

SINCE 1889



Yamato Scientific
America

2026

PRODUCT DIGEST

LIFE SCIENCE INSTRUMENTS

www.yamato-usa.com

MOLECULAR BIOLOGY

SAMPLE PULVERIZER / HOMOGENIZER

Multi-beads Shocker



An advanced pulverizer / tissue homogenizer designed for rapid processing of up to 24 samples simultaneously, including yeast, bacteria, molds, and tough animal and plant tissues. Utilizing the 3D figure-eight motion principle, along with various tubes, rods and beads, it can pulverize samples from diverse fields within seconds.

NUCLEIC ACID EXTRACTION

VNP-32P (32 throughput)



VNP-96P (96 throughput)



A high-throughput and high-precision nucleic acid extractor used in pair with prepackaged extraction reagents based on silica-coated superparamagnetic beads to extract and purify nucleic acids from the blood, tissue, cells, body fluids, bacteria, viruses, and many other biological samples. It purifies and enriches nucleic acids by utilizing magnetic rods to capture, transfer, and release magnetic beads. With highly automated, fast, and simple workflow, the product is ideal for a wide range of applications in molecular diagnosis and animal disease detection.

MOLECULAR BIOLOGY

PCR / qPCR

FMR-5S Smart Quant System



Multi-Application Precision, Powered by your Touch

Combines a large touchscreen (Screen), smart gradient optimization (Smart), ultra-fast detection (Speed), high sensitivity (Sensitivity), and long-term stability (Stability) to deliver a faster, smarter, and more reliable qPCR experience. With 5-second full-plate detection, a 12.1" HD display, and automation-ready features, FMR-5S is built to accelerate your research with confidence.

Real-Time Quantitative Thermal Cycler FMR3



Real-Time Quantitative Thermal Cycler (96 flux)

Adopts high-quality Marlow semiconductor thermoelectric module, combined with German high-end PT1000 temperature sensor and electrical resistance heating compensation edge temperature control mode, and transmits the fluorescence signals in 96 sample wells in real time to high signal-to-noise ratio through imported high-temperature resistant professional optical fiber. -20°C cold low temperature CCD for real-time detection; 5-color fluorescence channel detection platform is standard at the factory, maintenance-free full-wavelength tungsten halogen lamp of independent technology is used as the excitation light source, and it is operated through an external computer, which is efficient and portable.

MYCOPLASMA DETECTION SYSTEM

HUBBLE Mycoplasma DetectInnova System



Transforms RMM (rapid microbiological method) into a streamlined, fast, fully automated, and easily portable laboratory system. It integrates nucleic acid extraction and real-time PCR assay, allowing a turnaround time of 2.5 hours from sample to result. It requires less than 5 mins. of hands-on time and does not require specific DNA extraction and PCR expertise to operate.

Mycoplasma DetectInnova Cassette

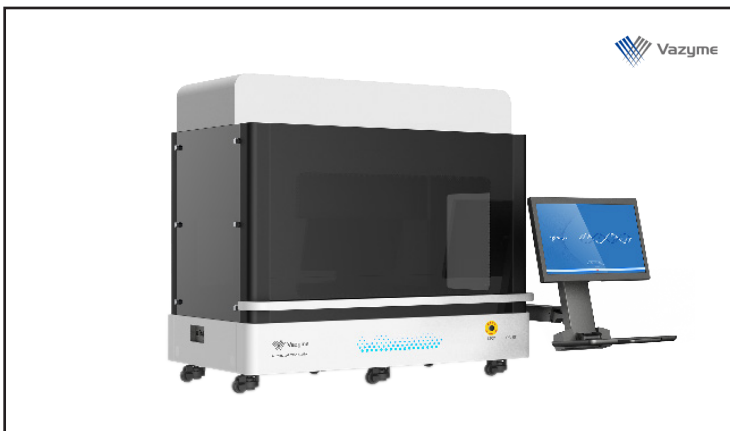


Designed for use with the HUBBLE Mycoplasma DetectInnova System, uses magnetic particle separation technology and real-time fluorescence PCR technology. A closed, disposable system that contains all necessary reagents for nucleic acid extraction, purification, amplification and detection --- enabling an efficient, all-in-one workflow from sample preparation to result analysis.

