

产品手册

PRODUCT BROCHURE

同襄科技腾飞之盛举 共筑民众健康之保障

Collaborate to Fuel Technological Progress, Unite to Safeguard Public Health

宁波胤瑞生物医学仪器有限责任公司
NINGBO INARRAY BIOMEDICAL SYSTEMS CO., LTD



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宁波胤瑞生物医学仪器有限责任公司成立于2018年6月，总部位于浙江慈溪，在中国科学院上海分院慈溪产业化中心拥有GMP生产车间。公司专注于高端分子生物学及医学检测仪器设备、配套试剂耗材的研发与制造，主营产品包括全自动芯片式数字核酸扩增分析仪、全自动核酸检测分析仪、现场化核酸快速检测仪及相关配套耗材与检测试剂盒，致力于为精准医学、健康管理、食品安全、农林畜牧等领域提供核酸检测整体解决方案。

Founded in June 2018, NINGBO INARRAY BIOMEDICAL SYSTEMS CO., LTD is headquartered in Cixi, Zhejiang Province. We operate a GMP-compliant manufacturing base at the Cixi Industrialization Center affiliated to the Shanghai Branch of the Chinese Academy of Sciences.

Focused on the R&D and manufacturing of advanced molecular biology & medical diagnostic instruments, as well as matching reagents and consumables, our core product portfolio covers fully automated chip-based digital PCR analyzers, fully automated nucleic acid testing (NAT) systems, on-site rapid nucleic acid testing devices, and supporting test kits. We deliver fully-integrated NAT solutions serving precision medicine, health management, food safety, agriculture, forestry, animal husbandry and other key sectors.



全自动核酸检测分析仪
Fully Automated Nucleic Acid Testing Analyzer



全自动核酸检测分析仪
Fully Automated Nucleic Acid Testing Analyzer



现场化核酸快速检测仪
On-Site Rapid Nucleic Acid Testing Device



知识产权 Intellectual Property

授权发明专利 **25** 项，实用新型专利 **3** 项，外观专利 **1** 项
25 invention patents, 3 utility model patents and 1 design patent granted



体系认证 System Certification

ISO13485医疗器械质量管理体系认证
Our manufacturing facility holds ISO 13485 Medical Device Quality Management System Certification



产品注册 Product Registration & Certification

CarryOn系列仪器及多款试剂盒
获欧盟CE认证
The CarryOn series analyzers and multiple supporting test kits have obtained EU CE certification



企业荣誉 Corporate Titles

国家高新技术企业
宁波市“专精特新”企业
National High-Tech Enterprise (awarded 2024)
Ningbo Specialized, Refined, Unique & Innovative Enterprise (certified 2025)



科研专项 Key Scientific Research Projects Undertaken

承担国家重点研发计划
“科技冬奥”专项
Special Project of National Key R&D Program – Winter Olympics Science & Technology Initiative

入选科技部
“科技助力经济2020”
重点专项
Key Special Project of MOST: Technology-Driven Economic Growth (2020)

入选宁波“3315系列计划”
创业团队
Ningbo “3315 Talent Program” High-Level Entrepreneurial Team

入选宁波“科技创新2025”
重大专项
Major Initiative of Ningbo “Science and Technology Innovation 2025”



全自动核酸检测分析仪 CarryOn P1000Q

Fully Automated Nucleic Acid Testing Analyzer

国内首台自主研发全自动QPCR分析系统

The first domestically independently developed fully automated qPCR analysis system in China.

核心技术

Core Technologies

微流控芯片技术，集成样本处理、磁珠法核酸提取、QPCR检测全流程。

Integrated microfluidic chip technology: realizes sample pretreatment, magnetic bead nucleic acid extraction and qPCR detection in one workflow

五色荧光检测通道（405nm/485nm/520nm/638nm/670nm）。

5-color fluorescence detection channels (405nm/485nm/520nm/638nm/670nm)

超声振动混合与磁珠吸附转移技术。

Ultrasonic mixing & magnetic bead adsorption transfer technology



五大优势

Core Highlights

小巧：手持设计，内置电池，适于野外现场

Compact & Portable: Built-in rechargeable battery, ideal for field on-site testing

简便：一键启动，无需专业实验技能
User-Friendly: No professional laboratory operation skills required; one-click full-process automation

快速：样本进，结果出，全程小于60分钟

Ultra-Fast Turnaround: Sample-in to answer-out within 60 minutes

安全：全封闭一次性芯片，无气溶胶污染风险

Biosafe Design: Disposable fully enclosed chips prevent aerosol pathogen diffusion and cross-contamination

准确：标准QPCR流程，结果与实验室设备一致

High Consistency: Standardized nucleic acid extraction, purification and qPCR workflow with identical accuracy to laboratory reference methods



四个“一”体验

Product Advantages (4-S Features)

