

Bioer Technology

Introduction



Company Profile

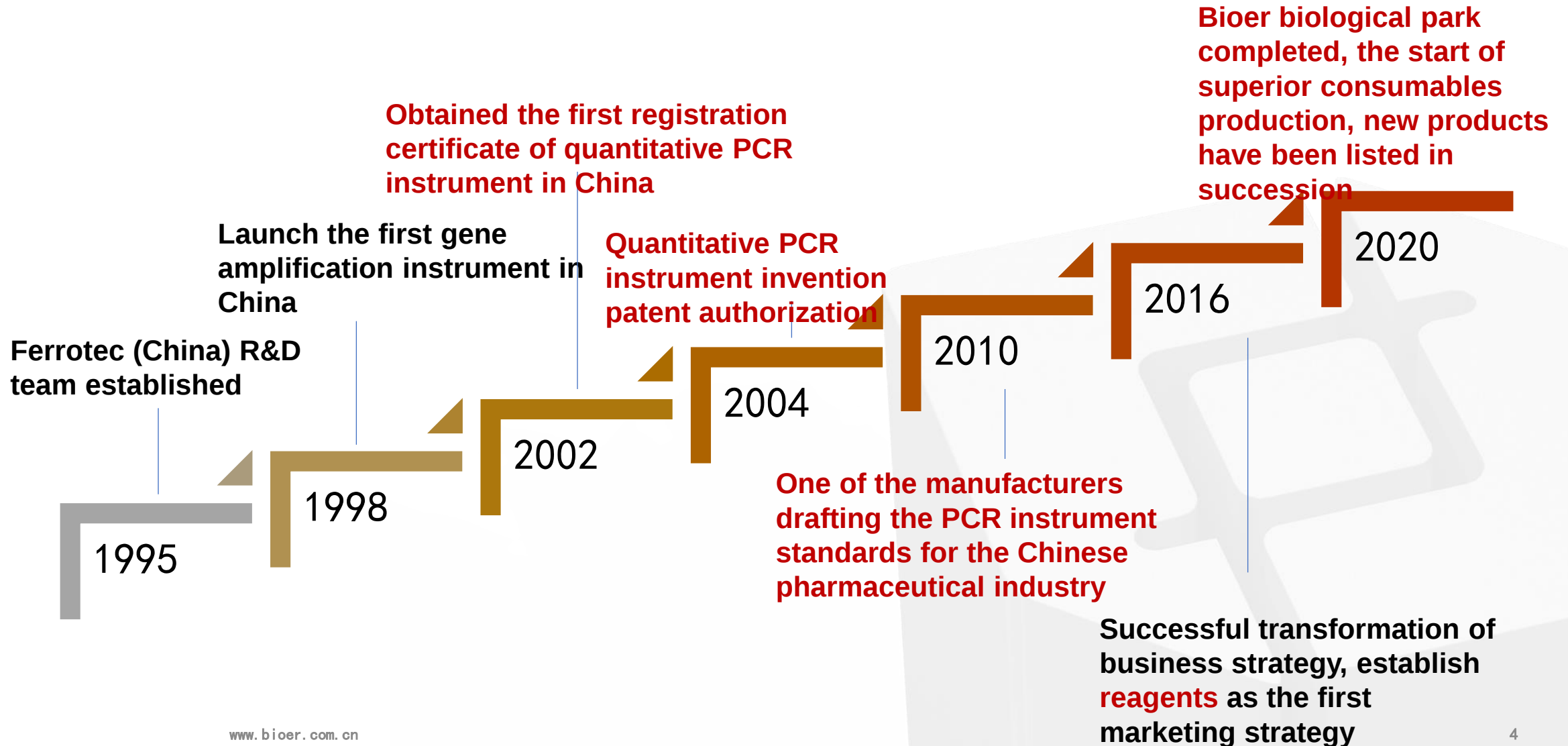
01

Company Profile



Hangzhou Bioer Technology Co., LTD is a molecular diagnosis supplier based on a series of products and services. It has more than 600 employees and focusing on the PCR field for more than 25 years. In 2002, Bioer obtained the registration certificate of China quantitative fluorescent PCR detection system, achieving a milestone breakthrough in the PCR field in China. Bioer Technology has developed into a world-famous PCR industrial base, providing customers with a full set of solutions in the field of life science research and application, including instruments, reagents, consumables, raw materials etc.

