Trillium TR-34

Trillium's beam-splitting prism allows capture of three separate colors from a common optical axis.

The camera can be used with conventional lenses, or for the ultimate color fidelity, with a matched lens.

Performance. Precision. Programmability.

The Trillium line scan cameras use beam-splitting prisms, interference filters, and three separate image sensors to provide the best color images in the industry.

High sensitivity, three channels (Red, Green, and Blue) of LVDS output @ 25MHz, and superior color registration are just the start of this camera's power. Advanced features such as programmable pixel-by-pixel color correction and balancing, self-calibration, and on-camera diagnostic display make the Trillium the new color performance leader. With optional matched lens, the Trillium cameras provide the best color images in the industry.

Not only does the Trillium provide better images, its integrated signal processing compensates for lighting and lens variations, allowing easier, more economical system design with lower maintenance and lower lifetime cost.

Features

- 3-chip design with prism beamsplitter and interference filters for unrivalled color imaging precision
- Standard off-the-shelf lenses (35mm or medium format), or matched lens option for the ultimate image fidelity
- Pixel-by-pixel correction for FPN, PRNU, color balance, and variations in light source intensity and spectra
- Programmable pixel-to-pixel correction, autocalibration, integration, line rate, gain, pushbutton, and more
- 100% fill factor, exposure control, antiblooming

Specifications

Resolution	1024 / 2048
Pixel Size	14μm x 14μm
Aperture	14.4 / 28.7mm x 14μm
Lens Mount	Nikon F, Mamiya, or Canon FD
Max. Line/Frame Rate	21 / 11kHz
Data Rate	3x25MHz
Data Format	3x8-bit LVDS (RGB)
Responsivity	2.1 to 16.8DN/(nJ/cm^2)
Dynamic Range	Up to 520:1
Nominal Gain Range	-6 to +12dB
Size	89x89x219mm (no lens)
Mass	1.4kg (no lens)
Operating Temp	0-50 C
Power Supply	12 to 15V
Power Dissipation	15W
Regulatory Compliance	CE
Example Part Number	TR-34-01k25

Applications

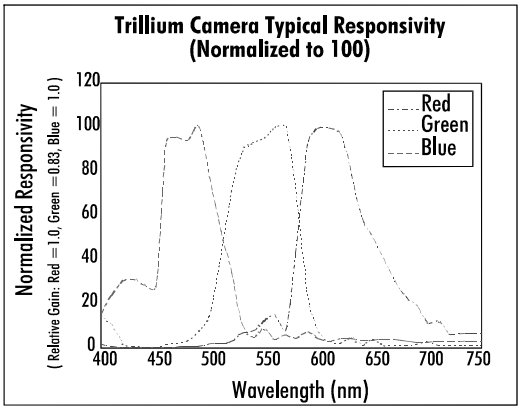
- Patterned color web inspection, such as printing press and textile manufacturing quality control
- High-performance color document scanning
- High resolution color machine vision
- Industrial inspection, including printed circuit boards and food

Sensor

The TR-34 uses DALSA's IL-P3 sensor. Contact DALSA for more information.

Connectors

Control	DB15F
Data	MDR68F
Power	Hirose HR10A 6-pin circular
Other	DB9F for serial link Hirose HR10A for Iris control



DALSA
technology with vision

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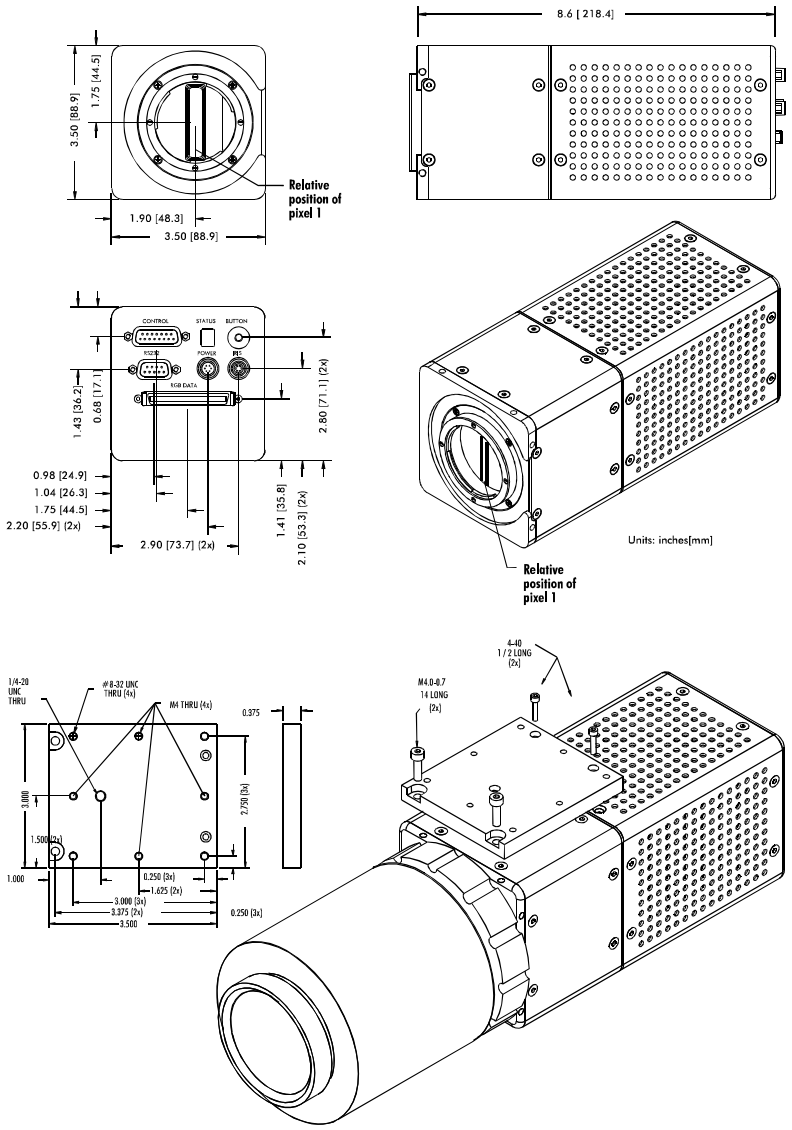
Mechanical Dimensions



For More Information

For more detailed information on this and other products, including pinouts, timing, and signal descriptions, see the full product datasheet. Contact your local rep or visit our website at http://vfm.dalsa.com/trillium.

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