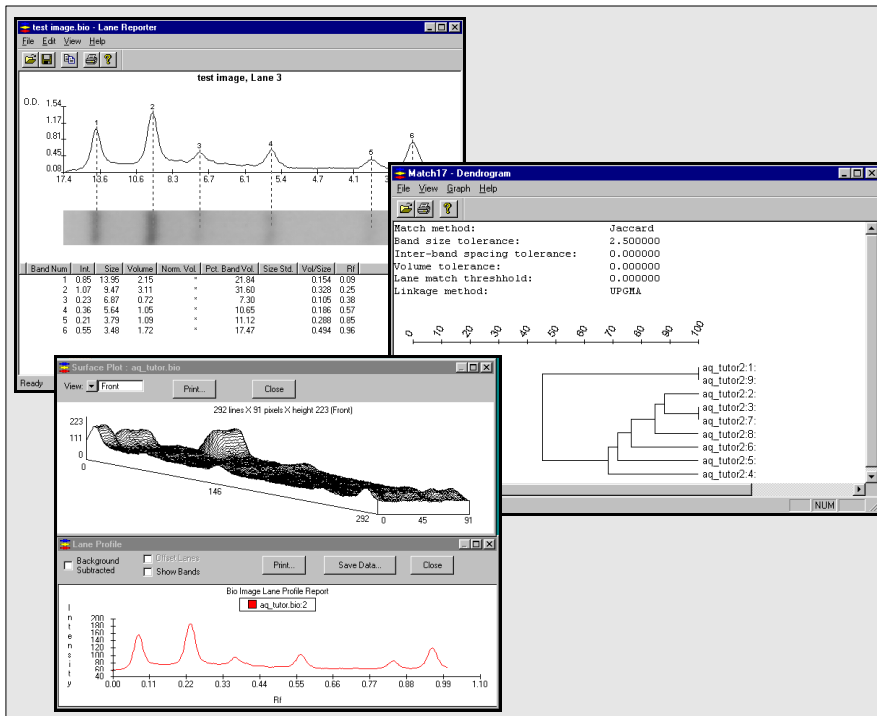


# Advanced Quantifier™ (AQ) for Microsoft® Windows®



Advanced Quantifier software lets you quickly and reproducibly analyze protein or DNA samples run in one-dimensional separations. The software automatically locates lanes and bands. On command, it determines band size and quantity of sample present in comparison to standards or reference lanes.

## Analyze

- Northern, Southern and Westerns
- RAPDs
- STRs (micro satellites)
- Paternity and forensic analysis using RFLPs or STRs
- Strain identification and comparison using RFLPs or STRs
- Other genetic mapping applications using 1-D molecular techniques
- Automatically finds the lanes, then finds and quantifies the bands — even irregularly shaped bands such as biphasic, smiling, or saturated bands. Band edges are based on inflection point analysis and localized background
- Can accept TIFF, FUJI format, JPEG (JPG) and BMP images
- Provides image manipulation functions to crop, invert, rotate, flip and calibrate

## The software

- Size standards use known values to calculate sizes for all unknown bands, using one of five interpolation methods
- Concentration standards convert from intensity to mgs, CPMs or DPMs, using one of four interpolation methods
- Displays band data including peak height, area and volume for the whole band, relative volume and Rf
- Shows side-by-side band comparisons, lane densitometry profiles, 3-D surface plots, and image histograms
- Provides densitometry tool for quantifying bands which are indistinct or smeared
- Includes an on-line manual, tutorial, and demo images

## Features

- Specify, save and load user preferences (e.g., image annotation, report configurations, band-finding and matching parameters)
- Use the known size standards to automatically adjust for gel smiling
- Save frequently used known standards
- Calculate sizes outside the range of your knowns
- Assign labels (e.g., Treatment, Species or Gender) to lanes
- Import lane labels from ASCII files or other external databases

- Create a lane to match against using existing bands
- Enhance your view of images using different colors and zooming
- Display intensity in optical density (OD), counts per minute (CPM), FUJI photo stimulated luminescence (PSL), or Molecular Dynamics units of luminescence
- Choice of three methods for calculating band-sharing frequency
- Build similarity dendograms using one of five clustering techniques
- Use lane labels to match just lanes of interest (e.g., just match control lanes)
- Show matching lanes from any image, for easy verification

### Matching

- Analyze data with powerful data management and database capabilities. Create and search databases and compare band patterns across large populations
- Compare fingerprints or band patterns within a single sample, or across thousands of samples
- Build DNA, RNA or protein-based taxonomy studies for many strains or organisms
- Make genomic identifications in agricultural, forensic, or paternity applications
- Determine matches using MW, inter-band spacing, or volume

### Powerful reporting capabilities

- Customize reports and display them on screen, print, save as a file, or copy to spreadsheet programs
- Illustrate image with circles, arrows, boxes, and text; combine an image with text for publication-quality work
- Show the size or concentration curves
- Overlay multiple densitometry profiles

## System Requirements

### IBM and compatible systems:

Operating System: Windows 10 and Windows 7

## Ordering Information

### Microsoft Windows for PC

Advanced Quantifier  
Catalog #100200

### Available Options include:

Full image and analysis systems including compatible image acquisition devices, CPU, Monitor and printer.

To order, contact:

**Bio Image Systems, Inc..**  
721 Bloomfield, Jackson, MI 49203 USA

**Phone: +1.734.604.2623**  
**Fax: +1.517.788.8869**

**email: [info@bioimage.net](mailto:info@bioimage.net)**  
**<http://www.bioimage.net>**

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