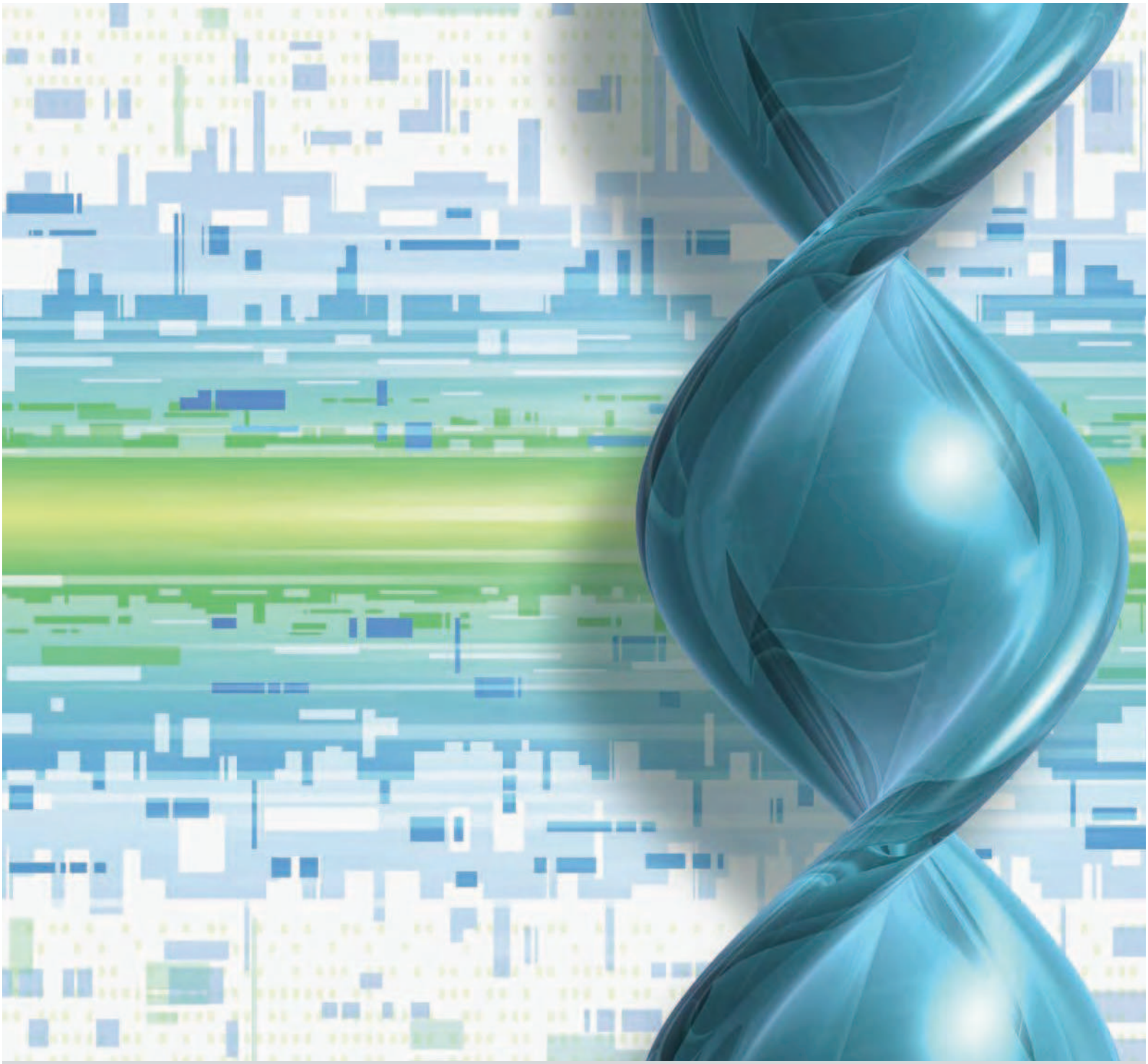
The Digilab Family of Life Science Solutions

DIGI know?