Development Path



Honours



杭州博日科技股份有限公司
HANGZHOU BIOER TECHNOLOGY CO., LTD



国家高新技术企业



国家第四批专精特新企业



浙江省博士后工作站



浙江省首套产品证书



杭州市数字经济百强企业



MDSAP管理体系认证



杭州市高新区工业龙头企业



校企联合研究中心



院企联合研究中心

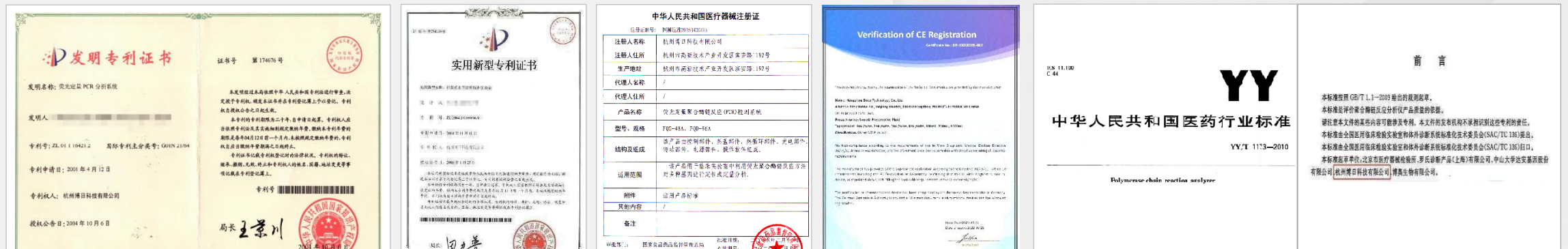


年度中国体外诊断产业领军人物

• Patents

263 domestic and foreign medical device registration certificate

100 patents



qPCR

PCR LAB

Registration Certificate
For Medical Device

CE

PCR instrument pharmaceutical
industry standard

R&D Team

Bioer Technology has established an international research and development team with nearly 100 personnel, and established research institutions such as the Zhejiang Bioer Molecular Biotechnology Research Institute, the Zhejiang University Bioer Technology Joint Research Center, and the Zhejiang Provincial Center for Disease Control and Prevention Bori Technology "Research Center for Infectious Pathogeny and Detection Key Technologies."

