



HELLABIOSCAN

HellabioScan is designed for clinicians, researchers, scientists, lab technicians, quality assurance and R&D specialists.

It is intended to be used to analyse different electrophorograms of proteins, and DNA/RNA fractions on agarose gel, or cellulose acetate, after staining with Amido Black, Coomassie blue, Ethidium Bromide etc.

If you use one dimension electrophoresis as a main application in your lab then you will require a software solution that provides an extensive and flexible range of tools to cater for all your analysis and data-mining.

SPECIFICATION

Runs Everywhere: On Linux, Mac OS 9, Mac OS X and Windows.

Data Types: 8-bit greyscale or indexed colour, 16-bit unsigned integer, 32-bit floating-point and 32-bit RGB colour.

File Formats: Open and save all supported data types as TIFF (uncompressed) or as raw data. Open and save JPEG.

Speed: Very fast. It can filter a 2048x2048 image in 0.1 seconds. That's 40 million pixels per second.

Toolkit: Tools are provided for zooming (1:32 to 32:1) and scrolling images. All analysis and processing functions work at any magnification factor.

Regions of Interest: Create rectangular (or elliptical or irregular regions of interest).

Image Enhancement: Supports smoothing, sharpening, edge detection, median filtering and thresholding on both 8-bit greyscale and RGB colour images.

Geometric Operations: Crop, scale, resize and rotate. Flip vertically or horizontally.

Analysis: Measure lengths and angles.

Editing: Cut, copy or paste images or selections.

Colour Processing: Split a 32-bit colour image into RGB or HSV components.

Merge 8-bit components into a colour image. Convert an RGB image to 8-bit indexed colour. Apply pseudo-colour palettes to greyscale images.

Additional Technical Specification

- Automatic and manual lane detection.
- Multiple background subtraction methods.
- Automated band detection with adjustable parameters.
- Analysis protocols run through automatic analysis .
- Contrast and colour adjustment .
- Support of clinical data.
- Multi-box adjustment.
- Move, resize and bend individual lanes.
- Delete Lanes.
- Background Subtraction.
- Adjustable peak parameters [find none, find all, find fixed].
- Manual editing of peak and edge detection in image and lane profile windows.
- Invert gel intensities.
- Rotate image.
- Understandable user interface based on actual laboratory protocols and terminology.
- Automatic identification of lanes and bands in an image.
- Analysis correction for irregular gels.
- Saves extensive information with each thumbnail.
- JPEG, compression supported

CE Certificate: GR/CAO1/GRM12/O/208

Accessories: Common Computer, Scanner, Printer.

Basic Concepts:

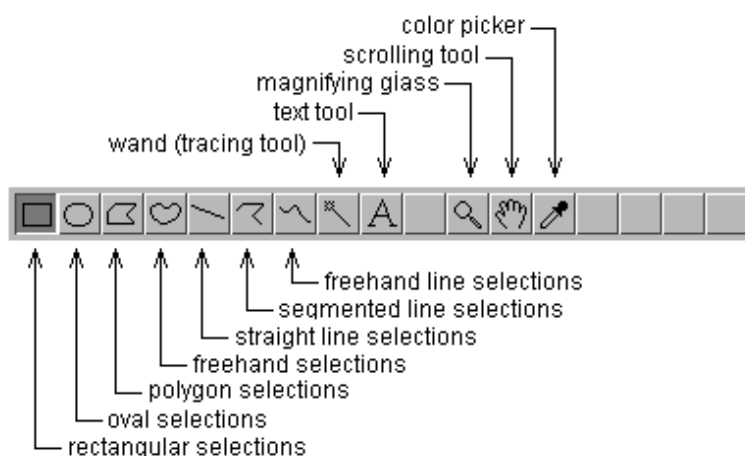
Windows

The window contains a menu bar, tool bar, status bar, and a progress bar

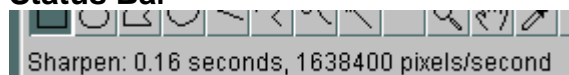
Tool Bar



The Tool bar contains tools for making selections, for zooming and scrolling images, and for changing the drawing colour. Click on a tool and a description of that tool is displayed in the status bar.



Status Bar



The status bar, when the cursor is over an image, displays pixel coordinates

and values. After running a filter, it displays the elapsed time and processing rate in pixels/second.

Progress Bar



The progress bar, located to the right of the status bar, shows the progress of time-consuming operations. It will not appear if the operation requires less than approximately one second.

Images

It allows multiple images to be displayed on the screen at one time. The active window has its title bar highlighted. All operations will be performed on the active image.

Image Menu : Type, Adjust, Crop, Duplicate, Rotate,

Selections



Selections are user defined areas or lines within an image. Only one selection can be active at a time. Area selections are created using the rectangular, oval, polygonal and freehand selection tools. In case of electrophorogram use rectangular.

System Requirements

HellabioScan is compatible with, large monitors, flatbed scanners, film recorders, graphics tablets, PostScript laser printers, photo typesetters and common colour printers.

Order:

Cod	Lot	Description	Cod EDMA	CE (Registration in MOH)	Registration Protocol in MOH
HSCANS 01	126	HELLABIOSCAN	41.01.01.01 SOFTWARE TO ANALYZE ELECTROPHOR OGRAMS	GR/CAO1/GRM12/O/209	18844/23/3/05