MOLECULAR BIOLOGY

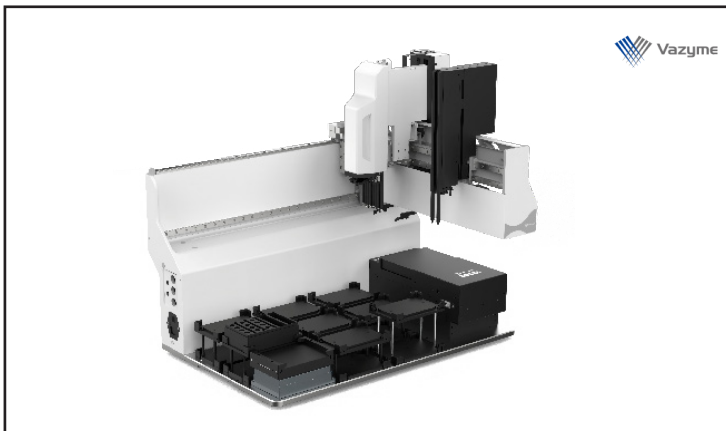
NEXT GENERATION SEQUENCING (NGS)

PANDA Automated Liquid Handling Workstation VNL-96P



A highly efficient, fully automated liquid handling workstation equipped with a **96-channel pipettor** that can run routine high-throughput library preparation workflows and laboratory liquid handling processes. With a stacking system, it enables fully automated operation design and long-term unmanned operation. It is equipped with an Inheco On Deck Thermo Cycler (ODTC) and Inheco thermoshaker module to achieve ideal temperature control. It can explore multiple application scenarios and design custom scripts through a visual script editing system.

PANDA Mini Liquid Handling Workstation VNL-10P



Simplifies sample preparation after extraction and pooling steps before sequencing, enabling a fully automated and streamlined workflow. Equipped with a fixed **8-channel pipettor** and two flexible-channel pipettors, it supports sample normalization and pooling in the full automation workflow, acting as a bridge between extraction, library preparation, and sequencing. It is designed to reliably handle routine high-throughput workflows and liquid handling tasks, reducing human error, accelerating experimental time, and simplifying operations through touchscreen interface.

CELL BIOLOGY

SAMPLE PULVERIZER / HOMOGENIZER

Multi-beads Shocker



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CELL BIOLOGY

SINGLE CELL ISOLATION SYSTEM

isoPick

**Gently isolates and picks your single cells**

Automatically dispenses cells gently into GRID chambers and can flexibly transfer selected single cells into a range of different formats compatible with your downstream applications — including 96-well plates, PCR tubes, and vials for mass spectrometry. Importantly, optional temperature control and ultra-gentle handling of sensitive cells ensures high cell viability during cell isolation and transfer.

isoHub

**Easily selects single cells for isolation**

After plating cells into GRID chambers, you can conveniently visualize cells of interest using the isoHub, which automates navigation through GRIDS and allows you to select chamber coordinates of the single cells you want to isolate. With the isoHub, you can view entire GRID chambers without optical edge effects, ensuring clear-cut identification of single cells. Wireless communication between the isoPick and isoHub also guarantees a seamless and efficient single-cell isolation process.

DROPLET SELECTION AND SINGLE PLATING

Droplet Selector



Combines the sorting of desired water-in-oil (W/O) droplets with our micro-fluidic chip technology and dispensing of single sorted droplets into a 96- or 384-well plate. Droplets can be dispensed one by one.

CELL BIOLOGY

REAL TIME LIVE CELL IMAGING SYSTEM

Celloger Nano



The Celloger® Nano is the most compact and economical system among the Celloger® series. It can wirelessly connect to a tablet or laptop, enabling users to observe and analyze cells from anywhere. With its manual stage compatible with any vessels, it makes it easy to quickly check the state of cells.

Celloger Mini Plus



The Celloger® Mini Plus is a fundamental system for live cell imaging with advanced fluorescence and bright-field microscopy, autofocus, and real-time multi-position imaging technology. It provides essential and user-friendly tools for acquiring high-quality images, serving as a basic system for researching dynamic cellular events, representing a model within the Celloger® series.

Celloger Pro



The Celloger® Pro is the most advanced and latest product in the Celloger® series, offering exceptional image quality and convenience. It enables real-time cell monitoring inside the incubator, allowing seamless observation and tracking of cellular dynamics without disturbing the natural growth environment. With dual fluorescence and bright-field microscopy, multiple markers can be visualized simultaneously, while multi-point time-lapse imaging captures dynamic cellular events at various locations. Providing researchers with state-of-the-art functionalities, it offers unmatched convenience and exceptional image quality, enhancing and expanding the scope of experiments.

Celloger Stack



Celloger® Stack is an automated multi-layer vessel monitoring device, a useful system for large-scale cell cultures. The system is capable of detecting cells growing in a multi-layer chamber and identifying the optimal time for cell harvest. With its motorized camera that can move in all directions, the system captures multiple points within the travel range which can be made into a time-lapse video with a simple click.

