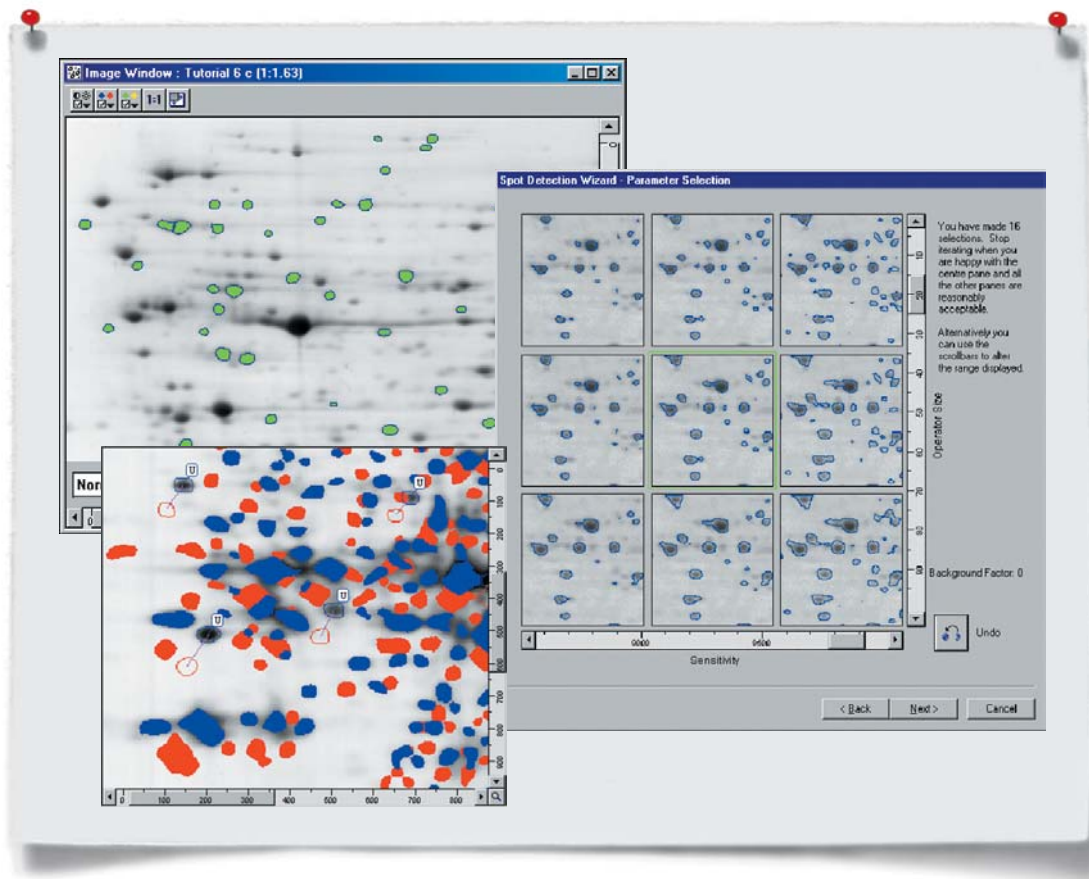


2D Gel Analysis Solutions

HT Analyzer and HT Analyzer 2D Evolution



2D gel electrophoresis is a key technique within life science research, used to separate and analyze protein mixtures. The challenge lies in interpreting and comparing the results of these gels. Genomic Solutions offers powerful solutions to these challenges with the **HT Analyzer** and **HT Analyzer Evolution** software packages.

The proven **HT Analyzer** software is an entry level product for **quick, simple interpretation of 2D gel image analysis**. The newly available **HT Analyzer Evolution** software provides users with **increased automation of 2D gel analysis**, leading to fast, reliable results. The choice of two packages enables each lab to incorporate the degree of automation needed; **HT Analyzer** for lower throughput needs and **HT Analyzer Evolution** for those users who require **increased automation**. In addition to all the power of the basic HT Analyzer, Evolution also includes the **new Cross Stain Analysis feature**, allowing the user to analyze multiplexed 2D gel experiments alongside existing approaches. Users who invest first in HT Analyzer can smoothly upgrade to HT Analyzer Evolution in the future, thus enabling the software capability to grow with your lab's needs.

Key Benefits

- Automated Spot Detection and Image Warping
- Simple, guided set up
- Accurate identification of spots of interest
- Whole Image Warping compensates for gel distortions
- All gels are compared to a single reference gel, avoiding pair wise matching

2D Gel Analysis Software Comparison

Features	HT Analyzer	HT Analyzer 2D Evolution
Cross Stain Analysis. Analyze multiplexed gels	No	Yes
Off-line Editor license included	No	Yes
Additional statistical functions. normal and paired t-test ANOVA	No No	Yes Yes
Spot Detection	Driven by manual parameter input	No parameters required
Combined steps of 2D gel analysis run automatically	No	Yes
Whole image warping	No	Yes
Matching	Based on x,y spot position alone	Assisted by warping
Manual image warping	No	Yes
Elimination of "large noise" e.g. streaks, cracks etc from affecting spot detection processing	No	Yes
Range of defaults for optimal spot detection of images with specific characteristics	No	Yes
3D visualization of 2D gel surfaces	No	Yes
Animated 3D views of sections across a whole 2D gel series	No	Yes

Benefits of upgrading to 2D Evolution

	HT Analyzer		HT Analyzer 2D Evolution	
	Gel A	Gel B	Gel A	Gel B
Initial spot number	765	954	1128	1349
Post Filter spot number	610	706	742	910
Final Spot number	480	455	689	681

Worldwide Headquarters: 4355 Varsity Drive
Ann Arbor, Michigan 48108 USA
Ph: +1.734.975.4800 • Fx: +1.734.975.4808
Toll Free: 1.877.GENOMIC (436.6642)

Europe: Genomic Solutions Ltd. • 8 Blackstone Road
Huntingdon • Cambridgeshire
PE29 6EF • United Kingdom
Ph: +44 (0) 1480 426 700 • Fx: +44 (0) 1480 426 767

The Genomic Solutions Family

GENEMACHINES™**BioRobotics****Investigator™**
Proteomic Systems**Cartesian™**
Dispensing Systems


GENOMIC SOLUTIONS®
A Harvard Bioscience Company