20+

Years R&D
experience

150+

R & D
Team

> 150 millions

Three year R&D expenses

Zhejiang province

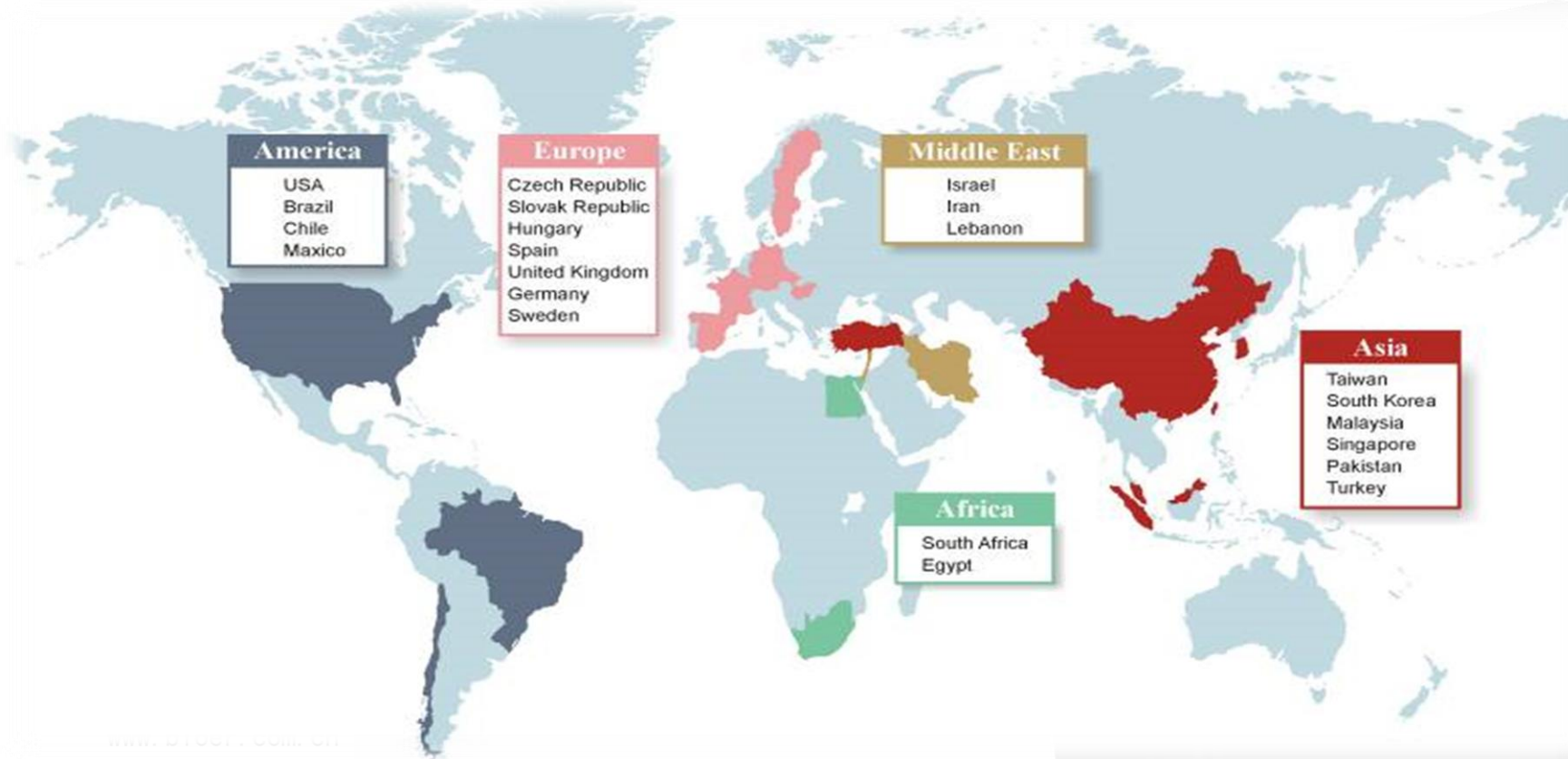
Molecular Biotechnology
Research Institute


中心实验室
Laboratory Center


研发
Research & Deve
省级高新技

Sales system

- Dual sales system for channel dealers & large project customers
- Reagents and instruments are independent and cooperate with dual sales teams
- Relying on strong manufacturing advantages, increasing OEM/ODM projects to promote new growth points
- The global sales network covers 121 countries and regions



• Customer service

Focusing on regional key cities in China, the service network radiates across the country .



Pre-Sales

Application Support



technical support



Online guidance



after-sale service



杭州博日科技股份有限公司
HANGZHOU BIOER TECHNOLOGY CO., LTD



• Partner

 杭州博日科技股份有限公司
HANGZHOU BIOER TECHNOLOGY CO., LTD

Enterprise	 华大基因	 HybriBio 凯普	 圣湘生物 Sansure Biotech	 Liferiver 之江生物	 Vazyme	 TIANGEN	 东北制药 NORTHEAST PHARM
Hospital	 中国人民解放军 总医院	 上海交通大学附属 瑞金医院	 中山大学附属 肿瘤医院	 浙大二院	 同济大学附属 东方医院	 浙江大学附属 第二医院	 复旦大学附属 中山医院
Agriculture	 新希望集团	 muyuan 牧原	 正邦集团 ZHENG BANG GROUP	 WENS 温氏	 正大集团 CP GROUP	 双汇集团 SHINEWAY GROUP	 汉世伟 Han@wine
Institute	 迪安诊断	 金域检验	 BerryGenomics 贝瑞和康	 Nevogene 诺禾致源	 和合诊断 HHI Medical Diagnostics	 博奥检验 CapitalBio MedLab	 CTI 华测检测 CENTOF TESTING INTERNATIONAL
Others	 中国疾病预防控制中心	 中华人民共和国 海关总署	 中华人民共和国 公安部	 World Health Organization	 ZHEJIANG UNIVERSITY	 中国动物疫病预防控制中心	 NIFDC 中国药检

