

Evolution™ QEi **DIGITAL KIT**

Evolution™ QEi Super High Sensitivity FireWire™ Camera Kit

The Digital Camera for Low-Light and Fluorescence Applications

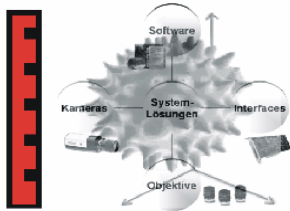
Overview

Evolution QEi Digital Kits include an image acquisition solution perfect for low-light and fluorescence applications. These cameras offer high-resolution megapixel capability with the convenience of a FireWire (IEEE 1394) digital interface. This monochrome digital camera offers high speed, low noise electronics for rapid image capture.



Evolution QEi Features

- ▶ High quantum efficiency in visible and IR ranges
- ▶ High, 1.4 million pixel resolution
- ▶ Extremely low noise with cooling to 25 degrees below ambient
- ▶ FireWire digital interface simplifies installation and eliminates the need for framegrabber cards
- ▶ 10 fps full resolution in 8-bit, 5 fps in 12-bit; Higher speed with binning and ROI functions (up to 4x4 binning)
- ▶ Real time image preview



- ▶ Optional RGB filter for color images
- ▶ FireWire cable carries video data, camera commands and power— no additional cables required
- ▶ Image-Pro® driver controls for:
 - Signal gain and exposure time
 - Imager subwindow size and position

Works Seamlessly with Image-Pro Software

The Evolution QEi kit comes with an Image-Pro family driver that requires one of the following Image-Pro family applications:

Image-Pro® Express

Perfect for basic imaging, Image-Pro Express offers numerous capture and enhancement options. Includes an easy upgrade path to Image-Pro Discovery or Image-Pro Plus.

Image-Pro® Discovery

More advanced than Image-Pro Express, Image-Pro Discovery includes added measurement and analysis capabilities. Includes an easy upgrade path to Image-Pro Plus.

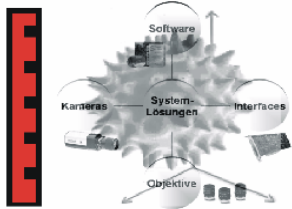
Image-Pro® Plus

The ultimate imaging software package. Image-Pro Plus includes all of the functionality of Image-Pro Discovery along with added analysis tools and the ability to write customized macros.

Experience a Fully Integrated Solution

Don't risk valuable time and money by attempting to use poorly integrated software and hardware components. Evolution QEi Digital Kits provide guaranteed compatibility from one source, at a price that is easy on your budget.





Evolution QEi Camera Specifications	
Imaging Chip	
Type	2/3" Sony ICX-285 progressive scan interline CCD monochrome
Resolution	1360 x 1036 Light Sensitive Pixels
Pixel Size	6.45µm x 6.45µm
Readout Noise	8 electrons
Dark Current	0.15 electrons/pixel/sec cooled
Maximum Frame Rate	10 fps full resolution in 8-bit, 5fps in 12-bit. Higher speed with binning and ROI functions (up to 4x4 binning)
Shutter	Electronic shutter, no moving parts
Cooling Type	Peltier thermoelectric cooling to 25°C below ambient
Electrical	
Voltage	12 volts
Power	900 milliamps
Physical	
Weight	865g
Lens mount	C-mount, 2/3" optical format
Interface	
Operating System	Windows® 2000 and XP
Data Format	12-bit
Interface Type	IEEE 1394 FireWire
Maximum Data Rate	20 MHz at 8-bit and 10 MHz at 12-bit

Technische Änderungen vorbehalten.

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