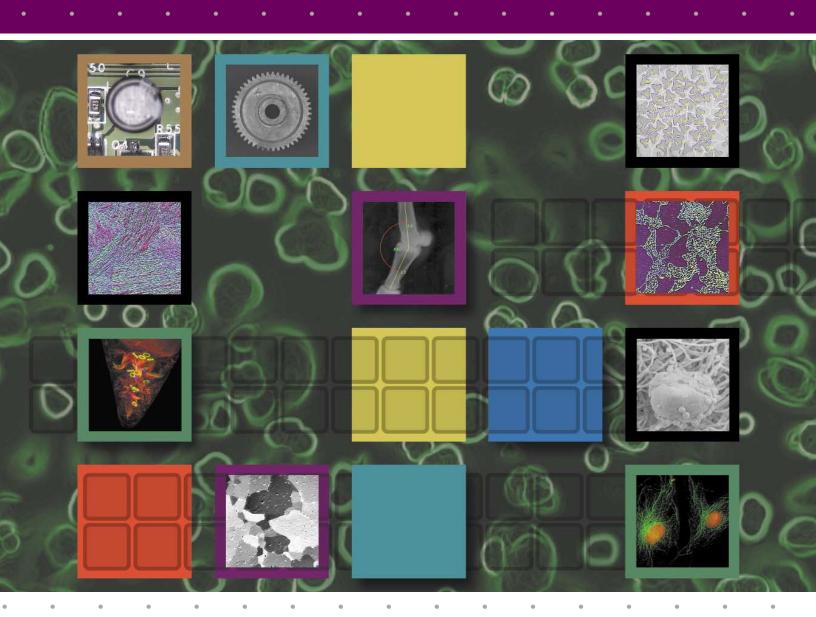
IMAGE-PRO® PLUS

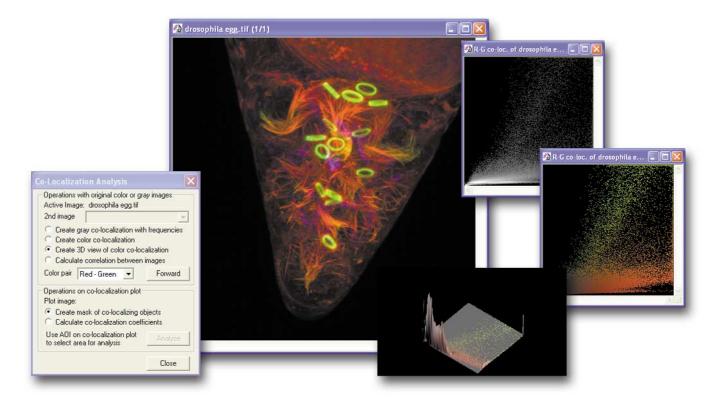


THE ULTIMATE IMAGE ANALYSIS SOLUTION FROM THE IMAGE-PRO FAMILY





Measure co-localization of probes in separate gray scale images or within a color image



Experience the Power and Functionality of Image-Pro Plus...

From Images to Answers

Image-Pro Plus is the ultimate image analysis software package for fluorescence imaging, quality assurance, materials imaging, and various other scientific, medical, and industrial applications. The most powerful member of the Image-Pro software family, Image-Pro Plus includes extensive enhancement and measurement tools and allows you to write application-specific macros and plug-ins.

Capture

Image-Pro Plus provides support for advanced digital cameras, sophisticated image capture cards, scanner devices, TWAIN, Video-for-Windows (VFW), and most confocal microscopy systems. As new devices are developed, drivers are made available on our website at www.mediacy.com.

Enhance

Work with a variety of enhancement and image processing tools including:

- Extended Depth of Field to create focused composite images from a series of unfocused images
- Fast Fourier Transform (FFT)
- Extensive list of filters including Large Spectral Filters
- User-definable kernel sizes
- Background subtraction and correction
- · Sequence Gallery for easy image preview

Measure

Easily guarantee fast, accurate, and repeatable results with over 50 measurement options including:

- Length, area, perimeter, and angle tools
- Best-fit line, arc, and circle metrology tools
- Caliper tool for edge detection and measurement
- Automatic count and size tools
- Auto-trace feature to easily outline objects

Analyze

Test, compare, and analyze your data for maximum results.