Product Introduction

02

• Product introduction

NPA, qPCR series



Automatic PCR analysis system



PCR/ Dry Baths/ PCR Laboratory



Instruments

Consumables



Reagents



Nucleic acid extraction and purification kit

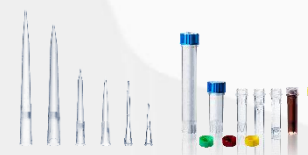


Raw materials

Raw materials for in vitro diagnostic



Plates, tubes, tips



Total solutions

• qPCR systems



2002年 / LineGene
China's first qPCR



2014年 / LineGene 9600 Plus
The first generation of ultra
high sensitivity qPCR



2018年 / Quant Gene 9600
Brand new top detection qPCR



2021年 / A1600
**Automated Nucleic Acid
Purification and Real Time PCR
System**

2009年 / LineGene 9600
**Launched 96 tubes
qPCR**



2015年 / LineGene K Plus
touch screen version of qPCR



2019年 / LineGene MiniS
16tubes qPCR



2023年 / A9600
**Automated Nucleic Acid Purification
and Real Time PCR System**



Nucleic Acid Purifier



杭州博日科技股份有限公司
HANGZHOU BIOER TECHNOLOGY CO., LTD



GenePure



GenePure Plus



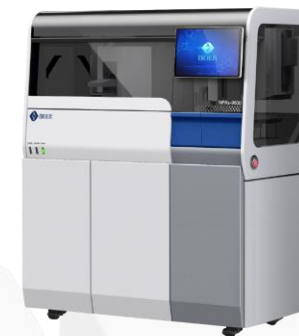
GenePure Pro 32



GenePure Pro 96



GenePure Pro 16H



GenePure Pro 96S

2003

First automatic nucleic acid purification instrument by magnetic bead method

2010

Launched a new touch screen automatic nucleic acid purification instrument

2018

96 plate automatic nucleic acid purification instrument

2019

Max system nucleic acid purification instrument

2020

96 plate automatic nucleic acid purification instrument with sample prepared

2021

Reagent Product



Nucleic acid purification reagent

- DNA purification reagent
- RNA purification reagent
- DNA/RNA purification



PCR reagent

- DNA series reagent
- RNA series reagent
- qPCR reagent



Professional field detection reagents

- Human pathogen
- Food safety
- Aquatic pathogen
- Animal pathogen

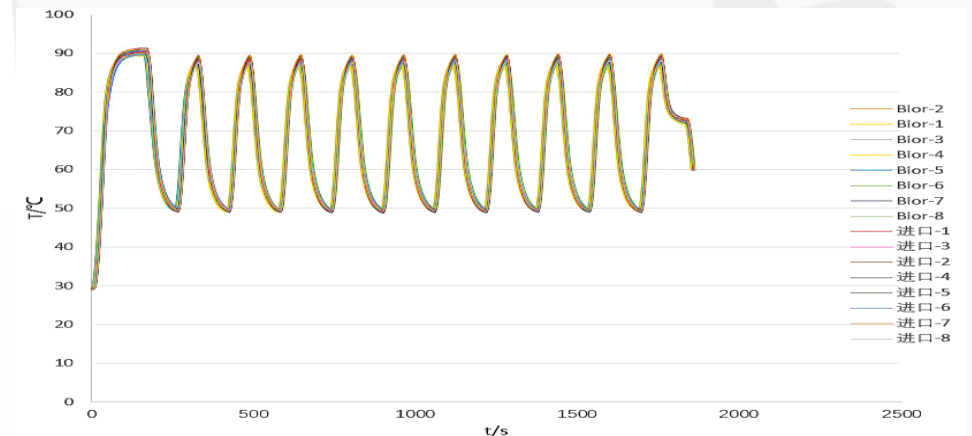
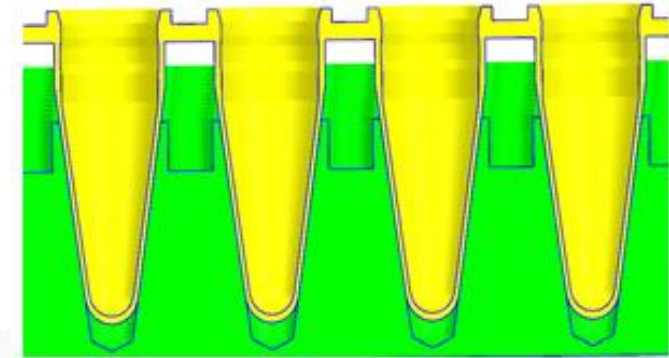
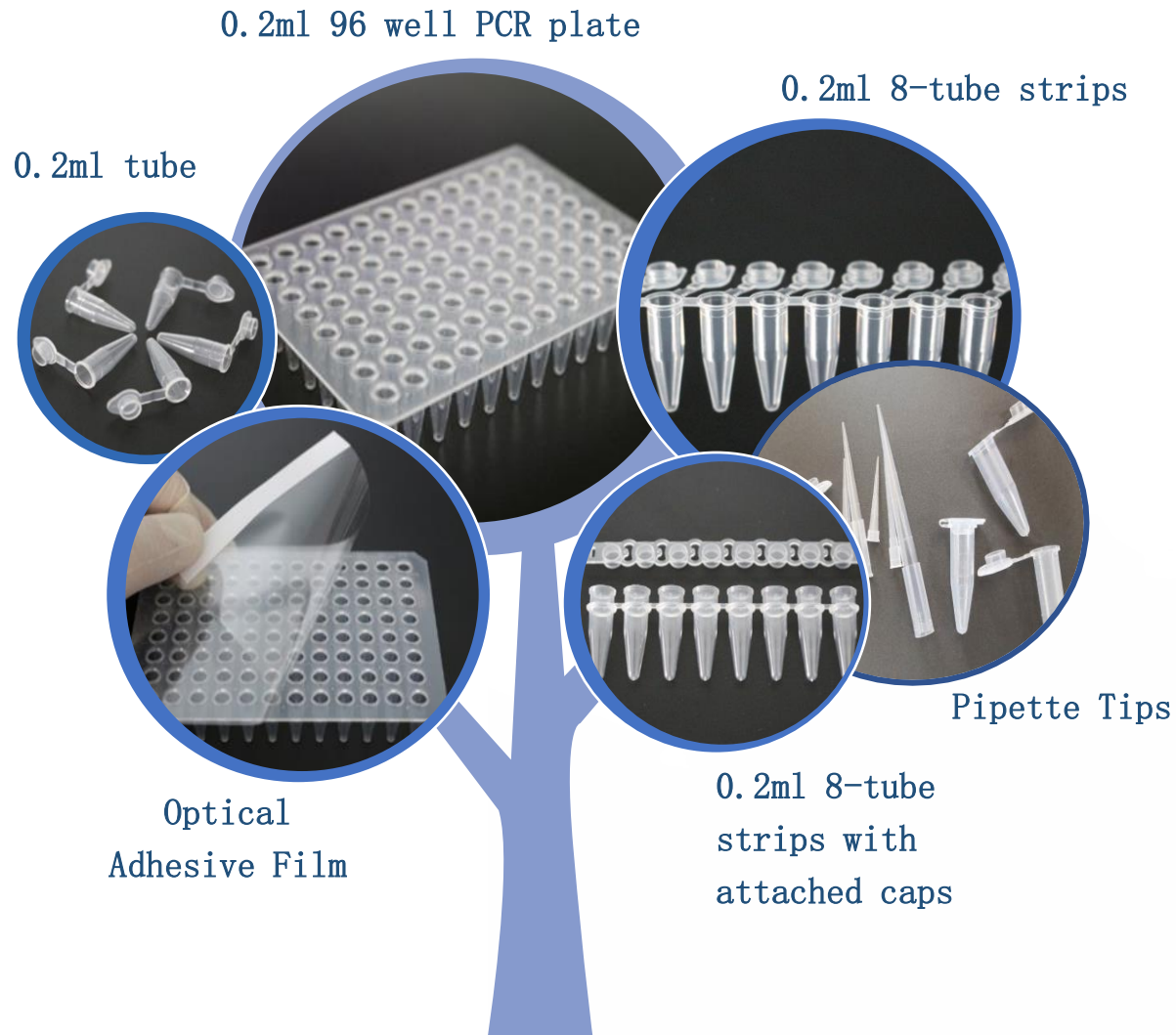


