SINCE 1889

Yamato Scientific America

2026 PRODUCT DIGEST

LIFE SCIENCE INSTRUMENTS

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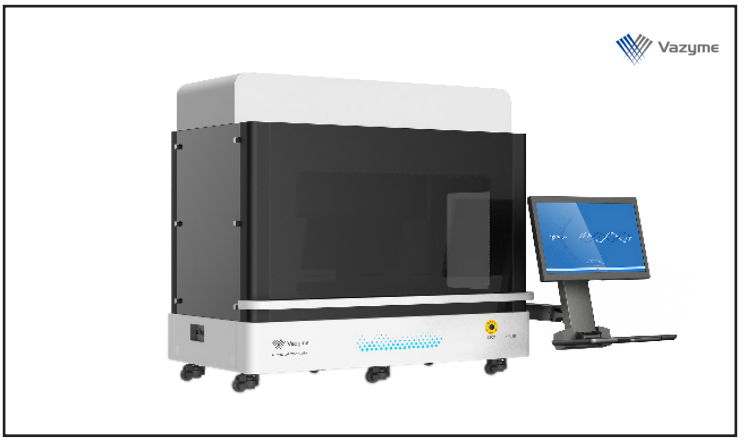
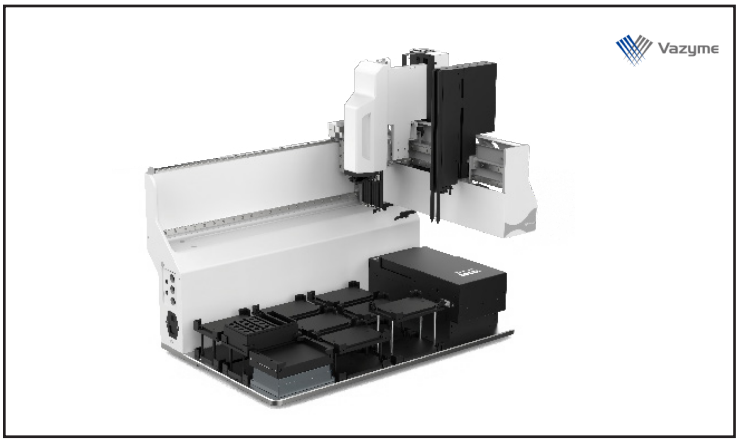
AUTOMATED LIQUID HANDLING WORKSTATIONS

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

AUTOMATIC NUCLEIC ACID EXTRACTION SYSTEM

VNP-32P (32 throughput)

VNP-96P (96 throughput)

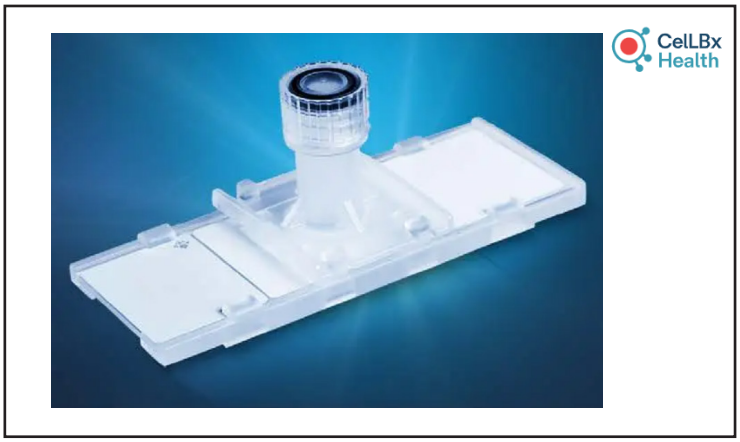
A high-throughput and high-precision nucleic acid extractor used in pair with prepackaged extraction reagents based on silica-coated superparamagnetic beads to extract and purify nucleic acids from the blood, tissue, cells, body fluids, bacteria, viruses, and many other biological samples. It purifies 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

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 tumour cells (CTCs) harvested by the Parsortix® system. It ensures optimal transfer of cells onto the surface of a microscope slide.

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.

MYCOPLASMA DETECTION SYSTEM

AdvSHENTEK 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 turn-around 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 AdvSHENTEK 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.

PULVERIZER / TISSUE 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.

REAL-TIME FLUORESCENCE QUANTITATIVE PCR SYSTEM

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.

REAL TIME LIVE CELL IMAGING SYSTEM

Celloger Mini Plus

An automated live cell imaging system with advanced fluorescence and bright-field miscroscopy, autofocusing, and real-time multi-position imaging technology. It provides essential tools for acquiring high-quality images and obtaining accurate research results. It features a fixed stage, while the internal camera moves to capture images of the cells at multiple positions. Because the vessel and cell sample remain stationary, the cells are maintained in a stable environment that supports consistent growth.

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.

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 handlingof 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 visualise 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.

REAGENTS

Reliable Quality, Reliable Results

Various reagents available for DNA/RNA extraction, reverse transcription, PCR, SYBR qPCR master mix, multiple probe qPCR premix, SYBR qPCR master mix, and single cell NGS workflow.

WATER QUALITY METER

Portable Multi-Item Water Quality Meter

pH, electrical conductivity, turbidity, temperature, salt content, TDS (total dissolved solids), seawater specific gravity, water depth, dissolved oxygen, and ions (F-, Cl-, NO3-, Ca2+, K+, NH4+), up to 9 items of the water depth can be measured simultaneously and continuously. Continuous measurement at a water depth of 100m is possible.