# Falcon 1.4M100 XDR Area Scan Cameras



#### **Key Features**

- 1.4 megapixels, 100 fps
- High dynamic range
- · Global shutter and reset
- Exposure control
- · Concurrent integration and readout
- Faster frame rates through vertical windowing
- Power over Camera Link
- Mini-Camera Link
- 10 meter transmission @ 80 MHz

#### Programmability

- Flat field correction
- Adjustable timing modes
- · Adjustable gain and offset
- Test patterns and camera diagnostics

#### **Typical Applications**

- Electronics manufacturing
- Semiconductor inspection
- Print inspection-registration control
- Flat panel display inspection
- Medical imaging
- 2D/3D laser profiling
- General machine vision

#### Overview

# Fast, sharp, and with megapixel imaging. 100 frames per second and 1.4 megapixels of resolution delivered within a compact camera body.

Our latest 1.4 megapixel camera delivers 100 fps at full resolution in a compact body ideal for applications in electronics manufacturing and semiconductor inspection. The camera uses Teledyne DALSA's patented CMOS sensor technology to deliver global shuttering, global reset, and concurrent integration and readout. The images produced are crisp and clear, avoiding image artifacts associated with rolling shutter cameras.

Fully programmable, via base mini-Camera Link, the camera incorporates exposure control, gain and offset adjustment, and flat-field correction. Ease of use is enhanced through simple camera control and timing, and power over Camera Link (PoCL) eliminates the need for a separate power cable and simplifies cable and system integration. Delivered in a robust, compact body, this camera should be your definitive choice for area-based systems. The XDR model of the Falcon camera maximizes the available dynamic range. This results in a camera that best discerns subtle differences in images, allowing for greater defect detection than ever before.

### Specifications

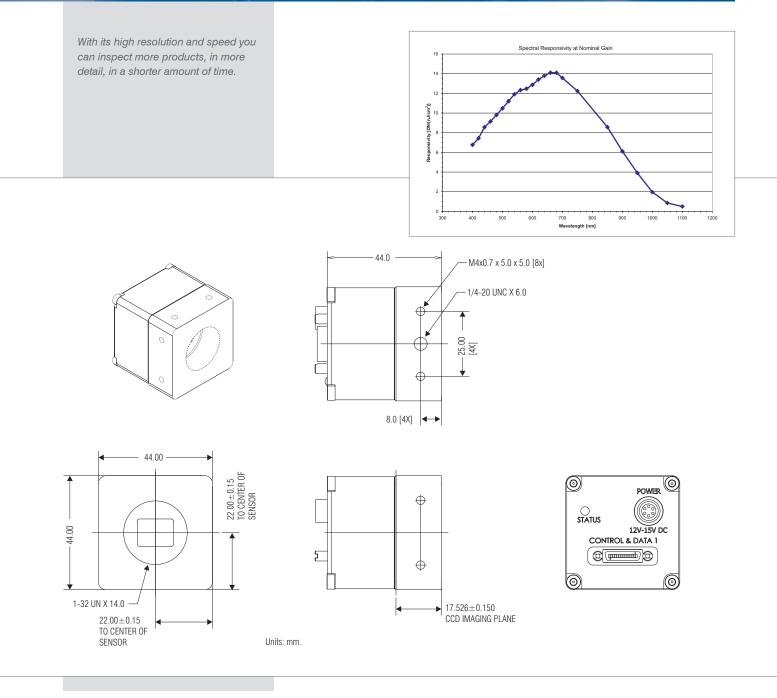
Resolution Data Rate Max. Line/Frame Rate Pixel Size Data Format Output Lens Mount Responsivity Dynamic Range Nominal Gain Range Size Mass Operating Temp Power Supply Power Dissipation **Regulatory Compliance** Control Data Power Example Part Number

1400 pixels (H) x 1024 pixels (V) 2 x 80 MHz 100 fps 7.4 μm x 7.4 μm 8 bit or 10 bit selectable Base mini-Camera Link C-mount 12 DN/(nJ/cm<sup>2</sup>) 57 dB 4x digital 44 mm x 44 mm x 44 mm < 175 g 0 °C to 50 °C 12 V to 15 V DC < 3 W CE and RoHS SDR26 mini-Camera Link Shared with Control Hirose 6 pin circular, or PoCL (shared with control) FA-20-01M1H





# Falcon 1.4M100 XDR Area Scan Cameras



## www.teledynedalsa.com

Americas	Europe	Asia Pacific
Boston, USA	Munich, Germany	Tokyo, Japan
Tel: +1 978-670-2000	Tel: +49 8142-46770	+81 3-5960-6353
sales.americas@teledynedalsa.com	sales.europe@teledynedalsa.com	sales.asia@teledynedalsa.com

Teledyne DALSA is an international leader in digital imaging and semiconductors and has its corporate offices in Waterloo, Ontario, Canada.

All trademarks are registered by their respective companies. Teledyne DALSA reserves the right to make changes at any time without notice. @ Teledyne DALSA 2011. 03-070-20004-03

