

# Pantera TF 6M8

## Area Scan Cameras



### Key Features

- 3072 x 2048 resolution
- 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
- One or two 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 non-destructive test
- PCB inspection with strobed lighting

### Overview

With 14 bit output and 6 megapixel resolution, this camera can discern tiny differences in large areas.

The Pantera TF 6M8 is an advanced, full frame camera that offers a unique combination of 6 megapixel resolution, fast frame rate, large bit depth, and a Camera Link™ interface. The camera's data rate of up to 2 x 36 MHz provides incredible throughput while its 3072 x 2048 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 6M8 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.

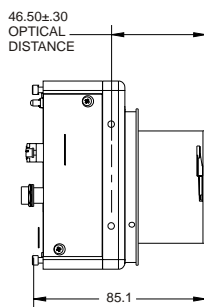
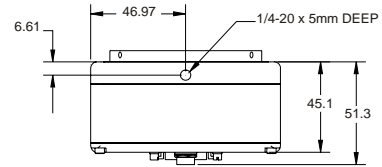
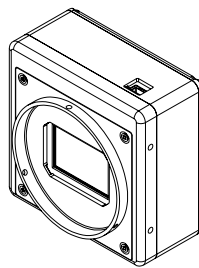
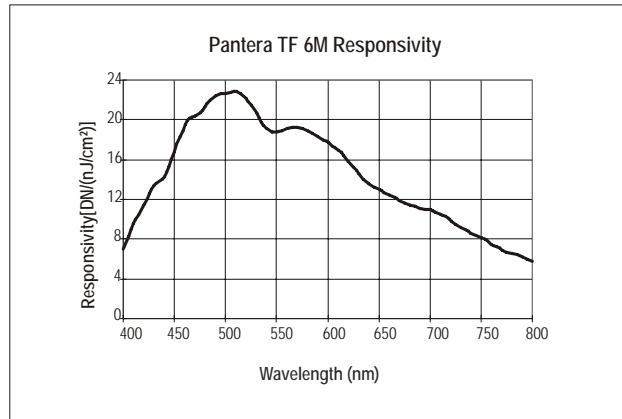
### Specifications

|                       |                                      |
|-----------------------|--------------------------------------|
| Resolution            | 3072 x 2048                          |
| Data Rate             | 2 x 36 MHz                           |
| Max. Line/Frame Rate  | 7.5 fps                              |
| Pixel Size            | 12 $\mu$ m                           |
| Data Format           | 8, 10, 12, 14 bit                    |
| Output                | Base Camera Link                     |
| Lens Mount            | M72 x 0.75, F mount                  |
| Responsivity          | 20 DN/(nJ/cm <sup>2</sup> ) @ 530 nm |
| Dynamic Range         | 66 dB                                |
| Nominal Gain Range    | 1x to 4x                             |
| Size                  | 94 mm x 94 mm x 45 mm                |
| Mass                  | 680 g                                |
| Operating Temp        | 0 °C to 40 °C                        |
| Power Supply          | 12 V to 24 V                         |
| Power Dissipation     | <15 W                                |
| Regulatory Compliance | CE                                   |
| Control               | MDR26 Camera Link                    |
| Data                  | Shared with Control                  |
| Power                 | Hirose HR10 6 pin                    |
| Example Part Number   | PT-20-06M08                          |

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## Area Scan Cameras

Get the big picture without losing the details. With 14 bit output and 6 megapixel resolution, this camera can discern tiny differences in large areas.



F-MOUNT CONFIGURATION

