Pantera TF 1M60

Area Scan Cameras



Key Features

- 12 bit digitization
- Exposure control and antiblooming
- 100% fill factor
- High sensitivity with low dark current
- Base Camera Link

Programmability

- Small step gain control in increments of 1 DN for excellent tap matching
- Selectable one or two output tans
- Exposure mode and timing
- Selectable 8, 10, or 12 bit output
- Selectable binning
- Video mode and test pattern selection

Typical Applications

- X-rays: medical and nondestructive test
- Medical imaging
- Microscopy
- Metrology

Overview

60 frames per second of full 1k by 1k resolution and 12 bit digitization gives you the speed to succeed in the most demanding applications.

The 1M60 Pantera camera provides high sensitivity 12 bit images with 1k x 1k spatial resolution at up to 60 frames per second. The 1M60 is a frame transfer CCD camera using a TrueFrame $^{\text{TM}}$ progressive scan CCD to simultaneously achieve outstanding resolution and gray scale characteristics. A 12 μ m square pixel format and 100% fill factor provide superior image quality even at low light levels.

12 bit performance provides up to 4096 distinct gray levels—perfect for detail oriented applications with large interscene light variations. The low noise, digitized video signal also makes the camera an excellent choice where low contrast images must be captured in challenging applications.

Specifications

Resolution 1024 x 1024
Data Rate 2 x 40 MHz
Max. Line/Frame Rate 60 fps
Pixel Size 12 μ m
Data Format 8, 10, 12 bit
Output Base Camera Link
Lens Mount M42 x 1, F mount

Responsivity 40 DN/(nJ/cm²) @ 540 nm,1x gain

Dynamic Range 66 dB Nominal Gain Range 1x to 4x

Size 94 mm x 94 mm x 45 mm

Mass 850 g
Operating Temp 0 °C to 40 °C
Power Supply 12 V to 15 V
Power Dissipation <17 W
Regulatory Compliance CE

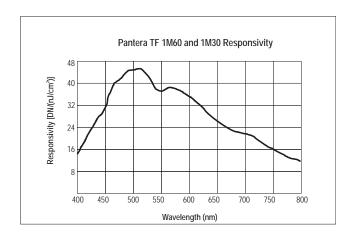
Control MDR26 Camera Link
Data Shared with Control
Power Hirose HR10 6 pin
Example Part Number DS-21-01M60



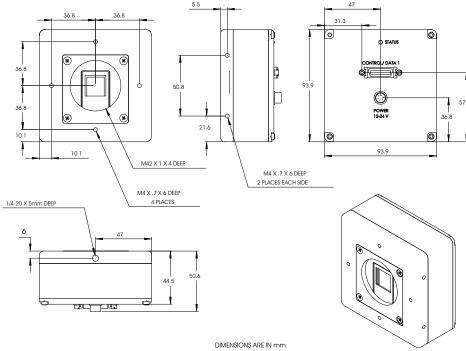
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This progressive scan camera
uses a TrueFrame™ Frame
Transfer architecture—it has an
on-chip shielded storage region
and requires no mechanical
shutter.







+/- .3 TOLERANCE ON ALL DIMENSIONSPUNLESS OTHERWISE INDICATED