Viral transport media

- Sample preservation fluid
- Viral transport media
- Cell cryopreservation

More than 15 years of production history, automatic production line, export to Europe and the United States developed countries, 8 minutes of nucleic acid extraction, instrument reagent integration

Consumables



The thermal conductivity of Bioer Technology PCR consumables is the same as that of imported brands

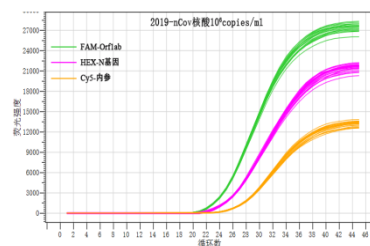
Application Field

03

Whole Solution of Nucleic Acid Test

 杭州博日科技股份有限公司
HANGZHOU BIOER TECHNOLOGY CO., LTD

Sample processing and
transportation of tissues and



Result

High purity
nucleic acid

Fluorescence
quantitative PCR
detection

Fast

Column
extraction

Machine
extraction



Application field



Shijiazhuang



Beijing



Shanxi Nucleic Acid Testing Base



Chengdu



Tianjin Nucleic Acid
Testing Base



Jilin Nucleic Acid Testing Base

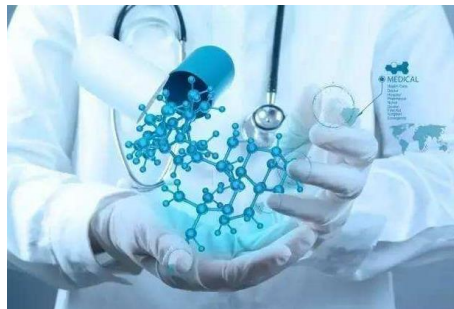
Application field



杭州博日科技股份有限公司
HANGZHOU BIOER TECHNOLOGY CO., LTD

Clinical diagnosis

Infectious disease
detection



Genetic disease testing
Tumor gene detection

Food safety

Identification of adulteration of meat
provenance in food
Detection of
food-borne pathogens
Detection of genetically modified in
food