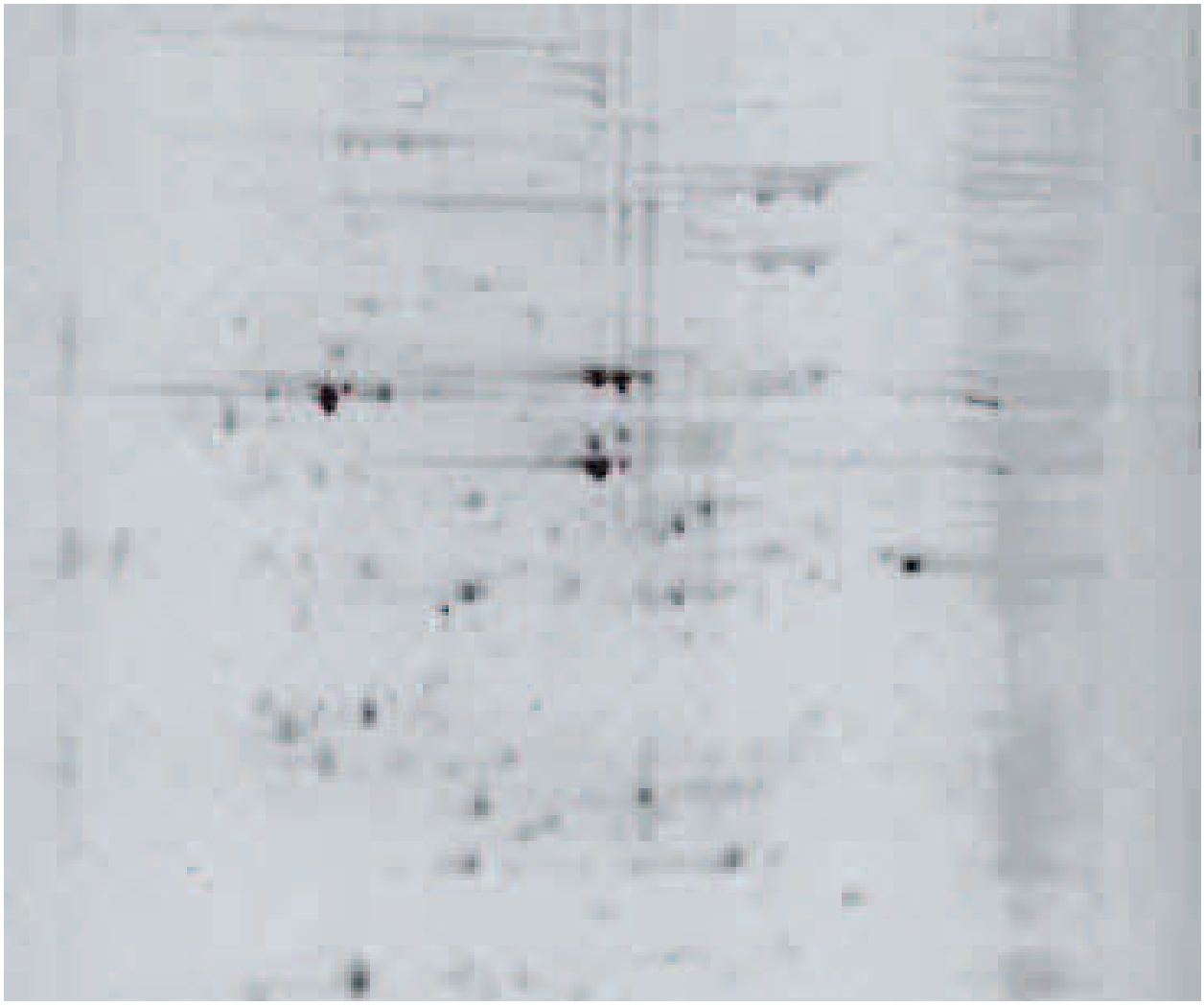
Digilab, Inc. designs, develops, manufactures, and markets analytical instruments, software, and consumables for the global life sciences research, health care, manufacturing, and safety & security markets. Digilab's differentiated products and services, produced from its rich technology base, provide the foundation for a portfolio of applications. These applications serve principally the needs of customers working in the fields of genomics, proteomics, spectroscopy, and diagnostics inclusive of IVD and Imaging. Digilab is in growth markets and is pleased to serve over 2000 customers globally who continue to express demand for its expanding product portfolio.

