

DALSTAR 1M30

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

Finally, a scientific grade camera which combines high resolution, high speed and true 12 bit performance.

The DALSTAR 1M30 digital camera provides high-sensitivity 12-bit images with 1k x 1k spatial resolution at up to 30 frames per second (fps). The 1M30 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.

The 1M30 is an outstanding performer in medical applications. 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

- 30fps single output, true 12-bit digitization
- High sensitivity with low dark current
- Progressive scan readout
- On-chip shutter
- Binning up to 8x8
- Programmable operation (via RS232)
- 100% fill factor

Specifications

Resolution	1024 x 1024
Pixel Size	12µm x 12µm
Aperture	12.3mm x 12.3mm
Lens Mount	C or F-mount
Max. Line/Frame Rate	30fps
Data Rate	40MHz
Data Format	12-bit LVDS
Responsivity	24DN/(nJ/cm²) @540nm
Dynamic Range	3200:1
Nominal Gain Range	1-10x
Size	92x92x144mm
Mass	0.85kg
Operating Temp	10-45 C
Power Supply	+5V, -5V, +15V
Power Dissipation	11W
Regulatory Compliance	
Example Part Number	DS-11-01M30

Applications

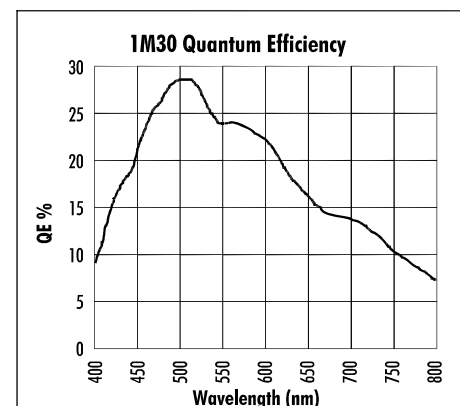
- Medical imaging
- Radiology/fluoroscopy
- Automated pathology

Sensor

The 1M30 uses a high-performance frame transfer CCD.

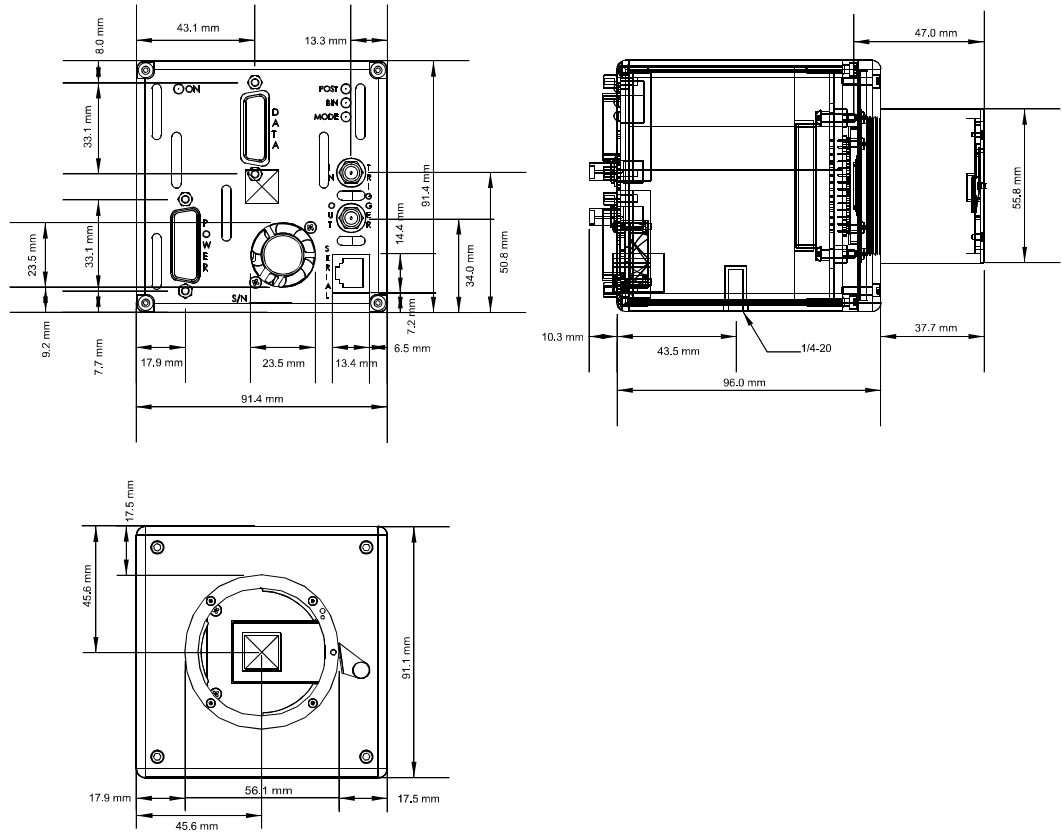
Connectors

Control	SMA coax for sync
Data	MDR60
Power	DB15M
Other	RJ-11F for serial link



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www.dalsa.com

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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