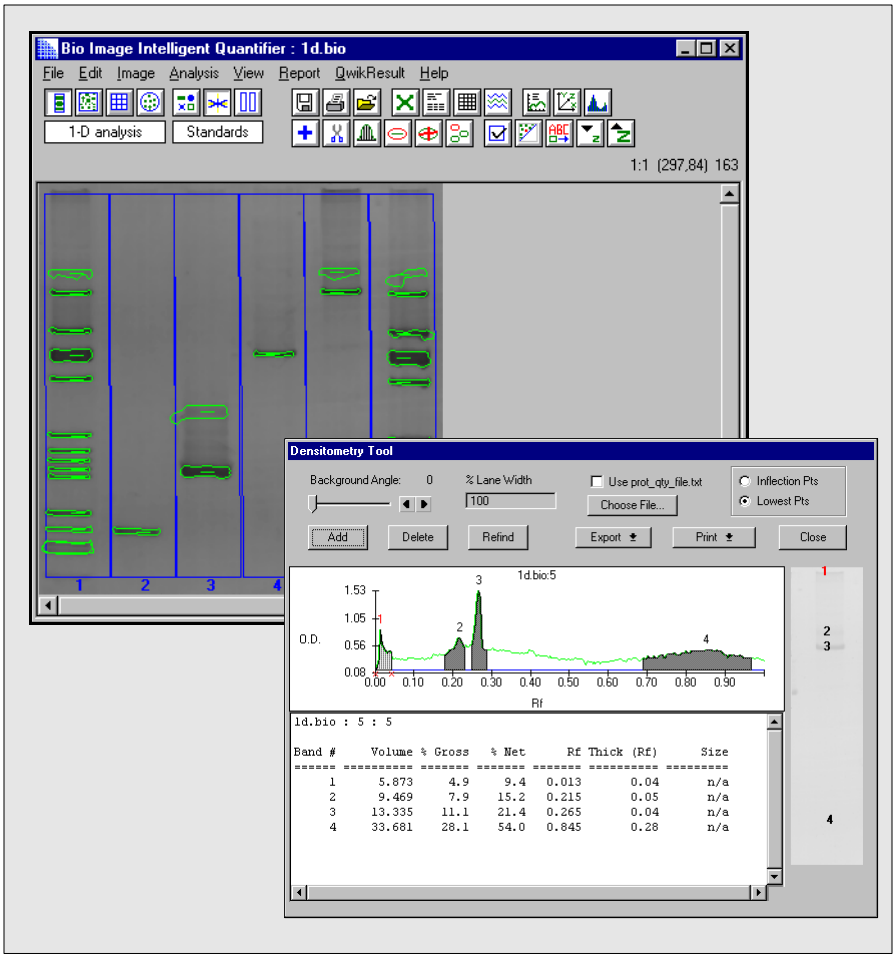
Bio Image Systems, Inc.

Intelligent Quantifier™ (IQ)

for Microsoft® Windows®



Intelligent Quantifier for Windows is a software system for analyzing scanned images of 1-D and 2-D electrophoresis separations, blots, and colonies/plaques. It allows you to analyze gel files obtained from protein, DNA, RNA, or blot samples and report the data.

The Software

- Analyzes protein, DNA, RNA, carbohydrate, colony & blot samples
- Analyzes images from wet gels, dry gels, autoradiograms, blots and photographs
- Allows import from FUJI, Molecular Dynamics and other TIFF-formatted images, and JPEG (JPG) and BMP images
- Displays intensity in optical density (OD), FUJI photo stimulated luminescence (PSL), or Molecular Dynamics units of luminescence
- Allows user to name an individual band, spot, cell, or colony
- Includes an illustrator tool for adding text, arrows, boxes, circles, header and footer information fields onto an image
- Generates band, spot, colony and blot data analysis reports
- Allows user to export images and/or analysis in standard TIFF, Postscript®, and ASCII formats
- Allows user to define the analysis annotation colors and composition
- Includes comprehensive User's Manual hard copy and on-line hypertext
- Provides interoperability with other popular Windows packages (such as Microsoft Word® and Excel®

1-Dimensional electrophoresis analysis

- Automatically detects lanes, finds bands, including irregularly shaped bands, i.e., biphasic bands, "smiling bands," or saturated bands that are substantially wider than the rest of the lane
- Allows the user to vary band detection sensitivity to optimize performance to gel characteristics
- Automatically quantifies bands by defining actual band boundaries based on inflection point analysis
- Subtracts local background

- Provides side-by-side lane profile and band size/quantification comparisons
- Quantifies by whole band and densitometry methods
- Users specify methods of interpolation for standards from three methods: Logarithmic, Linear, and Reciprocal
- Displays single lane density profiles or multiple overlay profiles

2-dimensional electrophoresis analysis

- Analyzes very complex (10,000 spots) gels
- Automatically identifies spots in a user-defined area
- Automatically quantifies spots using 36 radians per spot for accurate and reproducible quantification data
- Determines the local background for each spot
- Users specify Logarithmic or Linear methods of interpolation for MW and pI standards

Colony counting

- Allows colony counting of spots in a user-defined area
- Provides automatic colony identification in a user-defined area
- Analyzes very complex (10,000 colonies) samples
- Determines local background for each colony

Dot/slot blot analysis

- Flexible enough to accommodate Dot and Slot Blot samples, 1 row by 1 column up to 52 rows by 52 columns
- Provides automatic quantification of individual blot cells
- Includes user-definable background calculation (automatic or manual)
- User can normalize all cells to a specified row, column, or cell
- Concentration standards can be assigned to user-selected cells

System Requirements

IBM and compatible systems:

Operating System: Windows 10 and Windows 7

Ordering Information

Microsoft Windows for PC

Intelligent Quantifier Full Suite
(1-D, 2-D, Dot Blot and Colony Count)
Catalog #100100

Available Options include:

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

To order, contact:

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