

Area Scan Cameras

Pantera TF 1M60 (Prelim.)

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

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 (fps). The 1M60 is a frame transfer CCD camera using a TrueFrame™ progressive scan CCD to simultaneously achieve outstanding resolution and gray scale characteristics. A square pixel format and 100% fill factor provide superior, quantifiable 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.



Features

- 12 bit digitization
- TrueFrame™ CCD image sensor
- Exposure control and antiblooming
- 100% fill factor
- High sensitivity with low dark current

Specifications

Resolution	1024 x 1024
Pixel Size	12μm x 12μm
Aperture	12.3mm x 12.3mm
Lens Mount	M42x1, C or F mount accessories
Max. Line/Frame Rate	up to 60fps
Data Rate	2x40MHz
Data Format	2x 8/10/12-bit Camera Link
Responsivity	24DN/(nJ/cm²) @540nm
Dynamic Range	66dB
Nominal Gain Range	1x to 4x
Size	94x94x45mm
Mass	TBD
Operating Temp	0-40°C
Power Supply	12 to 15V
Power Dissipation	<17W
Regulatory Compliance	CE
Example Part Number	DS-21-01M60

Applications

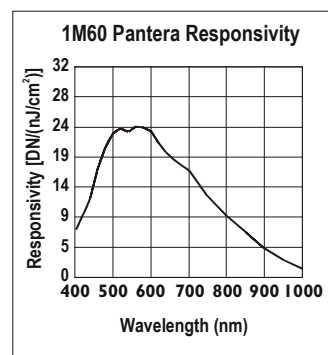
- Automated x-ray inspection (AXI)
- Non-destructive test
- Medical imaging
- Microscopy

Sensor

The 1M60 (Prelim.) uses a high-performance frame transfer CCD from our world-rekknowned sensor group in Eindhoven.

Connectors

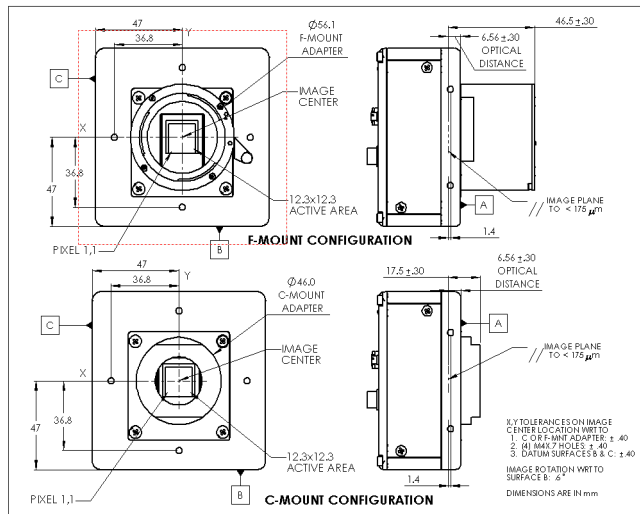
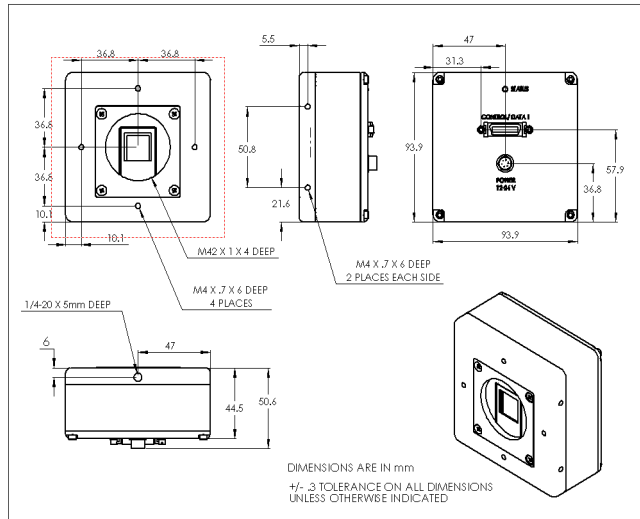
Control	MDR26 Camera Link
Data	MDR26 Camera Link
Power	Hirose HR10 6-pin
Other	none



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24-Feb-04
03-70-00161-04
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Mechanical Dimensions



For More Information

For more detailed information on this and other products, including pinouts, timing, and signal descriptions, see the user manual. Contact your local rep or visit our website at <http://vfm.dalsa.com/products>.

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24-Feb-04
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