DALSTAR BT25

This progressive scan camera uses a backside-thinned frame transfer sensor with unmatched sensitivity, especially for short wavelengths of light.

Finally, a low-light scientific grade camera with real-time imaging capability.

The DALSATAR BT25 digital camera offers ultra-low light imaging capability. Its custom backside thinned, progressive scan, frame transfer CCD has a square pixel format and high fill factor to provide measurably superior image quality even at low light levels. 12-bit digitization preserves the sensor's outstanding resolution, dynamic range and gray scale characteristics.

The BT25 is an outstanding performer in scientific low-light applications. Unlike traditional low light cameras which require long exposures and liquid nitrogen cooling, the BT25 provides several times the optical sensitivity of conventional CCD technology at real time video rates. For the first time, users of low light imaging systems can enjoy real-time focus and light level adjustments at cost-effective pricing.

The BT25 uses RS422 format for its 12-bit data. Complete interface cable sets and Windows 95/98/NT control software make system set up and integration both simple and quick.

Features

- Backside-thinned sensor
- Sensitive into the UV
- 90% QE @ 600nm
- Free-run or asynchronous trigger
- Progressive scan readout
- Programmable operation (via RS232)
- 100% fill factor

Specifications

Resolution	658 x 490
Pixel Size	14μm x 14μm
Aperture	9.2mm x 6.9mm
Lens Mount	C-mount
Max. Line/Frame Rate	25fps
Data Rate	9.5MHz
Data Format	12-bit LVDS
Responsivity	243DN/(nJ/cm^2) @540nm
Dynamic Range	500:1 min.
Nominal Gain Range	n/a
Size	95x95x116mm
Mass	0.85kg
Operating Temp	0-35 C
Power Supply	+5V, -5V, +15V, -15V
Power Dissipation	<24W
Regulatory Compliance	
Example Part Number	DS-11-3HK25

Applications

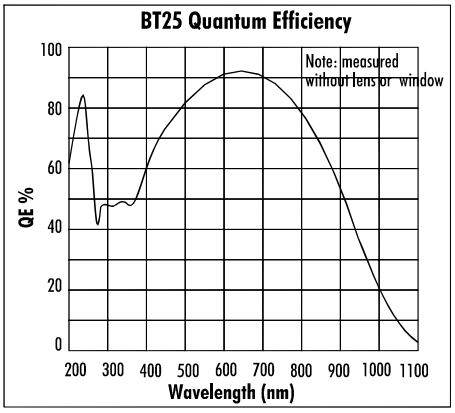
- Low-light scientific imaging
- Inspection

Sensor

The BT25 uses a high-performance frame transfer CCD.

Connectors

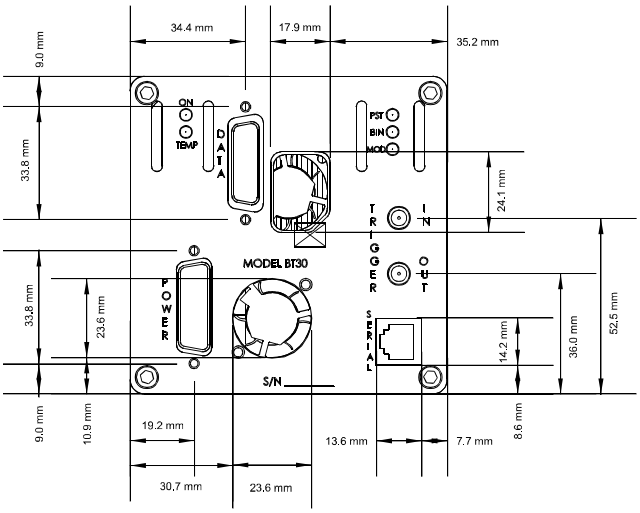
Control	SMA coax for sync
Data	MDR60
Power	26pin D-sub
Other	RJ-11F for serial link

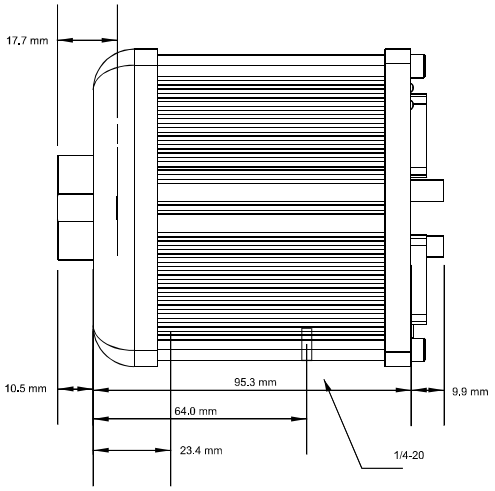


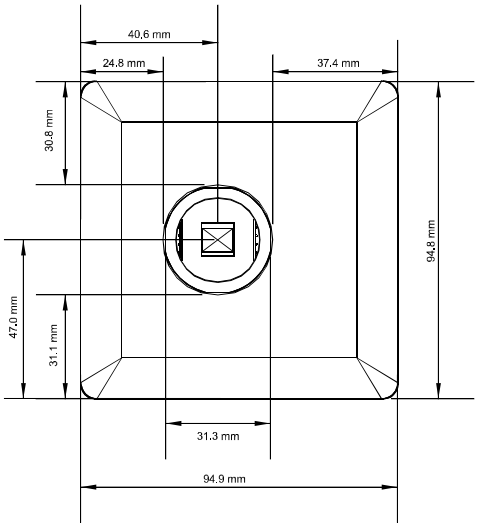
DALSA
technology with vision

29-Aug-01
03-70-00076-03
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.

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
europe@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
03-70-00076-03
www.dalsa.com