一步操作：放入芯片，点击运行，完成检测

Single Load: Simply insert the chip and press one button to launch full testing

一张芯片：所有反应在封闭芯片内自动完成

Single Array: All biochemical reactions are completed automatically inside a fully enclosed microfluidic chip

一台设备：等同于一座标准PCR实验室

Single Machine: Equivalent to a complete standard PCR laboratory

一键结果：从样本到报告，无需人工干预

Single Keystroke: Zero manual intervention from sample loading to result output



三大应用特性

Application Value

Anytime

随采随检：极大提高检测时效
Supports anytime

Anywhere

现场检测：摆脱环境、设备、人员及冷链限制

Anywhere testing without relying on professional lab environments, dedicated equipment, trained operators or cold chain logistics

Anyone

人人可检：经简单培训即可操作

Greatly improving the timeliness of NAT and lowering site and personnel thresholds

产品升级

全自动核酸检测分析仪 CarryOn P4000Q

Fully Automated Nucleic Acid Testing Analyzer

CarryOn P4000Q内置四个独立反应模块，每个反应模块均采用高性能温控模块和五色荧光激发及检测系统，使每个反应模块可单独运行不同的检测项目。

配套检测试剂盒采用全封闭微流控芯片式设计，所有反应所需试剂已经提前预装在芯片内，仅需一步加样操作即可在一小时内全自动完成样本核酸提取纯化及QPCR反应流程。



全封闭微流控体系，可在普通室内条件下使用，无需专业PCR实验室场地

Equipped with a fully enclosed microfluidic system that can run under ordinary indoor conditions without dedicated PCR laboratory construction

设备操作简单，无需专业PCR操作人员

No professional PCR technicians required for operation

四个检测单元，实验程序单独控制，各检测单元可随时单独使用控制，实现样本本来随检

Four independent detection modules with separate programmable workflows, enabling flexible on-demand batch testing



应用领域

Application Fields

： 临床医疗、大众保健、基础科研等

Clinical medicine, public health, fundamental scientific research

现场化核酸快速检测仪

On-Site Rapid Nucleic Acid Testing Device

可自动完成样本核酸提取、纯化和实时荧光PCR扩增检测全过程。与检测专用微流控芯片配合使用，用于检测标本中的核酸靶点，其嵌入式软件会自动判断结果并提供检测报告。

Automatically completes full workflow including sample nucleic acid extraction, purification and real-time PCR amplification. Paired with proprietary microfluidic chips, it identifies target nucleic acid sequences in specimens; built-in embedded software automatically interprets data and generates standardized test reports.



硬核实力

Product Strengths

手持轻量，内置续航，户外即用。
一键触发，无须实验专长。
小于60分钟，样本至结果闭环。
全封闭芯片，杜绝气溶胶污染。
严格QPCR，数据对标实验室标准。

Lightweight, portable with built-in battery for outdoor field deployment
One-click startup, minimal professional training required
Sample-to-report output within 60 minutes
Fully enclosed chip design eliminates aerosol contamination risks
qPCR test results fully consistent with laboratory benchmark standards



一触即达

Core Operating Advantages

操作一步：芯片装载，按键启动。
单片集成：提取扩增检测，封闭完成。
单机替代：一台设备，等同PCR实验室全套职能。
全程自动：样本录入至报告输出，无须人工介入。

All extraction, amplification
Detection and sealing steps are integrated on a single chip.
One device covers all functional modules of a standard PCR lab with fully automated operation without manual intervention.



场景破界

Scene Advantages

随时：采样即刻检测，消除等待窗口。
随地：不受场地、冷链、设备约束。
随人：基础培训，即可独立操作。

Anytime: Instant sample testing without waiting
Anywhere: No limits on venue, supporting facilities or cold chain
Anyone: Operable by personnel after basic training



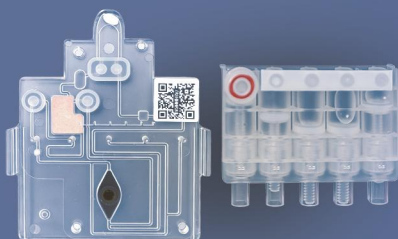
应用领域
Application Fields

生物多样性、生物安全、畜宠养护等

Biodiversity monitoring, biosafety screening, pet medical testing and more

一芯在手，检测无忧

One Chip in Hand, Reliable Testing



全预置试剂的封闭式微流控芯片。它与CarryOn®系列及现场化核酸快速检测仪配套使用，构建了真正摆脱实验室限制的掌上核酸检测平台，为现场即时诊断(POCT)提供高精度、高效率、高安全性的解决方案。

Featuring fully preloaded reagents, this closed microfluidic chip is compatible with CarryOn® series and field rapid nucleic acid analyzers. The integrated system forms a lab-free palm-sized nucleic acid testing platform, providing high accuracy, high efficiency and enhanced safety for POCT.

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