DIGILAB®



DIGI know?

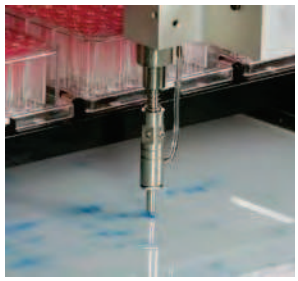
You don't have to settle for unreliable spot excision and harvesting anymore.



PROPIC II

The Digilab Genomic Solutions ProPic II can be used for automated harvesting of protein spots from 1D and 2D gels prior to tryptic digestion and mass spectrometric analysis.

- Direct imaging & picking from 1D and 2D gels stained with all commonly used protein stains
- Seamless integration with DIGE
- Spot-excision of entire lanes from 1D gels
- Easy 'Click & Pick' spot selection
- Full environmental control
- "Best in its class" for:
    - High resolution imaging
    - Total picking efficiency
    - Highly accurate spot excision

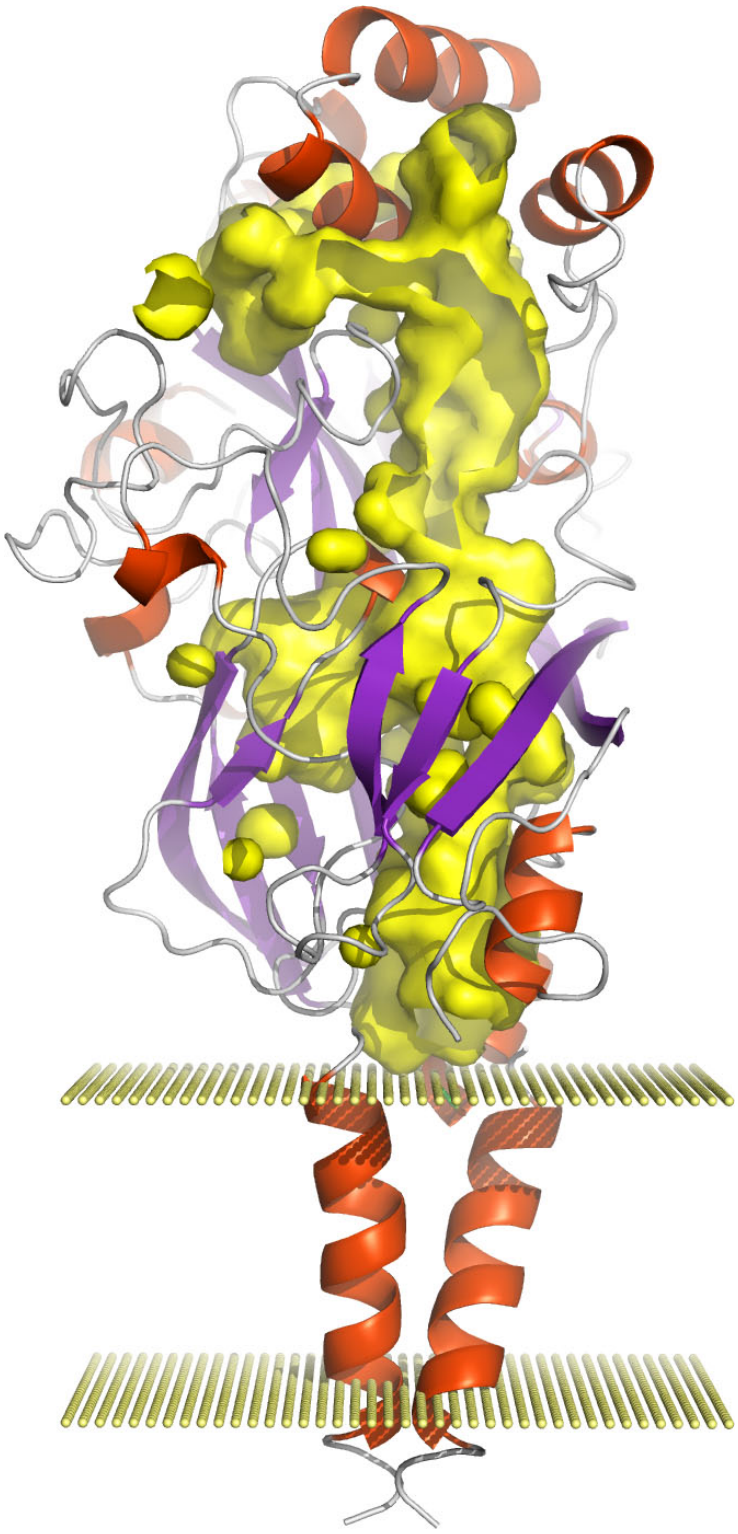


Spot-excision from a 2D gel

If you are looking for the most reliable and accurate way to automate the excision of spots from your protein gels, then the ProPic II is your solution...period.

DIGI know?

Combined, label-free, live cell and multi-mode fluorescent analysis is now a reality using the MIAS2 and eaZYX software from Digilab MAIA SCIENTIFIC



MIAS-2

Combined label-free, live cell and multimode fluorescent analysis is now a reality using the MIAS-2 and eaZYX software from Digilab
MAIA SCIENTIFIC

Brightfield, live cell image capture and analysis:

- Five reader brightfield modes under the hood
- Repeated, full well imaging of the same cultures
- Culture confluence and cell count applications