CELL BIOLOGY

REAL TIME LIVE CELL IMAGING SYSTEM

Celloger M22



Celloger® M22 is a dual-vessel live cell imaging system that enables simultaneous monitoring of two culture vessels inside the incubator. By capturing both vessels in parallel with synchronized illumination, it ensures consistent imaging conditions and minimizes variability during long-term observation. This configuration supports a wide range of experimental workflows, including control versus treatment studies, dose comparisons, and condition optimization, within a single, integrated imaging system.

Celloger M26



Celloger® M26 High-Throughput Live Imaging System scales up discovery pipelines. It delivers ultra high-resolution images with synchronized illumination to ensure uniform and reliable data across every well.

Equipped with three user-interchangeable lenses and dual imaging modes—brightfield and fluorescence—the M26 enables comprehensive cellular analysis under various experimental conditions. Its compatibility with multiple plate formats and simultaneous imaging of up to six plates makes it an ideal solution for large-scale, uninterrupted cell monitoring inside your incubator.

CELL ISOLATION

Cellpuri Cell Separation System



A disposable chip that concentrates cells without the centrifugation process.

The chip enriches cells using rheological phenomenon inside the microchannels where cell suspension pass through to filter out waste medium and collect enriched cells in the outlet.

CLINICAL STUDIES (ONCOLOGY)

CTC ANALYSIS

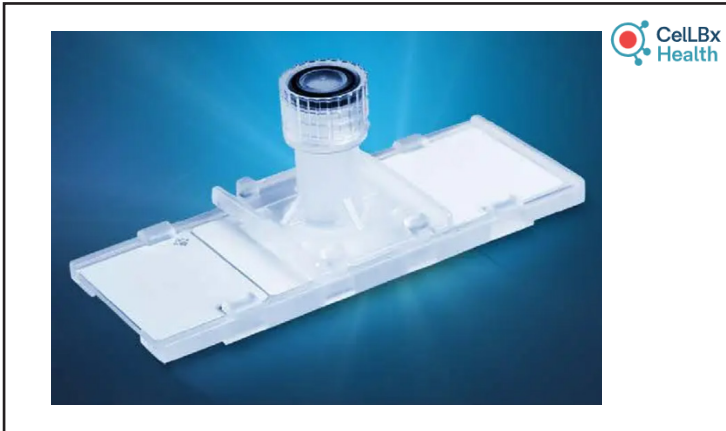
Parsortix® PR1 Instrument RUO (Research Use Only)



The Parsortix platform uses a patented, single-use microfluidic cassette to capture and recover viable circulating tumor cells (CTCs) and CTC clusters from blood based on their larger size and lower deformability.

It can isolate a wide range of cell types, including invasive, treatment-resistant mesenchymal cells and those undergoing epithelial-to-mesenchymal transition (EMT).

CellKeep™ Slide



Enhances retention and maintains the cellular morphology of circulating tumor cells (CTCs) harvested by the Parsortix® system. It ensures optimal transfer of cells onto the surface of a microscope slide.

T-CELL / MONOCYTE SEPARATION

MARS Bar Flex



A flexible cell separation system designed to enhance productivity in RUO labs, MARS® Bar Flex enables flexible and scalable workflows, supporting parallel processing of 1 to 3 samples. With minimal hands-on time and compatibility with various volumes and reagents, it delivers high purity and recovery while preserving cell viability.

PROTEIN STUDIES

ELECTROPHORESIS OBSERVATION DEVICE

RealTime-PAGE View RT-PV-051



A specialized electrophoresis observation device designed for laboratory research that allows scientists to view and track the real-time movement of molecular protein bands inside a transparent gel during polyacrylamide gel electrophoresis (PAGE) without having to stain the gel first. By getting early confirmation of a run's success, researchers can make quicker choices on what next steps or experiments to take.

LED TRANSILLUMINATOR

BluPAD Blue Light Transilluminator



An innovative, dual-wavelength transilluminator that combines high-intensity blue and white LED light modules. Seamlessly switches between 470 nm blue light for fluorescent nucleic acid gels and uniform white light for protein gels (like Coomassie Blue or silver stain) and autoradiography film. The BluPAD eliminates the hazards of UV radiation while delivering exceptional visualization for both nucleic acid gels and protein stains. Its eco-friendly, bottom-up illumination design ensures uniform backlighting, making it the perfect tool for everyday gel analysis, excision, and documentation.

UVPAD Trio LED 365/302/300nm UV Transilluminator



A mercury-free UV-LED excitation system offering 302 nm, 365 nm, and high-power 300 nm wavelengths for uniform, adjustable illumination. With fast start-up, long LED life, and high energy efficiency, it supports a wide range of fluorescent dyes and stains. Compact and easy to use, it features three-level brightness control and safety power-off. Ideal for nucleic acid and protein analysis in molecular biology, proteomics, clinical research, and educational laboratories.