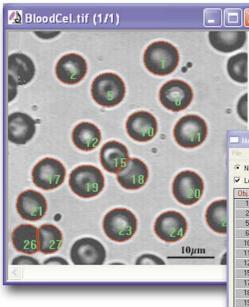
- Visualize image data with scattergrams, histograms, line profiles, and surface plot
- Produce gray scale, color, and 3D representations of co-localization with automatic measurements
- Add, subtract, or mask images with Boolean or arithmetic functions
- Export data to statistical and spreadsheet packages via Direct Data Export (DDE)
- Calculate statistics

Track your Work

When combined with a robust company compliance system, the following features allow you to address concerns of governmental regulatory agencies:

- Audit Trail logs application events in Image-Pro Plus and records them to a printable text file
- File and Image Signature create "fingerprints" for individual files and images

Count and size objects automatically and display measurements as histograms and scattergrams



Area Bin: 10 0 4			File			File
Surrement Data 5 5 Correlation: .5178674 5 .5	2		Area	Bins:	10 🌩	Y-axis: Area 💌
surement Data 0 4 0 <						
surement Date				5		
surement Data				4 -		
Surement Data C 2 31846812 39712214 47577615 Area Sort Sort Up Sort Down Or: Area Image: Area<			i.	3-	-	.480 -
surement Data ¹ / ₁ 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				ା 📕	_	.460 -
surement Data ⁰ 31846812 39712214 47577615 Area ⁴ 420 ⁰ 420 ⁴ 420			t			440 - +
Surement Data 31846812 39712214 47577615 Area Sort Sort Up Sort Down Orr Area ate the object Scrol to the object Image: Control to the object Image: Control to the object 51510316 81634229 2.5950704 1.0403853 32.412 38873031 7.7159761 2.302182 1.0640150 22.30710 393730129 7.7593776 2.4109311 1.1642327 22.597 36549929 7.71597672 2.2744491 1.1253052 22.310237 30549829 7.71597672 2.2744491 1.1253052 22.310237 305549929 7.71597672 2.2179172 1.1469104 File Ed: View Measure Image 4.41253042 70016611 2.4199297 1.125309 Intensity Range Selection Count 4.41253042 70515810 2.5132514 1.1050575 Count / Size Intensity Range Selection Count 4.4156584 7.6159877 2.4242634 1.1251427 Automatic Bright Objects Options 4.448811			s			
Area Area Sort Sort Up Sort Down Orr Area Sort Scrol Up Sort Down Orr Area Sort Scrol Up Scrol To the object. Image: Control of the object. Area Diameter (mean) Perimeter Roundness Image: Control of the object. Sort Scrol To the object. Image: Control of the object. Image: Control of the object. Image: Control of the object. Sort Statistical and the object. Diameter (mean) Perimeter Roundness Image: Control of the object. South Statistical and the object. Diameter (mean) Perimeter Roundness Image: Control of the object. 38873091 .72159761 2.3021882 1.0403853 32.412 .393730129 .759513782 2.5337883 1.0250627 22.301037 .395549929 .71957672 2.2179172 1.1463104 File Count / Size .31344812 .66154259 2.1092718 Count / Size Count / Size .31345812 .27616611 2.4193297 1.125339 Manual Select Risnges </td <td></td> <td></td> <td></td> <td></td> <td></td> <td>e – f</td>						e – f
Sort Sort Lip Sort Down Ort Area ate the object. Scroll to the object. <u>Area</u> Diameter (mean) Perimeter Roundness <u>51510316</u> 81634229 2.5950704 1.0403853 32.412 <u>38873091</u> 72159761 2.3021882 1.044150 22.202 <u>50076985</u> .79513782 2.533783 1.0250627 30.710 <u>.3857393129</u> .725933176 2.4109311 1.1263052 22.310237 <u>.36543923</u> <u>.71957672</u> <u>2.2744491</u> <u>1.1263052</u> <u>22.310237</u> <u>.38648912</u> <u>.66154259</u> <u>2.1098293</u> <u>1.1989015</u> <u>.31846812</u> <u>.66154259</u> <u>2.1093278</u> <u>.331346812</u> <u>.66154259</u> <u>2.1093278</u> <u>.3057042</u> <u>.7271712</u> <u>1.1463104</u> <u>.3057041</u> <u>.71732146</u> <u>2.284620</u> <u>1.0233753</u> <u>.30550953</u> <u>.71393226</u> <u>2.2956035</u> <u>1.0173231</u> <u>.4125127</u> <u>.71732146</u>				.31846812 .3		
Soft C Soft Up					Area	.380 - +
ate the object Scroll to the object. Area Diameter (mean) Perimeter Roundness 51510316 81634229 25950704 1.0403653 32 412 38879091 72159761 2.3021882 1.0848150 22 20 10D 50075985 77513782 2.5337933 1.0250627 30.710 X-axis: 10D		C Calle C	Cast Damas One La			.360 - +
are ine object. 3500 to the object. Area Diameter (mean) Perimeter Roundness 51510316 31634223 2.5950704 1.0403853 32.412 38879091 .72159761 2.3021882 1.0648150 22.202 5.50076865 .73513782 2.5337383 1.0250627 30.710 ×.axis: 10D 3.9730129 .756933176 2.4109311 1.1643227 22.957		and a state of the second	CONTRACTOR OF THE OWNER	sea 💌		340 +
Area Diameter (mean) Perimeter Roundness 51510316 .81634229 2.5950704 1.0403853 32.412 .38987901 .72159761 2.0021882 1.0e40150 22.202 10D .50076385 .79513782 2.5397983 1.0250627 30.710 X-axis: 10D .39730129 .759393176 2.4109311 1.1642327 22.957	ate th	e object.	Scroll to the object.			
