

FROM IMAGES TO ANSWERS[®]

Evolution[™] MP 5.1 Mega-pixel FireWire[™] Digital CCD Color Camera Kit

The Ultra High Resolution Digital Camera Kit

Overview

The Evolution MP cameras offer a 5.1 mega-pixel CCD Sensor, the first scientific package to incorporate this technology. The complete ultra high resolution field of view captured by the full 5.1 million pixels on the sensor reduces the chance of image artifacts or lost information. This camera also ensures that preview and capture speed are not sacrificed, as it provides a variety of selectable resolution options and capture speeds to suit many applications.

Evolution MP cameras include the convenience of a FireWire (IEEE 1394) digital interface and are available in an optional thermoelectric cooling at ten degrees below ambient.

Evolution MP Features

- 5.1 mega-pixel CCD sensor produces high resolution picture that reduces the chance of image artifacts or lost information
- Full color binning up to 4x4 for rapid preview and focus
- Region of Interest function allows for selection of specific region in an image
- Flexible exposure control from 1.6 milliseconds to 18 minutes in 1 microsecond increments
- Peltier cooling option on cooled model minimizes thermal noise during low-light imaging
- 36-bit color images with 1024 intensity levels per color



Evolution MP Features (cont.)

- FireWire digital interface simplifies installation and eliminates the need for framegrabber cards
- FireWire cable carries video data, camera commands and power— no additional cables required
- Image-Pro driver controls for:
 - Gamma correction, signal gain, and exposure time
 - Imager subwindow size and position
 - Image flip and mirror

FROM IMAGES TO ANSWERS®

Evolution MP Camera Specifications

Imaging Chip	
Type	2/3" Sony ICX-282, 2 to 1 interlaced CCD color
Resolution	2588 x 1960, 5.1 million pixel sensor resolution
Pixel Size	3.4µm x 3.4µm
Readout Noise	9.8 electrons
Maximum Frame Rate	3-5 fps at 2560 x 1920 (36-bit)
Shutter	Electronic shutter, no moving parts
Cooling Type	Optional Peltier thermoelectric cooling to 10°C below ambient
Electrical	
Voltage	12 volts
Power	330 milliamps; 580 milliamps for cooled model
Physical	
Weight	710g
Lens mount	C-mount, 2/3" optical format for microscope or camera lens, plus a 1/4"-20 tripod mount
Interface	
Operating System	Windows® 2000 & XP
Data Format	10-bit
Interface Type	IEEE 1394 FireWire
Maximum Data Rate	20 MHz at 8-bit and 10 MHz at 10-bit

Works Seamlessly with Image-Pro Software

The Evolution MP 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 MP Digital Kits provide guaranteed compatibility from one source, at a price that is easy on your budget.

Our Worldwide Dealer Network is There to Assist You. For a Dealer In Your Area, Contact us Today!



Media Cybernetics, Inc.
 8484 Georgia Avenue, Suite 200
 Silver Spring, MD 20910 USA
 Phone: +1.301.495.3305
 Fax: +1.301.495.5964
 E-mail: info@mediacy.com
Web: www.mediacy.com

Europe: +31.715.730.639
 Fax: +31.715.730.640

UK: +44.(0).118.979.4065
 Fax: +44.(0).118.979.7999

Asia Pacific: +65.6245.4965
 Fax: +65.6245.4967