- Clonality and colony size applications
- Live cell neurite outgrowth application
- Specialty analysis toolkits for model organisms, histopathology, morphology analysis

Fluorescence imaging:

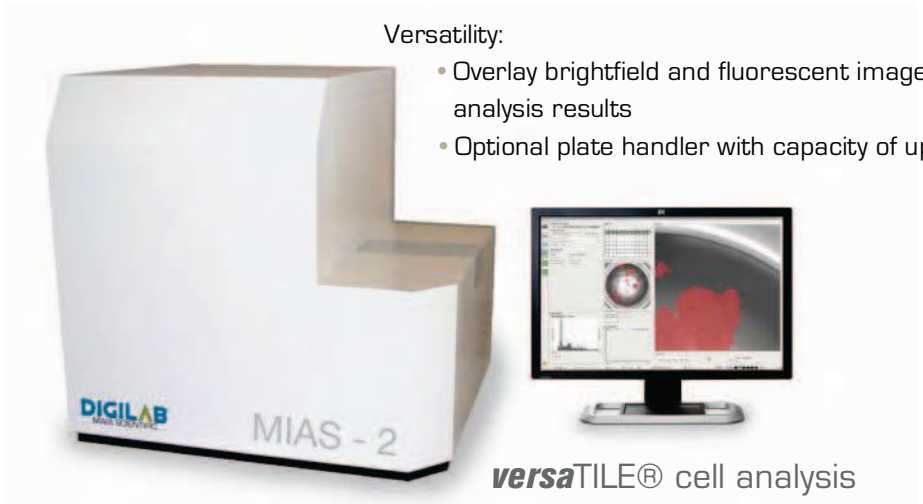
- 4 or 8 channels
- Micronucleus application

Robust Object-Based Auto-Focus:

- Focuses directly on cells in your sample
- Accurate auto-focus on weak fluorescent signals
- On all standard microplate and slide formats

Versatility:

- Overlay brightfield and fluorescent images plus image analysis results
- Optional plate handler with capacity of up to 420 plates



versaTILE® cell analysis

HYDROSHEAR

The Best Way to Fragment DNA for Library Construction

The HydroShear offers the simplest, most reproducible and controllable method available for generating random DNA fragments using a simple, user-friendly software interface. The HydroShear uses hydrodynamic shearing forces to fragment virtually any source DNA, at any concentration, in volumes as small as 40µl to within a two-fold size distribution. For instance, if the desired target size is 2kb, then HydroShear can be calibrated to produce a distribution with 90% of the DNA falling between 1.3kb and 2.6kb - ideal for generating plasmid libraries, or direct sequencing libraries. Furthermore, due to the reproducibility of the HydroShear process, the distribution will be the same each day, even with multiple users.