.51510316 .81634229 2.5950/04 1.040383 32.412 IOD .38879091 .72159761 2.3021882 1.0640150 22.202 IOD .50076385 .79513782 2.533783 1.0250627 30.710 X-axii: IOD .39730129 .75833176 2.4109311 1.162327 22.957 X-axii: IOD ✓ .39549329 .71957672 2.2744491 1.1263052 22.310237 X-axii: IOD ✓ .30549329 .71957672 2.2744491 1.163052 22.310237 X-axii: IOD ✓ .31846812 .66154259 2.1069629 1.1092718 Count / Size IOC IOD X-axii: IOD ✓ .34131181 .67651027 2.2179172 1.1463104 Fie Edt. View Measure Image Intensity Range Selection Count Count .40257211 .71352146 2.2956036 1.06112831 Intensity Range Selection Count Delete .47120741 .80267572 2.5503741 1.1060575 Xuomatic Bright Objects Qptions Automatic Bright Objects						20 25 20
1.388/3091 ./2163/61 2.3021882 1.0844150 22.201 X-axis: 10D 1.39730123 ./5893176 2.4019311 1.1642327 30.710 X-axis: 10D						32.412
39730129 .75893176 2.4109311 1.1642327 22.957 .7081. per						22.202
.36549923 .71957672 2.2744491 1.1263052 22.310237 .40694711 .77998933 2.4830942 1.1998015						
.40894711 .77996939 2.4830942 1.1998015 .31846812 .66154259 2.1059523 1.1092718 .34131181 .67861027 2.2179172 1.1469104 .41253042 .76016611 2.419297 1.1258390 .40357211 .71732146 2.2848220 1.0293753 .50211358 .7659160 2.5335844 1.0173231 .41566584 .76159877 2.4242634 1.1251427 .39550963 .71989226 2.295035 1.0611269 .47120741 .80267572 2.55591741 1.1060575 .44691162 .79188460 2.5125120 1.1192933						
.31846812 .66154259 2.1069629 1.1092718 □ Count / Size □ Count / Size .34131181 .67661027 2.2179172 1.1469104 File Edt. View Measure Image .41253042 .76016611 2.4193297 1.1296390 Intensity Range Selection Count .41253042 .76016611 2.5335844 1.0173231 Intensity Range Selection Count .50211358 .7958160 2.5335844 1.0173231 Intensity Range Selection Count .41566584 .76153977 2.4426394 1.1251427 One11269 Manual Select Ranger Count .44881162 .79188460 2.5125120 1.1192833 Count one1269 Options Options .44881162 .79188460 2.5125120 1.1192833 Count one1269 Options 32						22.310237
.34131181 .67861027 2.2179172 1.1469104 .41253042 .76016611 2.4193297 1.1236300 .40357211 .71732146 2.2848220 1.0233753 .50211388 .7569160 2.5335844 1.0173231 .41566584 .76159877 2.4242694 1.1251427 .39560663 .71989226 2.2965035 1.0611269 .44881162 .79188460 2.5125120 1.1192893 .44881162 .79188460 2.5125120 1.1192893	1					
.41253042 .76016611 2.4193297 1.1296390 .40357211 .71732146 2.2848220 1.0293753 .50211358 .7956160 2.5335844 1.0173231 .41566584 .76159877 2.4242694 1.1251427 .39550953 .71983226 2.2956035 1.0611269 .47120741 .80267572 2.5591741 1.1060575 .44881162 .79188460 2.5125120 1.1192893						🗖 Count / Size 👘 💽
.40357211 .71732146 2.2848220 1.0233753 Intensity Range Selection Count .50211358 .7559160 2.5335844 1.0173231 Current Range Current Range Current Range Current Range Count .39550963 .71989226 2.2955035 1.0611269 Manual: Select Ranges Delete .44881162 .79188460 2.5125120 1.1192893 Count Delete Delotons						File Edit View Measure Image
1.5001138 1.7158160 2.5335844 1.0173231 Current Range (0118) 1.41565584 .75159877 2.4242834 1.1251427 Current Range (0118) Delete 1.41565584 .75159877 2.4242834 1.1251427 Current Range (0118) Delete 1.41565594 .71938226 2.2985035 1.0611269 Current Range (0118) Delete 1.4120741 .80267572 2.55125120 1.1192893 Current Range (0118) Delete 1.44881162 .79188460 2.5125120 1.1192893 Current Range (0118) Delete						Intensity Banga Selection
.41566584 .76159877 2.4242634 1.1251427 .39550953 .71989226 2.2955035 1.0611283 .47120741 .80267572 2.5531741 1.1060575 .44881162 .73188460 2.5125120 1.11132893						Lount
.39550963 .71969226 2.2965035 1.0611269 C Manual: Select Ranges Delete .47120741 .80267572 2.5591741 1.1060575 C Automatic Bright Objects Options .44881162 .79188460 2.5125120 1.1192833 C Automatic Bright Objects Options Masure Objects Total Count: 32						Current Range (0118)
.47120741 .80267572 2.5591741 1.1060575 C Automatic Bright Objects Options .44881162 .79188460 2.5125120 1.1192893 C Automatic Dright Objects Options						Delete
.44881162 .79188460 2.5125120 1.1192893 C Automatic Bright Objects Uptions Image: Comparison of the system of						C Manual: Select Ranges
Automatic Dark Objects ✓ Measure Objects Total Count: 32		.39550963				
Measure Objects Total Count: 32		.39550963 .47120741	.80267572			Automatic Bright Objects
		.39550963 .47120741	.80267572			
		.39550963 .47120741	.80267572			
		.39550963 .47120741	.80267572			Automatic Dark Objects

