### Pantera 11M4 Area Scan Cameras



#### **Key Features**

- 4008 x 2672 resolution, fast data rate
- Antiblooming
- High dynamic range
- Excellent tap matching
- Easy attachment of mechanical shutters
- Model with advanced cosmetic performance available

#### Programmability

- Small step gain control for excellent tap matching
- 1 or 2 output taps
- Exposure mode and timing control
- 8, 10, 12, or 14 bit output
- 1 x 1, 2 x 2, or 4 x 4 binning

#### **Typical Applications**

- Film scanning
- Archiving
- Aerial reconnaissance
- Microscopy
- Flat panel inspection
- X-rays: medical and nondestructive test
- PCB inspection with strobed lighting

#### **Overview**

# With 14 bit output and 11 megapixel resolution, this camera can discern tiny differences in large areas.

The Pantera TF 11M4 is an advanced, full frame camera that offers a unique combination of 11 megapixel resolution, fast frame rate, large bit depth, and a Camera Link<sup>™</sup> interface. The camera's data rate of up to 2 x 36 MHz provides incredible throughput while its 4008 x 2672 pixel resolution enables you to reduce the number of cameras required for large area surface scanning. With up to 14 bits of output, this camera is capable of discerning the tiniest differences between gray scales. The DALSA-made sensor used in the camera has extremely low noise eliminating the need for voluminous and costly cooling mechanisms.

The Pantera TF 11M4 is housed in a single, robust enclosure ideal for hostile industrial environments and is designed for easy attachment of external devices such as mechanical shutters. The M72 adapter on the front plate allows for wide selection of off the shelf and custom lenses.

#### **Specifications**

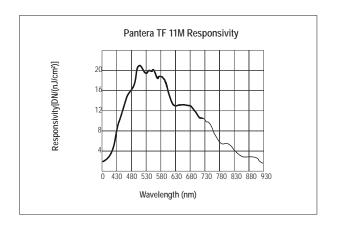
Resolution Data Rate Max. Line/Frame Rate Pixel Size Data Format Output Lens Mount Responsivity Dynamic Range Nominal Gain Range Size Mass **Operating Temp** Power Supply Power Dissipation **Regulatory Compliance** Control Data Power **Example Part Number** 

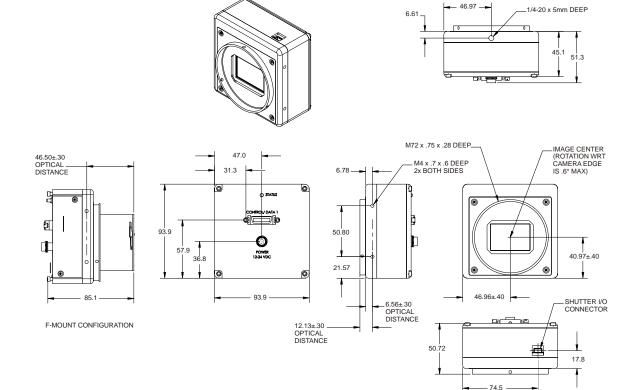
4008 x 2672 2 x 36 MHz 4.4 fps 9*µ*m 8, 10, 12, 14 bit **Base Camera Link** M72 x 0.75, F mount 20 DN/(nJ/cm<sup>2</sup>) @ 530 nm 66 dB 1x to 4x 94 mm x 94 mm x 45 mm 680 q 0 °C to 40 °C 12 V to 24 V <15 W CF MDR26 Camera Link Shared with Control Hirose HR10 6 pin PT-20-11M04



## Pantera 11M4 Area Scan Cameras

Get the big picture without losing the details. With 14 bit output and 11 megapixel resolution, this camera can discern tiny differences in large areas.







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