

Stream Motion – Automated imaging and reliable data control

Stream Motion puts the user in the driving seat for all imaging and analysis tasks: With full control of motorised components and a comprehensive set of measurement and data management tools, all processes become faster, smoother and more robust.



- Full control over motorised components
- Comprehensive auto-focus options
- Unmatched documentation and data-management
- Expandable with Stream Materials Extensions

Basic Image Acquisition	Live image acquisition	Captures live images in various formats
Basic Image Tools	Image history and properties	Displays image history and properties
	Image navigator	Enables tool window for image navigation and zooming
	Gallery view	Displays thumbnails of open images in a gallery
	Layers	Enables viewing, extraction and deletion of single image layers
	Image processing filters and tools	Enables contrast adjustment, edge detection, smoothing and sharpening of images, and shading correction
	Static annotations	Draws text, arrows, lines, rectangles and ellipses on the image
Interactive Measurement	Field of view measurement	Measures distances, angles, rectangles, circles, ellipses and polygons
Olympus Device Control	Olympus microscope control	Controls motorised Olympus microscope systems BX2, IX2, GX, SZX, SZX2, MX, reads out Prior SZX- ZE
	Olympus cameras	Controls Olympus cameras DP20, DP70, DP71, DP72, SC30, UC30, XC10, XC10IR, XC10T, XC10TIR, XC30, XC50, XM10, XM10IR, XM10T, XM10TIR
Extended Image Acquisition	Movie	Creates .avi movie files
	Software autofocus	Performs contrast-based software autofocus (requires Olympus microscope with motorized Z axis or external motorized Z axis*) *supported in Stream Motion
Basic Reporting	Data export and statistics	Exports measurement data to MS Excel and Stream workbook format, enables statistical analysis of measurements
	Report generator	Creates reports interactively and exports to RTF / PDF
Basic Customisation	MyFunctions	Creates a workflow and large button bar for frequently used commands
Extended Device Control	Non-Olympus cameras	Controls non-Olympus cameras. Q-Imaging cameras: MicroPublisher 3.3 RV, Jenoptik cameras: ProgRes C3, ProgRes CT3, Hamamatsu cameras: C9300
	Imaging source converter	Controls DFG-1394 A-D converter (FireWire and USB2.0)
Advanced Acquisition Process	Instant EFI	Instantly creates an EFI image while focusing
	Manual MIA	Creates panoramic images over areas (requires manual XY stage)
	Time lapse	Captures still images over time frequency
Extended Image Tools	Image arithmetic	Performs arithmetic and logical operations with images
Basic Image Analysis	Phase Analysis	Performs threshold based phase segmentation on full image and ROIs (rectangle, circle and polygon), calculates area, area fraction and object count
Advanced Customization	Macro Recorder	Allows recording and editing of macros
Advanced Automated Acquisition Process	Automated EFI	Automatically creates an EFI image via pre-defined number of slices, step size and top/bottom range (requires motorized Z)
	Automated MIA	Creates panoramic images over areas (requires motorised stage)
	Automated Z-stack acquisition	Automatically acquires Z-Stacks (requires motorized Z)
	Position lists and stage navigator	Captures images at multiple stage positions or over stage areas
Stage Control	3rd-party stage controls	Controls X/Y-stage controllers for OASIS, Prior ProScan, LUDL MAC, Märzhäuser Tango, ITK Corvus, Lang L-Step
Advanced Image Tools	Projections of display	Calculates projections of image display (min, max mean)
	Intensity calibration	Performs intensity calibration of channels
	Dynamic annotations	Marks reference points on image and enables text or audio annotations
Extended Reporting Functions	Report composer	Creates report templates via drag-and-drop instructions
Data Management	Client-server database	Provides image and data management solution for microscopy (utilizes Microsoft SQL 2005 Express)
Options		
Remote Viewing	NetCam	Enables remote live image viewing via TCP/IP
Extended Image Analysis	Objects analysis	Performs threshold based object detection and classification

