

DALSTAR 6M3

This progressive scan camera uses a Full Frame architecture—it requires a mechanical shutter.

Finally, a scientific grade camera that combines high resolution, high speed and true 12 bit performance...with available color output.

The DALSTAR 6M3 digital camera provides high-sensitivity 12-bit images with 3k x 2k spatial resolution at up to 3 frames per second (fps). The 6M3 cameras use full-frame progressive scan CCDs 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 monochrome 6M3P is an outstanding performer in film scanning applications, and the color 6M3PC, with its RGB Bayer color filter pattern, offers even more imaging possibilities.

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

- 3fps true 12-bit digitization
- Available color (6M3PC model, Bayer pattern)
- High sensitivity with low dark current
- Progressive scan readout
- Binning
- Programmable operation (via RS232)
- 100% fill factor

Specifications

Resolution	3072 x 2048
Pixel Size	12µm x 12µm
Aperture	36.9mm x 24.6mm
Lens Mount	F-mount
Max. Line/Frame Rate	2.75fps
Data Rate	20MHz
Data Format	12-bit RS422 or LVDS
Responsivity	19DN/(nJ/cm²) @540nm
Dynamic Range	3200:1
Nominal Gain Range	1 or 4x
Size	94x94x142mm
Mass	0.85kg
Operating Temp	10-45 C
Power Supply	+5V, -5V, +15V
Power Dissipation	<17W
Regulatory Compliance	CE
Example Part Number	DS-11-06M3

Applications

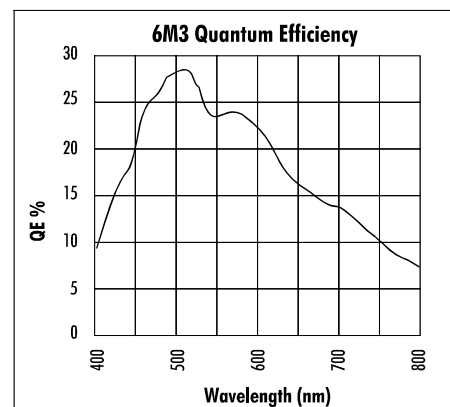
- Film scanning
- Large-format high-resolution imaging

Sensor

The 6M3 uses a high-performance full frame CCD.

Connectors

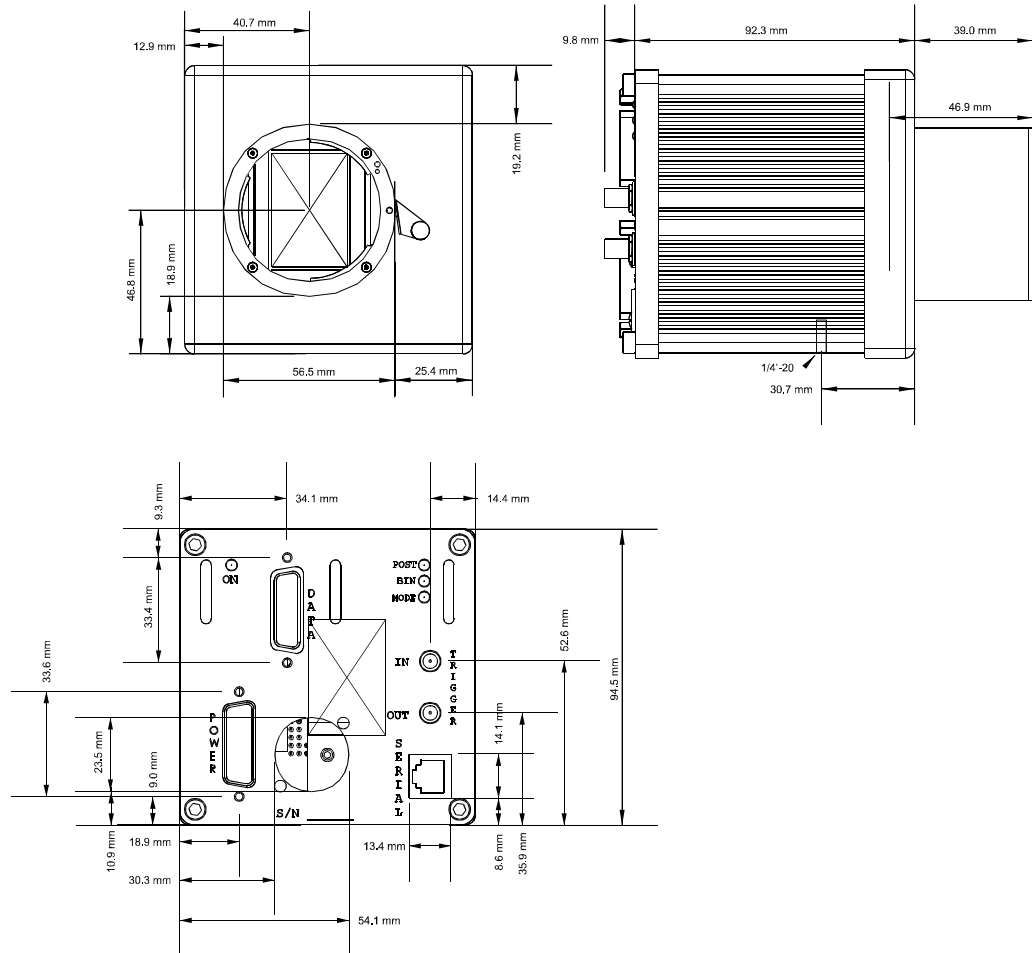
Control	SMA coax for sync
Data	MDR60
Power	DB15M
Other	RJ-11F for serial link



DALSTAR 6M3 Area Scan Cameras

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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 full product datasheet. Contact your local rep or visit our website at <http://vfm.dalsa.com/products>.

DALSA Worldwide Sales

605 McMurray Rd
Waterloo, ON N2V 2E9
Canada
Tel: 519 886 6000
Fax: 519 886 8023
www.dalsa.com
sales@dalsa.com

DALSA European Sales

Breslauer Str. 34
D-82194 Gröbenzell (Munich)
Germany
Tel: +49 - 8142 - 46770
Fax: +49 - 8142 - 467746
www.dalsa.com
europa@dalsa.com

DALSA Asia Pacific Sales

Space G1 Building, 4F
2-40-2 Ikebukuro
Toshima-ku, Tokyo 171-0014
Japan
+81 3 5960 6353 (phone)
+81 3 5960 6354 (fax)
www.dalsa.com
asia@dalsa.com



29-Aug-01
03-70-00074-04
www.dalsa.com

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