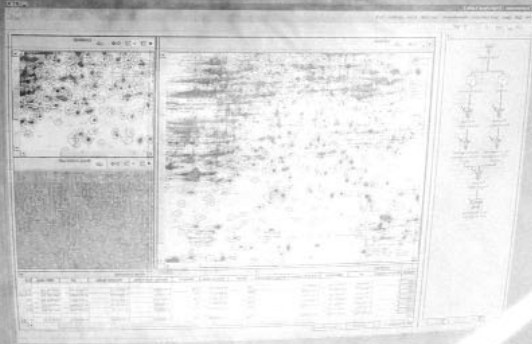


SEEING IS BELIEVING

MOVE YOUR 2D GEL IMAGE ANALYSIS TO A NEW DYMENSION – FAST



D Y M E N S I O N
REVOLUTIONARY 2DGE SOFTWARE

SPOT THE DIFFERENCE

- Simple user interface for easy analysis; Process Flow chart guides you through each step.
- Revolutionary new algorithms accelerate spot detection, spot splitting, gel alignment and gel matching processes – an end to ‘walkaway time’.
- Many automated functions eliminate user intervention.
- Minimal post-editing.
- Editing and manual overrides for personal adjustments.
- Extensive spot detection and filtering facilities give you complete control over parameters.
- 2D/3D images dynamically linked with immediate updates.
- Full results table highlights protein expression changes and transfers co-ordinates to spot pickers.
- Statistical results automatically generated.

D Y M E N S I O N

Dymension overturns the accepted conventions of 2D gel electrophoresis analysis. This revolutionary new software will enable you to complete, at the click of a mouse, all procedures crucial to comprehensive 2D image analysis. Warping, normalisation, spot detection and spot matching – tasks that once took hours to realise – can now be performed within seconds.

R A P I D

Uniquely with Dymension, no discernible time passes during the alignment and warping of two or more replicas. Dymension will detect spots and match – literally within a few seconds.

P R E C I S E

Dymension allows you to perform the critically important processes of spot detection and matching with razor-sharp precision. So you're no longer faced with the hours, days or even weeks of needless further work risked by the use of less accurate software. And while Dymension's processing speeds are unerringly fast, the negligible post-editing required makes the package a pleasure to use.

S Y M P L E

Operation of the Dymension software is also blissfully easy. A simple user interface allows rapid set-up and clarity of view, while Dymension's Process Flow chart will guide you through each step from sample input to results output. The many automated features also mean less user intervention (although Dymension offers a complete range of editing and manual override functions should you wish to make your own adjustments).

Process control

Simple control panel guides you through experimental analysis steps. Use for all 2D gel processing including multiplexed gel sets.

Image warping/registration

Automatic and instant gel warping of replicas and samples.

Protein calibration

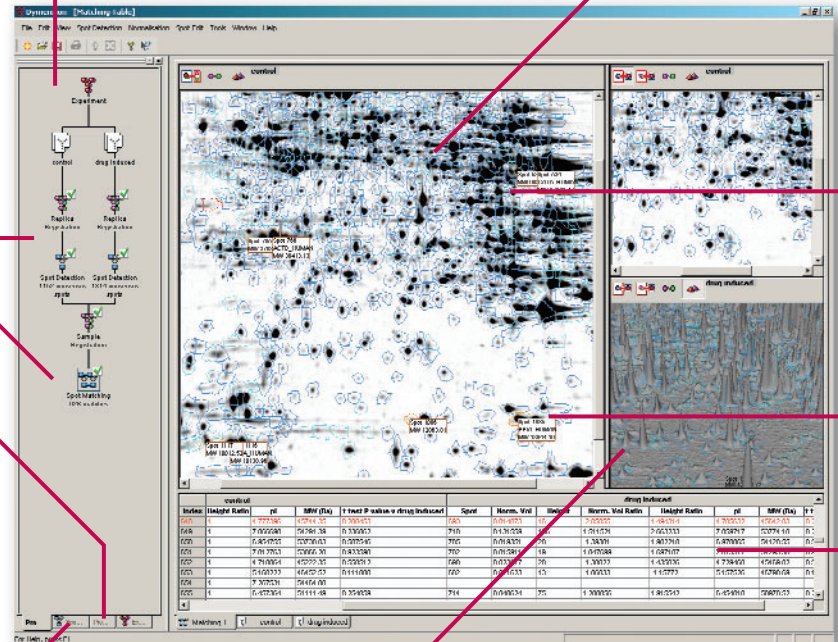
Perform molecular weight and pI calibrations. Query federated protein databases and label spots with protein names.

Spot filtering parameters

Perform spot filtering based on various spot based parameters. Perform manual spot editing where desired. Select number of permissible absences for consensus spot generation depending on number of replicas.

Display

2D and 3D image views that are dynamically linked to results tables. Fully interactive multiple gel display windows include 3D viewing option.



Matching

Automatic spot matching with coloured overlays to aid visual comparisons.

Spot detection

Automatic spot detection and display of consensus spots for gel samples. Automatic splitting of overlapping spots. Optional Gaussian spot modelling.

Normalisation

Total spot volume normalisation performed automatically on image loading. Options provided for alternative normalisation methods.

Comprehensive results

Extensive results table configurable for export to Word™ and Excel™. Data fields include statistical analysis (t-test). Columns can be ordered and significant spots selected for export to robotic spot pickers.

Dymension is available with differing levels of functionality. Upgrading between the packages is simple and you can choose to either buy, rent or join the unique Dymension pay-per-use program to access the best 2D gel analysis package in the market.

Dymension			Features
1	2	3	
■	■	■	Interactive experiment process flow diagram
			Create experiments
■	■	■	Add unlimited number of samples
1 ONLY	■	■	Add unlimited number of replica gels per sample
■	■	■	Automatic background subtraction and noise removal
			Image windows
NO	■	■	Main window and sub windows for replicas within sample
■	■	■	Synchronised zoom on all windows with intensity autoscale
■	■	■	Image warping (registration) - automatic on image loading with vector view
NO	■	■	Manual warp editing
■	■	■	Automatic spot detection and splitting with adjustable parameters
NO	■	■	Region of interest option
NO	■	■	Optional Gaussian spot fitting
■	■	■	Spot editing and filtering
■	■	■	Spot normalisation
NO	■	■	Automatic creation of averaged gels
NO	■	■	Automatic averaged gel warping
■	■	■	Automatic spot matching
			Calibration
■	■	■	pI and Mw spot assignment
■	■	■	Protein list assignment
■	■	■	Spot measurement – volume, area, height
			Data visualisation
NO	■	■	Main window and sub windows for replicas
■	■	■	Histogram window
NO	■	■	Bar chart view with error bars
NO	■	■	3D gel view
■	■	■	Results table for matched spots – columns can be re-ordered
			Internet facilities
NO	■	■	Internet querying of federated databases
■	■	■	Import/Export -clipboard, Word™, Excel™
■	■	■	Export co-ordinates to spot pickers
NO	NO	■	Multiplexing of different stains
NO	■	■	SYPRO Ruby crystal filter