Customize

- Automate your research with the Auto-Pro programming language
- Compress lengthy operations into a single keystroke or mouse click
- Integrate and customize macros or plug-ins with Visual Basic or Visual C++

Image Informatics

Transform the data you receive from images into answers with powerful image informatics tools:

- Generate custom formatted reports with images, data, and text
- Acquire, organize, store, retrieve, and send your images with the built-in Image-Pro Database

Add Application-Specific Plug-Ins

Extend the functionality of Image-Pro Plus with seamlessly integrated Plug-In modules

- Materials-Pro[®] Plug-In is designed for industrial materials scientists and technicians who need improved solutions for quality control and product development
- Scope-Pro® Plug-In allows Image-Pro users to control and program the movement of their automated microscope, stage, filter wheels, etc.
- AFA™ (Advanced Fluorescence Acquisition) Plug-In offers an automated method to acquire fluorescent images in multiple dimensions
- SharpStack[™] Plug-In extracts clear, sharp images from a stack of hazy planes
- **3D Constructor™ Plug-In** provides 3D reconstruction and visualization

Join a Community

By taking advantage of all Image-Pro Plus has to offer, you will find yourself part of a worldwide imaging community.

Accumulate Count

- Share tips with others on our Image-Pro Email User's Group
- Search for application notes, device drivers, and more on our website at www.mediacy.com
- Learn the basics of Image-Pro Plus or more advanced image analysis or programming skills through our variety of imaging training courses

The Image-Pro Family

The Image-Pro software series reflects the maturity of over 20 years of development, evolution, and user feedback. We offer three unique Image-Pro packages to accommodate a variety of imaging needs.

Image-Pro® Express

Perfect for basic imaging or for image capture stations, Image-Pro Express offers quick capture and enhancement tools.

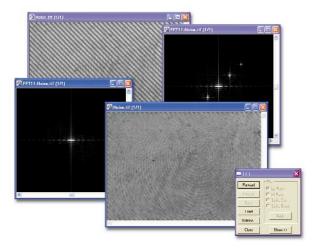
Image-Pro[®] Discovery

More advanced than Image-Pro Express, Image-Pro Discovery offers added measurement and analysis capabilities.

Image-Pro[®] Plus

The ultimate imaging solution, Image-Pro Plus includes all of the features of Image-Pro Discovery along with added tools and the ability to write customized macros and plug-ins.

