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USB3.0 Line Scan Cameras

USB3.0 interface

FEATURES

Line Scan Camera with USB3.0 interface starting at 512 pixels up to 8160 pixels

- Line frequency up to 53.5 kHz
- Shading correction with permanently stored profiles
- Programmeable Lookup Table
- Window Function (ROI)
- Line Trigger, Frame Trigger, Threshold Trigger
- Advanced Synchronization Control
- Thresholding (all monochrome models)
- Integration Control for R, G, B (all color models)
- Decoupling of line frequency
- Extra signals for diagnosis
- Data cable length up to 100m using active optical extension cable

[DESCRIPTION](#)[ACCESSORIES](#)[CONFIGURATOR](#)

DESCRIPTION

Line scan cameras are semiconductor cameras used in many industrial environments. The single photosensitive line sensor contains – depending on type – up to 22800 picture elements (pixels). Light energy incident on the sensor is transformed into an electric signal for digitization within the camera. At 8-bit resolution, the A/D converter transmits the output voltage of each pixel into one of 256 brightness levels, at 12-bit resolution into 4096 brightness levels. Color line scan cameras provide three separate line signals for Red, Green and Blue with either 3 x 8-bit or 3 x 12-bit per pixel. The digitized output signal is transferred to a computer.

USB 3.0 line scan cameras are ideally suited for fast and high-resolution scanning. The plug & play capability predestine the USB 3.0 line scan cameras for use in mobile scanner applications, either controlled by a laptop or when the controlling PC is often changed. The locking screw of the connectors and an industrial housing design make them robust and suitable for industrial environments. By using standard components, these USB 3.0 camera systems are comparatively inexpensive and provide a beneficial price-performance ratio. An external grabber is

not required. Most of the USB 3.0 cameras are satisfied by the integral USB power. An external power supply is only necessary for some high performance cameras with higher power consumption. In combination with the Smart-Control-Box, the USB 3.0 cameras can be used as line sensors to provide fast and stand-alone measurement systems, e.g. for measuring object widths, rod diameter or edges as well as the thickness of transparent materials such as glass.

High performance cameras for industry and laborator

High value-for-money ratio

Securely attached connectors, robust casings

No external power supply for the most cameras

USB 3.0 SuperSpeed enables the use of sensors at their maximum line frequencies

Default cable length of up to 3 m

Active Optical Cable provides up to 100 m

Software for Windows 7, 8.1, 10 - x64, x86 or for Linux kernel 3.13+

Useable as sensor for the Smart-Control-Bo

Downwards compatible with USB 2.0