


one **solution** for all



For analysis of any image, ImageQuant TL offers dynamic functionality:

- automation for fast and consistent results
- streamlined workflow and online help
- advanced algorithms for delivery of accurate results
- editing tools to crop, rotate, and filter images
  - support of multicolor files
  - manual override capability

A single **software** analysis tool for all sample types and all labs

If you consider analysis software to be a luxury reserved for only high-end imaging needs, think again. New ImageQuant™ TL is a complete image analysis solution for every life science laboratory. The software meets a broad range of general analysis requirements for a wide range of samples. For accurate, consistent results and confidence in your analysis, ImageQuant TL also performs image quantitation.

ImageQuant TL supports a range of image formats, including multichannel images. The software complements Typhoon™ Variable Mode Imagers, Storm™ Gel and Blot Imaging Systems, Personal Densitometer™ SI, ImageScanner™ and ImageMaster™ VDS-CL. In addition, ImageQuant TL can be used as a stand-alone package to analyze any 8- to 16-bit grayscale .tif files or various other image formats.

ImageQuant TL is a multi-purpose program that includes comprehensive modules for different sample types. Every module is straightforward, using a simple wizard interface to move through each analysis stage. However, users retain full control of the analytical process. Adjustable parameters and comprehensive editing tools are available throughout the program. And when needed, advice is available from a highly experienced scientific and technical support group.

## 1-D gel analysis module Increased automation and ease of use

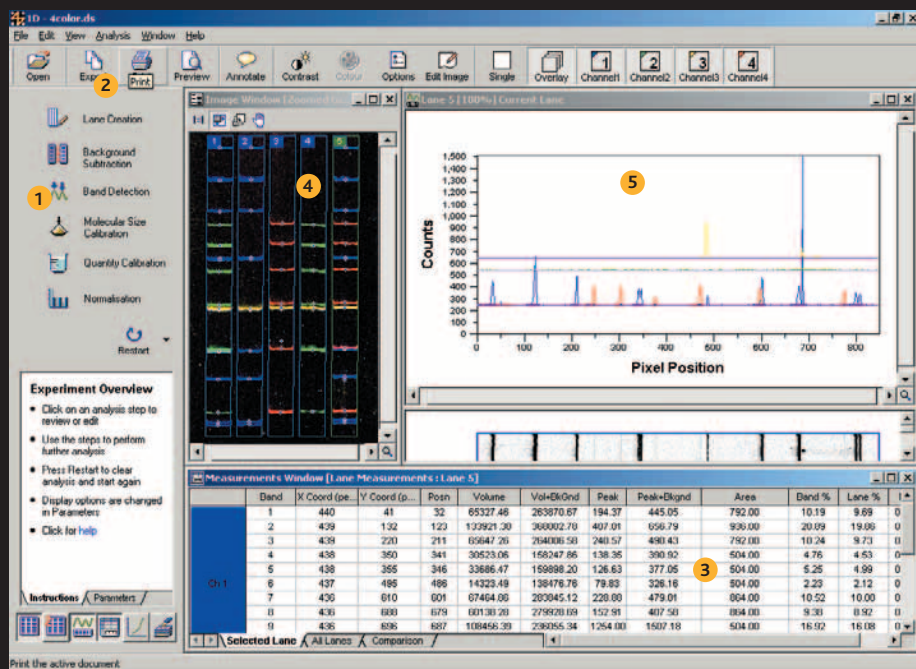
- single click, automatic lane detection, including multi-tiered gel images
  - fully automated bands detection
  - band grimacing and smiling tools for distorted gels
- automatic background subtraction, using a range of methods
  - accurate molecular weight determination
  - quantity calibration and normalization
  - dynamic results table
  - multichannel image analysis (.ds format)

## Array analysis module From simple analyses to quantitative data

- automatic grid detection (up to 1536 independent cells) and background subtraction
  - spot value normalization of a single spot or group of spots
  - presence/absence flagging
- multichannel image analysis capability (.ds format)

## Colony counting module Accurate colony counts and simple 2-D spot measurement within seconds

- colonies detected with a single click
- range of editing tools to draw, erase, remove, split and renumber features
  - background subtraction methods
  - flexible detection parameters



1. Accurate quantity data from 1-D gels. Full control over band detection, back-ground subtraction, calibration and normalization allows "real values" to be obtained from gel images.