HIGRO

A High-Capacity Microwell Plate Growth System

The HiGro provides orbital shaking, aeration and accurate temperature control in a compact, high-capacity 4-tower incubation system. This unique combination of features provides excellent culture growth in standard or deep well 96 or 384 microwell plates. Plate handling and storage is made easier by using custom microwell plate cassettes, enabling the high throughput essential for production sequencing and other downstream applications.

4 Microwell Cassettes

HYBSTATION

The Proven, Turnkey Solution to Hybridization Challenges

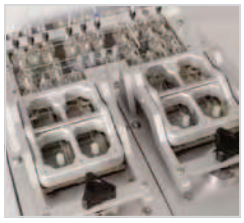
The HybStation provides a system for highly reproducible and sensitive microarray hybridizations, while avoiding the labor and guesswork of traditional manual methods. By combining accurate temperature control, probe agitation and flexible post-hybridization washing, we ensure high quality results. This eliminates the inconvenience and expense of repeating failed experiments - a common problem with manual hybridization techniques. The touchpad-equipped HybStation can process up to 12 slides and run 6 separate protocols simultaneously, which is useful for core labs with multiple users. An external PC can be used to control several daisy-chained HybStations for increased throughput.

HYB4

The Personal Solution to Microarray Hybridization

The Hyb4 uses the same, reliable technology as the HybStation, in a smaller, more affordable package. It has the capacity for 4 microarray slides, and can run 2 separate protocols simultaneously. Hybridization protocols are easily created, edited and executed using our flexible Methods Editor software, via connection to a separate PC. Its small footprint makes it the ideal solution for labs where space is at a premium.

4 slide capacity

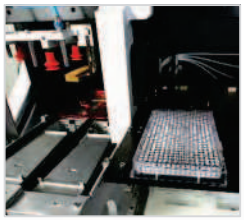


MICROGRID II

A High Throughput Multi-Function Microarrayer

With its innovative platform design, the MicroGrid II offers high capacity and small footprint. Using flexible, easy to use software, it is capable of printing microarrays onto 120 slides or 24 microplates, as well as offering the capability of macroarraying and replication of plate samples. The MicroGrid II is designed for high throughput sample handling with the ability to work from 96, 384, or 1536 well microplates. Up to 24 microplates at a time can be accommodated in the BioBank loading cartridge and a maximum of 10 BioBanks (240 microplates) may be programmed into a single run.

Up to 24 microplates

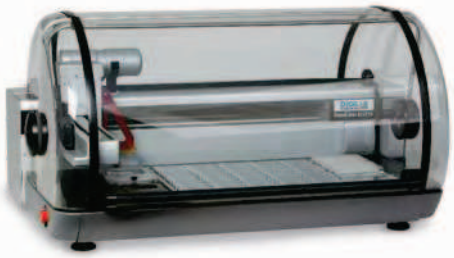


OMNIGRIDACCENT

The Most Efficient High Performance Benchtop Microarrayer

The OmniGrid Accent offers a compact, high performance benchtop solution for printing quality microarrays. The Accent arrays biological samples from up to three 96 or 384 well source plates onto 50 slides or 6 microwell plates using a print head with up to 48 pins. The whisper-quiet operation, superior printing precision, and easy to use software of this high-speed arrayer are the result of state-of-the-art engineering. The transparent enclosure with positive pressure filtering provides a dust-free, humidity-controlled printing environment for any lab or core facility.

50-side platform



OMNIGRIDMICRO

Our Entry-Level Benchtop Microarrayer

The OmniGrid Micro is the ideal solution for any laboratory starting out in microarraying. It has a very small footprint and the capacity to print arrays onto 10 slides or into two microwell plates. The print head can be fitted with either solid or split pins, and samples can be printed from either a 96- or 384-well source plate. The integrated wash and vacuum dry station ensures zero carryover between samples. Arraying is carried out in a sealed, humidity-controlled, dust-free enclosure which minimizes evaporation of precious biological samples.

