

Advanced Line Scan Cameras

Eclipse EC-11

This Advanced Line Scan camera uses TDI technology to combine multiple exposures, dramatically increasing sensitivity and decreasing lighting requirements. With programmable pixel-to-pixel correction, Eclipse provides the best images possible.

Don't be afraid of the dark.

Delivering 100X greater responsivity than standard line scan cameras, Eclipse represents a generational leap past the performance of today's benchmark line scan products. It offers an exponential increase in responsivity, performance and ease-of-integration, while drastically reducing the size and cost of advanced linescan technology.

Eclipse's tremendous responsivity allows for less expensive lighting (e.g. LED or fluorescent) and an increased depth of field because you can use a larger f# in the optics. Built-in processing for pixel-to-pixel FPN/PRNU correction can compensate for non-uniformities introduced by lighting and optics, reducing lighting and optics costs even further. 100% fill factor and 10-bit digitization (8 bits output) let Eclipse deliver crisp images not possible with traditional or line scan cameras. Its single 12V power supply simplifies the interface. All of this in a compact design makes Eclipse an outstanding choice for advanced linescan applications.



Features

- 100x more responsive than standard line scan
- Bidirectional scanning
- Compact package, high speed output
- Single 12V power supply
- 100% fill factor

Programmability

- Programmable pixel-to-pixel correction
- Selectable horizontal and vertical binning
- Selectable -8.5dB to 9.5dB gain
- Adjustable offset
- Selectable line rates, data rates and trigger mode
- CCD direction control
- Test pattern output and camera diagnostics

Typical Applications

- Postal sorting (bar-code reading, address lift, cancellation mark detection)
- Web inspection
- Electronics and semiconductor manufacturing machine vision

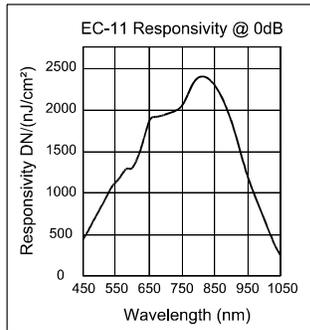
Camera Specifications

Resolution	512 / 1024 / 2048 x 96 TDI
Data Rate	40MHz
Max. Line/Frame Rate	64.1 / 34.8 / 17.4kHz
Pixel Size	13 μ m x 13 μ m
Data Format	8-bit LVDS
Lens Mount	C / C / F-mount
Responsivity	Up to 5850DN/(nJ/cm ²)
Dynamic Range	Up to 500:1
Nominal Gain Range	-8.5dB to +9.5dB
Size	50x50x88mm
Mass	<215 / <215 / <300g
Operating Temp	0-50°C
Power Supply	12 to 15V
Power Dissipation	<7W
Regulatory Compliance	CE, MIL-STD-810
Control	MDR36F
Data	Shared with Control
Power	Hirose HR10 6-pin
Example Part Number	EC-11-05H40 (512 Resolution) EC-11-01k40 (1024 Resolution) EC-11-02K40 (2048 Resolution)

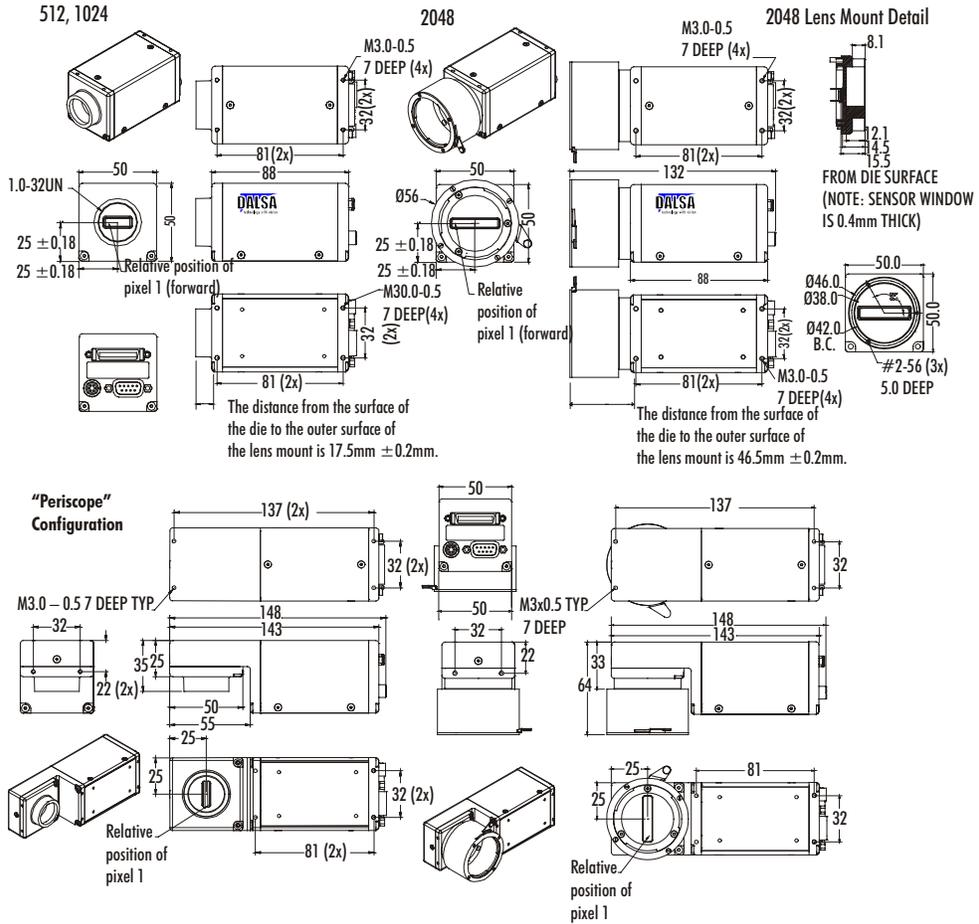
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Responsivity



Mechanical Dimensions



For More Information

For more detailed information on this and other products, including pinouts, timing, software, and signal descriptions see the user’s manual. The user’s manual is available at <http://vfm.dalsa.com>. You can also contact your local rep or visit our website at <http://vfm.dalsa.com>.



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