2. Data export. Single-click to export data to Microsoft™ Excel if further data interrogation is required.

3. Flexible range of tools enable simple analyses. Data is presented in the Measurements Table which is updated as adjustments to the analyses are made.

4. Supports multichannel images. Comprehensively analyze multichannel (.ds format) images with a full range of analysis and viewing tools.

5. Visualization tools. The image and lane profile windows allow detailed data review.

**Fig 1.** Automatic analysis of 1-D electrophoresis gel images. From molecular weight determination to accurately quantifying band material, obtain fast and accurate analysis results with a single click and full automation.

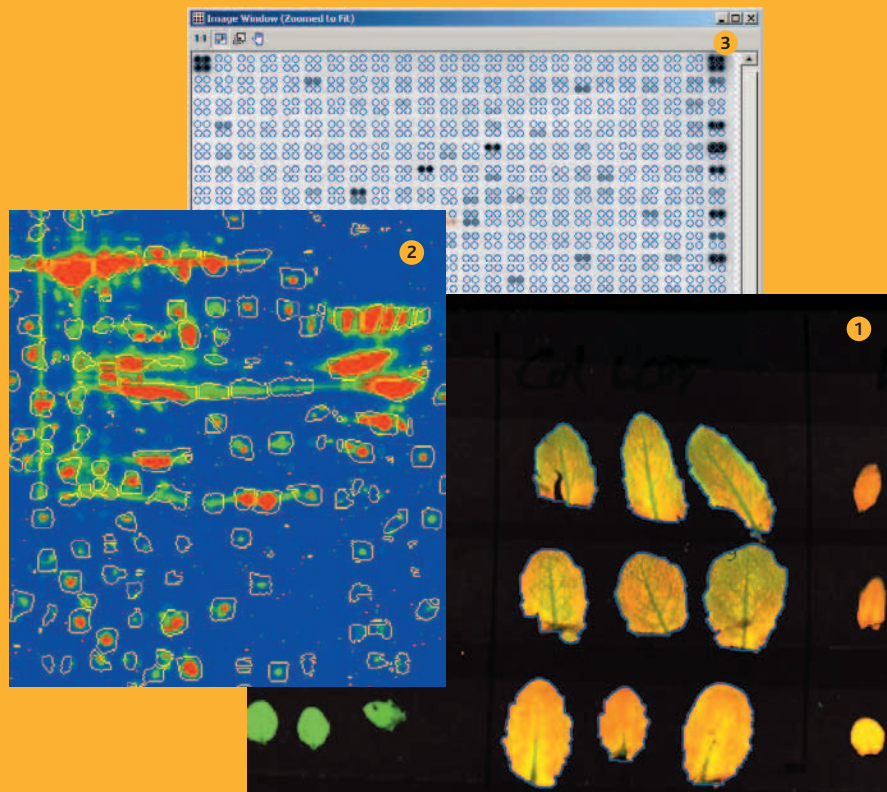


Fig 3. ImageQuant TL is a multi-purpose analysis tool. 1) Leaves expressing GFP were measured in Analysis Toolbox (green = chlorophyll and red = GFP). 2) False color image of a 2-D gel was analyzed in the colony counting module. 3) Membrane array results were quantitated in the array analysis module.

#### Analysis Toolbox

Range of generic tools allow a flexible approach to analysis

- palette of tools including rectangle, ellipse, polygon, freeform, and autotracer
  - auto-trace tool for point and click feature definition
    - range of background subtraction methods
      - wide choice of measurement statistics
- multichannel image analysis capability (.ds format)

#### Additional ImageQuant TL features include:

- zoom, magnify and panning tools
- image manipulation capability in each module
  - tools for contrast and color adjustment
- ability to export data for further interrogation
- ability to analyze any 8- to 16-bit greyscale .tif images and multichannel .ds images
  - comprehensive online help
- calculation of results during analysis and editing process
  - range of viewing options for multichannel images

# ordering information

ImageQuant TL	single user license	63-0050-72
ImageQuant TL	additional user license	63-0050-73
ImageQuant TL	five-user network license	63-0050-74
ImageQuant TL	ten-user network license	63-0050-75
ImageQuant TL	manual	63-0050-82

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