Falcon 4M60/4M30 Stop Action (Preliminary)

Area Scan Cameras



Key Features

- Two cameras: 4M60 and 4M30
- 4 megapixels
- 62 fps and 31 fps
- Global electronic shutter with exposure control
- Flat field correction (FFC)
- 1000x antiblooming
- Faster frame rates through vertical windowing

Programmability

- Adjustable integration time and frame rate
- Analog offset control
- Adjustable digital gain
- 8 or 10 bit selectable output
- Test pattern and camera diagnostics

Typical Applications

- Electronics manufacturing AOI, pick and place, and solder paste inspection
- Semiconductor wafer inspection
- Intelligent traffic systems
- Flat panel display inspection
- General machine vision

Overview

Stop Action technology, 62 fps and 4 megapixels of resolution.

Perfect for electronics manufacturing and semiconductor inspection, the Falcon 4M60 and 4M30 cameras use DALSA's patented CMOS sensor technology capable of 62 fps at full 4 megapixel resolution.

The 4M60 and 4M30 use a global shutter to eliminate the imaging issues often associated with full frame, frame transfer, or rolling shutter cameras, such as smearing or time displacement artifacts.

Fully programmable with a Base or Medium Camera Link interface, the cameras incorporate exposure control, gain and offset adjustment and 1000x antiblooming. Additionally, the camera's powerful flat field correction (FFC) creates individual gain and offset coefficients for each pixel, eliminating FPN, PRNU, and other non-uniformities.

With features like these, this camera should be your definitive choice for area based systems.

Specifications

Resolution Data Rate Max. Line/Frame Rate Pixel Size Data Format Output Lens Mount Responsivity **Dynamic Range** Nominal Gain Range Size Mass **Operating Temp** Power Supply Power Dissipation **Regulatory Compliance** Control Data Power Example Part Number

2352 (H) x 1728 (V) 4 x 80 MHz (4M60) / 2 x 80 MHz (4M30) 62 fps 7.4 µm 8. 10 bit Base, Medium Camera Link M42 x 1 12 DN/(nJ/cm²) @ 1x gain 56 dB Up to 16x 94 x 94 x 50 mm <550 g 0 °C to 50 °C 12 V to 15 V < 10 WCE MDR26 Camera Link Shared with Control Hirose 6 pin PT-41-04M60



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