

DALSTAR 1M60

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

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

The DALSTAR 1M60 digital 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 progressive scan CCD to simultaneously achieve outstanding resolution and gray scale characteristics. A square pixel format and high fill factor provide superior, quantifiable image quality even at low light levels.

True 12 bit performance provides up to 4096 distinct gray levels—perfect for 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. Complete interface cable sets and Windows 95/98/NT control software make system set up and integration both simple and quick.



Features

- 60fps with true 12-bit digitization
- High sensitivity with low dark current
- Progressive scan readout
- On-chip shutter
- Binning
- Programmable operation (via RS232)
- 70% fill factor

Specifications

Resolution	1024 x 1024
Pixel Size	14 μ m x 14 μ m
Aperture	14.3mm x 14.3mm
Lens Mount	C or F-mount
Max. Line/Frame Rate	60fps
Data Rate	4x20MHz
Data Format	4x12-bit RS422 or LVDS
Responsivity	23DN/(nJ/cm ²) @540nm
Dynamic Range	3200:1
Nominal Gain Range	1 or 4x
Size	94x94x110mm
Mass	0.85kg
Operating Temp	10-45 C
Power Supply	+5V, -5V, +15V
Power Dissipation	<17W
Regulatory Compliance	
Example Part Number	DS-41-01M60

Applications

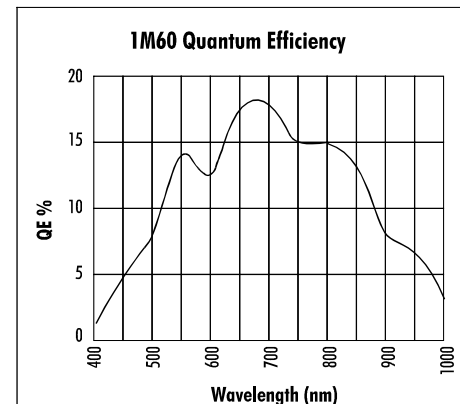
- High-speed product inspection
- High-resolution real-time imaging
- Microscopy
- Crystallography

Sensor

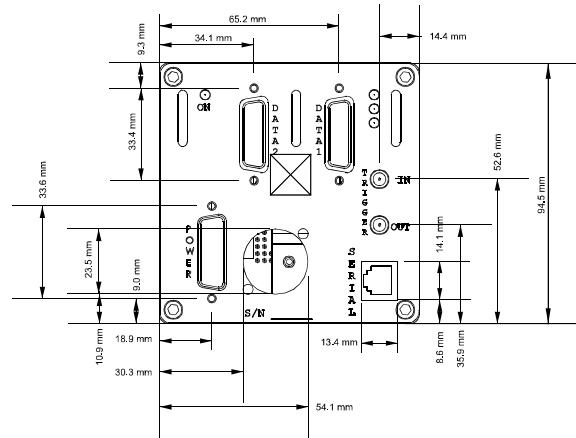
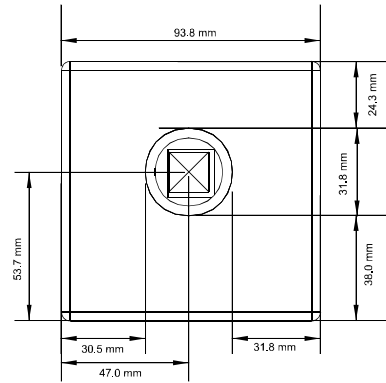
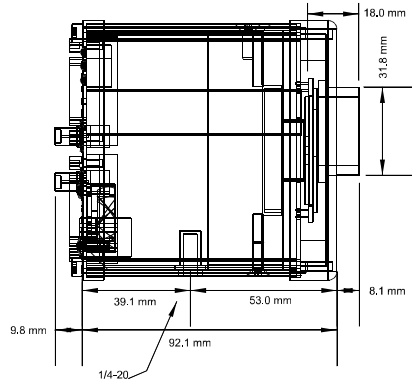
The 1M60 uses a high-performance frame transfer CCD.

Connectors

Control	SMA coax for sync
Data	2xMDR60
Power	DB15M
Other	RJ-11F for serial link



Mechanical Dimensions



For More Information

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

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