also incorporates advanced features such as flat field correction, automatic white balance, and the camera’s are pre-calibrated to light sources such as white LEDs for improved ease of use.

Specifications

Resolution: 2048 x 2 pixels / 4096 x 2 pixels
Data Rate: 80 megapixels per second
Max. Line/Frame Rate: 18 kHz (2k) / 9 kHz (4k)
Pixel Size: 14 µm x 14 µm (2k) / 10 µm x 10 µm (4k)
Data Format: 8 bit, 12 bit selectable
Output: Camera Link
Lens Mount: M42, C, F (2k) / M58, F (4k)
Responsivity: 8 DN (nJ/cm²) @ 0dB, 8 bit (2k)
4 DN (nJ/cm²) @ 0dB, 8 bit (4k)
Dynamic Range: 60 dB
Nominal Gain Range: 0–20 dB
Size: 72 mm x 60 mm x 60 mm, 2k camera / 60 mm x 72 mm x 60 mm, 4k camera
Mass: 300 g
Operating Temp: 0 °C to 65 °C
Power Supply: +12 V to +15 V
Power Dissipation: < 9 W
Regulatory Compliance: CE and RoHS
Control: MDR26 female Camera Link
Data: Shared with control
Power: Hirose 6 HR10 pin male
Example Part Number: SC-34-04k80-00-R
The Spyder3 Color CL camera is a cost-effective and easy-to-use bilinear color linescan camera.

Spyder3 CL SC-34
Bilinear Color CameraLink Linescan Camera

2K Spectral Responsivity

Wavelength [nm]
Responsivity [DN/(nj/cm²)]
Blue
Green
Red

4K Spectral Responsivity

Wavelength [nm]
Responsivity [DN/(nj/cm²)]
Blue
Green
Red

2k models

4k model

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