Animal disease prevention

African swine fever detection
Bovine and sheep virus detection



Pet medical



Environmental microbiological detection



CDC

Virus detection

Scientific Research in Universities

Disease mechanism
research
Medicine development

Public security system, Forensic

Individual identification
Kinship test

Inspection and Quarantine

Tuberculosis exclusion
Flora
identification

Aquaculture

Fish and shrimp
virus detection



Key Products

04

Molecular POCT Analyzer

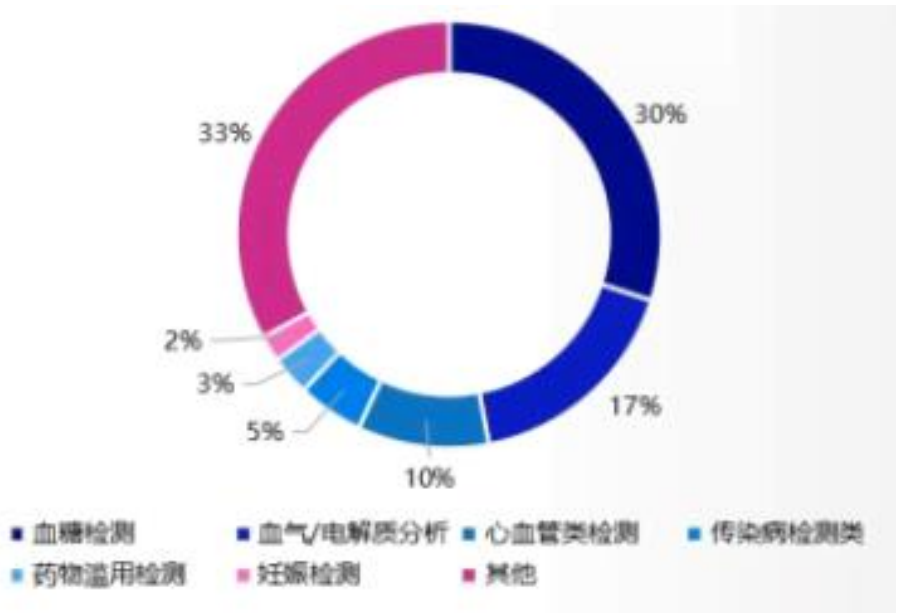
DILIGENT DETERMINATION

OPEN UP AND CREATE EXCELLENCE



2016-2025年中国POCT市场规模预测 (单位: 亿元)

数据来源: TriMark、中国医疗器械蓝皮书 (2021)、健康界研究院分析



China's POCT industry presents a rapid development trend: the annual composite growth rate of China's POCT market size from 2016 to 2021 is 20%. In 2021, China's POCT market size will reach 11.16 billion yuan, and it is expected that the market size will reach 23.14 billion yuan in 2025

1. It can achieve "sample input and result output", reducing manual operation steps in the experimental operation process
2. Molecular POCT includes test instruments and kits, which must generally be used together.
3. The instrument is simple, and some functions of the instrument need reagent kits to complete.

The new molecular POCT analyzer designed and developed by Bioer based on micro-fluidic chip technology uses unique centrifugal rotation (acceleration, deceleration, positioning) to make the liquid flow and mix, which can complete the whole process of nucleic acid extraction and amplification detection of tested samples in the micro-fluidic chip, making experiments simpler, faster and more accurate. The instrument structure is simple, easy to carry, no debugging is needed, plug-and-play.-The user-friendly software interface saves you from complicated experimental settings.





Instrument name: Automatic Molecular POCT Analyzer

Instrument model: Mchip-2000A

External dimension (mm): 350x300x350

Instrument weight (kg): 15

Pricing: temporarily unavailable

Detection throughput: 2

Detection channel: 4 channels (450nm-750nm)