Create forward and inverse transforms with Fast Fourier Transform (FFT)



Create composite images from an infinite number of source gray scale images with Color Composite

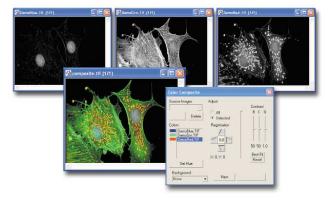
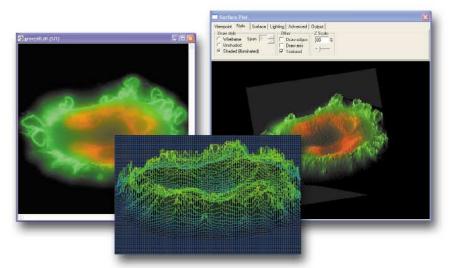




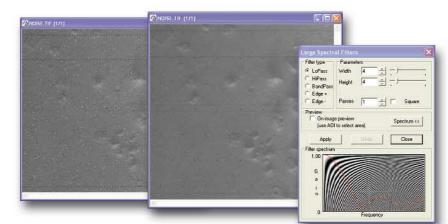


Image-Pro Plus Assists You With All of Your Imaging Needs...

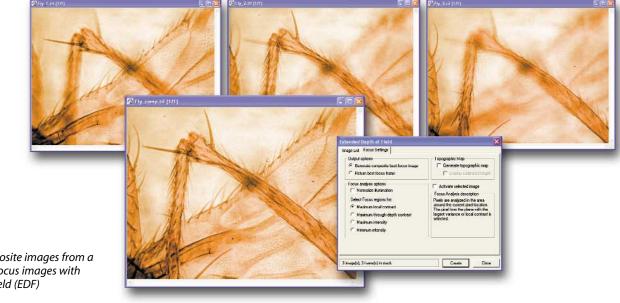
Image-Pro Plus includes numerous features that allow you to capture, communicate, process, measure, analyze, archive, customize, generate reports, and print. For more information and sample applications, visit www.mediacy.com.



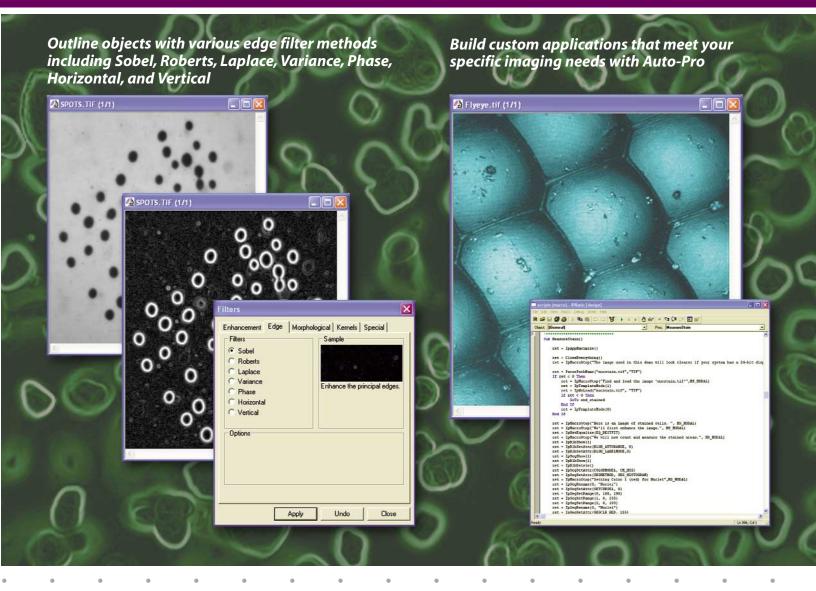
Display image intensity values in a 3D plot with Surface Plot



Increase filtering speed on images with large kernel size (up to 4000 x 4000) with Large Spectral Filters



Create in-focus composite images from a series of partially in-focus images with Extended Depth of Field (EDF)



OUR WORLDWIDE DEALER NETWORK IS THERE TO ASSIST YOU. FOR A DEALER IN YOUR AREA, CALL TODAY!

H E A D Q U A R T E R S

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



INTERNATIONAL OFFICES

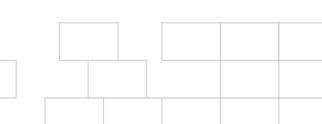
South America: Phone: +55.11.4427.7803 Fax: +55.11.4427.9527

Europe: Phone: +31.715.730.639 Fax: +31.715.730.640

Asia Pacific: Phone: +65.6245.4965 Fax: +65.6245.4967







©2002 Media Cybernetics, Inc. All products and services mentioned are trademarks of their respective owners.