

Excel Series

High Resolution Digital Firewire Cameras

The Excel Series cameras are high resolution firewire devices perfect in any setting from an OEM system to a scientific laboratory. The dynamic combination of the Excel, plus the powerful new Exponent software, ensures quality images viewable in multiple configurations, featuring exceptional detail.



Model XL16 shown above. Standard XL16T shipment includes IEEE 1394 FireWire cable, IEEE 1394 PCI card, focus wrench, Exponent software and access to SDK. Lens not included.

FEATURES AND BENEFITS

Excel M

High Resolution Sensor

Utilizes Kodak 4.19 million pixel sensor
Exceptionally detailed images

High Performance

Full 2048 x 2048 resolution @ 7.2 fps
12 bits for high dynamic range

Excel 16

High Resolution Sensor

Utilizes Kodak 1.92 million pixel sensor
Highly detailed images

High Performance

Full 1600 x 1200 resolution @ 16 fps
12 bits for high dynamic range

Excel V

Speed

Utilizes Kodak VGA Sensor
640 x 480 @ 75 fps

All Excel Models:

Large Pixels (7.4um x 7.4um)

High sensitivity (Visible-NIR) Large well capacity

ROI (Region of Interest)

Provides full screen display of selected area of interest for detailed observation. Continuously variable to full resolution. Increases frame rate for focusing and dynamic images

Binning

Color and monochrome binning
Increases sensitivity and frame rate

(continued)

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FEATURES AND BENEFITS

(continued)

Multiple Display Algorithms	User selectable for speed or quality enhancement
User-Defined Memory Presets	Allows up to 15 different camera settings Ensures retention and repeatability
External Sync & Trigger	Allows synchronizing capture to external events such as strobes, shutters, or other equipment
General Purpose Input	Provides access to a footswitch control for hands-free image capture
Versatile Exposure Control	Automatically adjusts gain and/or shutter to achieve correctly exposed image, even under difficult lighting conditions
IIDC Compliant	Adheres to standards set forth by IEEE 1394 Trade Association Provides defined guidelines to ensure easy integration and consistency for software interface
IEEE 1394 FireWire	Single-cable connection to PC Simple installation and ease of use Cable and PCI card included Compatible with laptop computer
Firmware Update via Software	Provides seamless firmware upgrade through software Eliminates camera down time
Exponent Software	Full featured camera control software
Software Support	ImageJ, Metamorph, Twain, 3rd party specific, SDK

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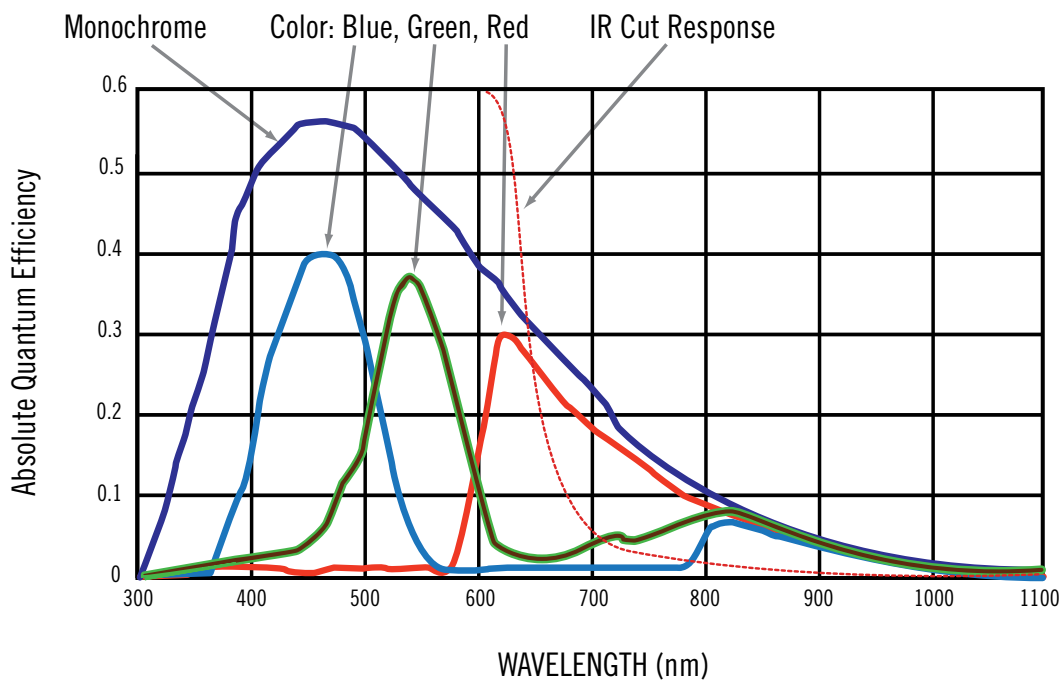
SPECIFICATIONS

CCD Pixels	Excel M - 4.19 million 2048 x 2048 Excel 16 - 1.92 million; 1600 x 1200 Excel V - 640 x 480
Sensor	Excel M - Kodak, KAI-4022 progressive-scan interline CCD (color or monochrome) Excel 16 - Kodak, KAI-2020 progressive-scan interline CCD (color or monochrome) Excel V - Kodak VGA sensor
Pixel Size	7.4um x 7.4um
Digital Output	12 bits
Frame Rate	Excel M - 7.2 fps full resolution Excel 16 - 15 fps full resolution Excel V - 75 fps full resolution
Digital Interface	IEEE 1394 FireWire, 6 pin; IIDC standard Version 1.31
Camera Firmware	Update via software
ROI Scan	User selectable and continuously variable to full resolution
Binning	Mono: 2x2, 4x4; Color: 3x3, 5x5
White Balance	Auto, Manual, Auto Tracking
Gain	Mono: 0 to +25db; Color: 0 to +21.5db
Viewing Modes	1:1, Fit to Window, Full Screen
Memory Presets	15 User Defined Presets plus factory default
Video Interpolation	Bilinear, Bicubic, Nearest Neighbor, High Quality Bilinear & Bicubic
Exposure/Integration	Factory preset to 10 minutes (extended optional) Auto Exposure, Auto Gain, Auto Shutter
Trigger Types	Internal, External, Software
External Trigger	Mode 0: Asynchronous Reset (IIDC v1.31) Mode 1: Bulb Shutter Mode (IIDC v1.31)
External GPIO	One Input, One Output. Software accessible. Control Power: +3.3VDC limited to 100mA
Additional Features	Timestamp, Histogram, Camera Name
Lens Mount	C-mount with adjustable back focus. F-mount adapter optional.
Thread Mount	¼" – 20 mount
Operating System	Windows®XP, SP2, Linux®
Standards	FCC, part 15 class B, CE, RoHS
Software	Exponent capture software, Twain, 3rd party specific, SDK

•specifications subject to change.

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SPECTRAL RESPONSE



Note: Monochrome cameras have an "Anti-Reflective" coated clear window fitted in the C-mount focus ring to protect the sensor. This is not an IR cut filter. Color cameras have an "IR Cut" color balancing filter fitted in the C-mount focus ring.



Dage-MTI (219) 872-5514

Call for additional product information or free product demos.

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