PROPIC II

Setting a New Benchmark in Gel Imaging And Picking

The ProPic II is a fully integrated system for protein gel imaging and excision of protein spots of interest. Its high resolution imaging system and patented picking technology enable highly accurate and reliable protein spot harvesting. Controlled by easy to use "Click & Pick" software, the ProPic II allows direct imaging and picking from 1D and 2D gels (backed and non-backed) stained with all commonly used fluorescent and visible stains. Seamless integration with DIGE facilitates spot excision directly from 2D DIGE gels. Optional full environmental control and a small footprint complete the package. In one platform, the ProPic II combines gel imaging and picking capabilities to enable better performance and lower operational complexity than the use of separate imagers and pickers, simplifying sample processing for mass spectrometry.

PROPREP II

Improved Protein Digestion and Sample Preparation for Mass Spectrometry

The ProPrep II allows fully automated, high-throughput protein digestion followed by sample preparation for mass spectrometry. Highly accurate liquid handling combined with a temperature controlled flow-through reaction block and reagent chilling enables reproducible in-gel or in-solution digestion in 96-well format. Resulting peptide mixtures are spotted onto MALDI targets or transferred to various sample formats suitable for LC-MS, all in a fully enclosed, HEPA filtered environment. In addition to its accuracy and precision, the ProPrep II offers significant flexibility: up to 4 reaction blocks for various throughput needs, accommodation of most commercially available MALDI targets, customizable protocols, in-gel and/or in-solution digestion in the same run, as well as use of different chemistries and multiple enzymes in the same reaction block.

HONEYCOMB

An Automated Counter Diffusion Protein Crystallization System

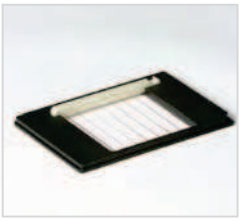
The HoneyComb is an automated benchtop system for simplified set-up, storage and visualization of counter diffusion protein crystallization experiments. This user friendly system enables researchers to prepare up to 96 individual counter diffusion crystallization experiments with no manual capillary manipulation. Preparation and reaction assembly takes only minutes. Experimental trays are stored off line and can be easily analyzed on a viewing plate for crystal screening and scoring prior to X-ray analysis.

HUMMINGBIRD

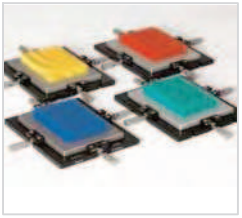
Capillary Based, Plate Replication and Reformatting

The Hummingbird is a multifunction benchtop instrument capable of fast, precise, non-contact transfer of compounds and reagents from master plates to daughter plates for cell- or enzyme-based drug screening assays. Compound libraries or assay reagents can be easily replicated or reformatted to and from 96, 384 or 1536 microplates in the volume range of 25nl-1µl. The Hummingbird is capable of precise consistent dispensing with almost no waste of precious compounds and is easily integrated with automated plate handling systems.

8-capillary crystallization module



Multiple Capillary Cassette Volumes



HUMMINGBIRD Plus

Automated Benchtop, Plate Replicatoion and Reformatting

The NEW Digilab Genomic Solutions Hummingbird-Plus adds plate-stacking automation to the well known Hummingbird® plate copying and reformatting instrument. Its 96 or 384 array capillary tip cassettes, available in the volume range of 25nl to 1000nl, allow accurate, precise, non-contact, and no-sample waste dispensing of reagents or compounds into dry or wet plates. Efficient automated washing of the capillary tips prevent carry-over contamination, and negate the costly use of disposable tips. A complete and cost effective solution.

HONEYBEE

Miniaturization of Protein Crystallization

The Honeybee benchtop protein crystallization systems provide rapid and consistent dispensing of protein and screening reagents onto any protein crystallization plate for vapor diffusion and microbatch techniques. The systems utilize our proprietary synQUAD non-contact dispensing technology for deposition of protein and screening reagents. Our honeybee 961/963 systems utilize a combination of a 96 channel low volume dispense head, and dedicated synquad protein dispenser to allow for rapid processing of crystallization plates, whereas our honeybee 81 and 161 systems allow for complete non-contact dispensing of protein and screening reagents, as well the freedom of being able to generate combinatorial screening libraries.

HoneyBee 963 shown

MICROSYS

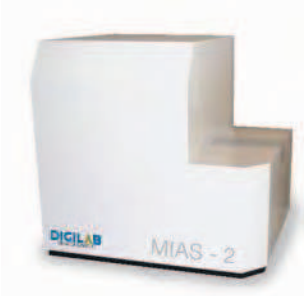
Efficient, Programmable, Accurate Non-Contact Liquid Handling in a Benchtop Instrument

The Microsys synQUAD system is our entry level multi-functional non-contact low volume liquid handler with a dispense volume range of 20nl to 20 µl. Our proprietary synQUAD system provides rapid and consistent low volume dispensing of a broad range of reagent types. The Microsys is used in a variety of applications such as non-contact arraying, assay assembly, protein crystallization, and plate filling for PCR, Q-PCR, cycle sequencing, and primer extension reactions. The system is also capable of bulk filling of reagents and cells into any type of plate format.

MIAS-2

The Most Versatile Microscopic Reader for High Content Analysis

The MIAS-2 is the first high-throughput, high-information microscopy reader with fully automated brightfield and fluorescence microscopic reading. The MIAS-2 covers all of the established fluorescence assay techniques and adds brightfield competency to your research capabilities. Label-free, live cell analysis is now possible. Combining a state-of-the-art EMCCD camera and proprietary object-based auto focusing, the MIAS-2 accomplishes real-time low-light observation far beyond the sensitivity of the human eye. Our eaZYX software controls image capture, automation, and analysis. With an intuitive and user-friendly software interface, and utilizing the principles of "Scale Space" theory we deliver fast, accurate and highly flexible image analysis. Batch reading and analysis of up to 420 plates can be accomplished with the touch of a button.



Application

Genomics

- ☐ Cell Growth
- ☐ Gene Expressio/Differential Display
- ☐ Micro/Macro Arraying
- ☐ Plate Arraying
- ☐ Array Hybridization
- ☐ DNA/RNA Synthesis
- ☐ DNA Sequencing
- ☐ DNA Shearing
- ☐ Clone Production
- ☐ SNP Set-up
- ☐ Genotyping
- ☐ qPCR Set-up
- ☐ TaqMan®
- ☐ Sequencing

Proteomics

- ☐ Protein Identification
- ☐ Gel Imaging
- ☐ Gel Analysis
- ☐ Spot Excision
- ☐ Protein Digestion
- ☐ Sample Prep for Mass-Spec
- ☐ Protein Structure
- ☐ Protein Expression
- ☐ Protein Crystallization
- ☐ Protein Function
- ☐ Protein Arrays
- ☐ Biomarker Discovery

Assays and Screening

- ☐ Assay Assembly
- ☐ Assay Development
- ☐ DNA Based Assays
- ☐ Screening
- ☐ Compound Library Management
- ☐ Non-Contact Nanoliter Delivery
- ☐ Low Volume Diagnostics

High Content Analysis

- ☐ Culture imaging
- ☐ Culture confluence and cell count
- ☐ Clonality and colony size
- ☐ Live cell neurite outgrowth
- ☐ Histopathology, morphology analysis

Instrument

☐ HydroShear	☐ MicroGrid II	☐ ProPic II	☐ Honeybee
☐ HiGro	☐ OmniGrid Accent	☐ ProPrep II	☐ Honeybee X8
☐ HybStation	☐ OmniGrid Micro	☐ Honeycomb	☐ MicroSys
☐ Hyb4	☐ Hummingbird-Plus	☐ Hummingbird	☐ MIAS-2

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