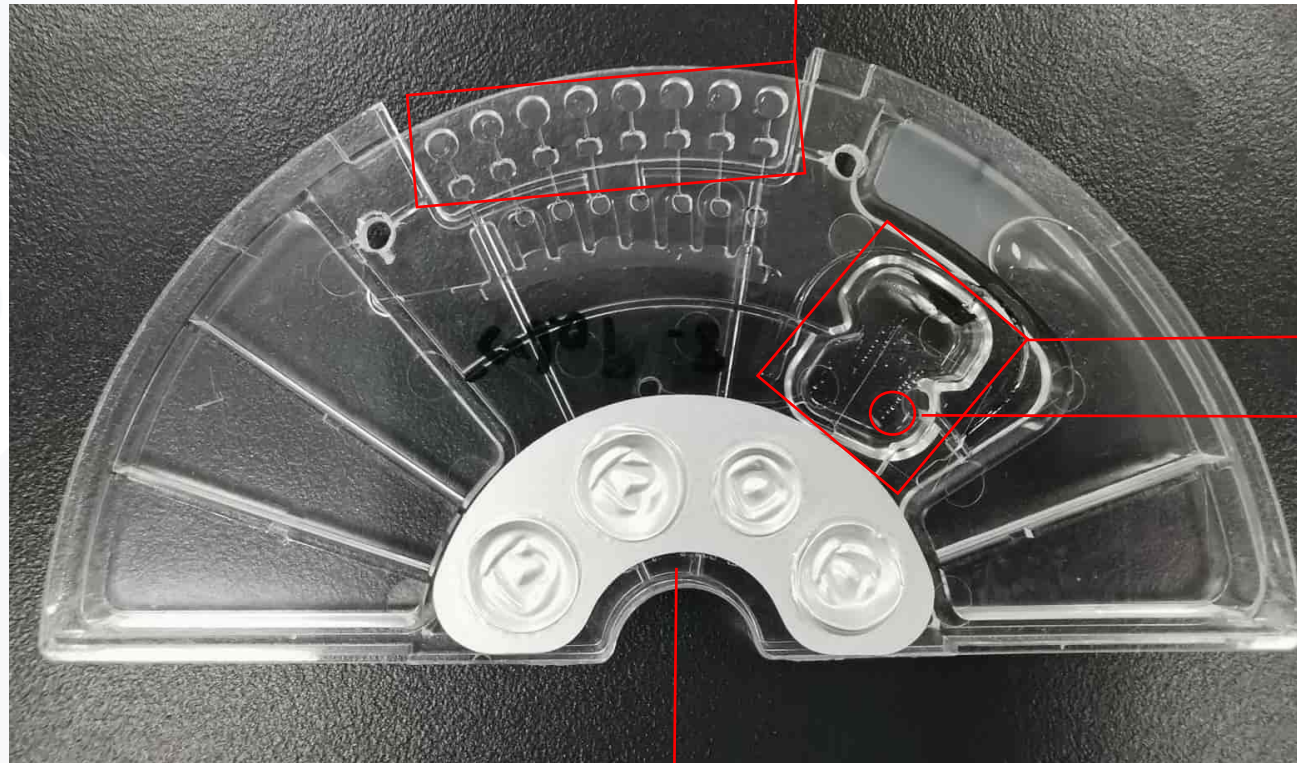
Temperature ramp: 4.6 °C/s

Detector: PD

Fluid drive: centrifugal rotation (0-80Hz)

注：外观样式存在变动可能，以实际为准

PCR amplification region (lyophilized reagent)



Nucleic acid extraction zone
(containing magnetic beads)

Loading sample

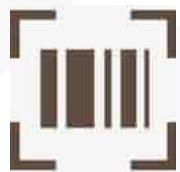
Lysis buffer

Proteas

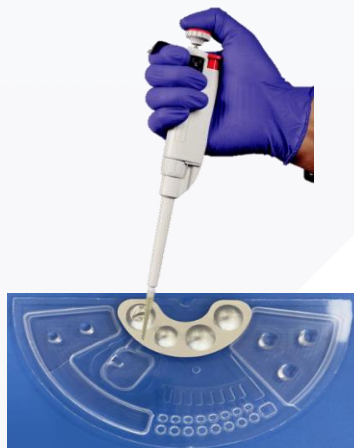
Elution buffer

Wash buffer

1. Scan microfluidic chip



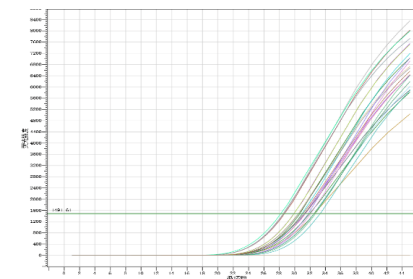
2. Loading sample



3. Running



4. Report results



features and advantages

Minimizing Contamination Risk



Nucleic acid extraction and qPCR reactions are enclosed in a disposable microfluidic chip to minimize the risk of aerosol contamination.

Multiplex PCR Detection



4-channel, up to 32 multiplex detection; No standardized laboratory requirements required



Fully-automated

The entire process is fully-automated based on a microfluidic chip pre-loaded with all the reagents required.



Easy to operate

The user only needs to add the sample into the chip and the system does the rest.

02

Digital PCR System

- The project develops a microfluidic chip and compatible instruments, including a centrifugal based droplet generation instrument, a PCR amplification, and a chip reader
- **droplet generator** : Microdroplets are generated by centrifugal force generated by rotating the motor, and the droplet generation time is about 2 minutes;
- **PCR**: PCR amplification is achieved through temperature cycle control, with an amplification time of about 50 min (40 cycles) and independent temperature control in four zones; The instrument should have the following functions: it can amplify 16 independent chips (or a single disk chip), and the temperature rise and fall rate should reach 2 °C/s;
- **Chip reader** : Number of imaging sheets 20-40, Switching between chips 1-16 by rotating the motor
- **Chip**: Based on microfluidic technology, water in oil droplets are generated by centrifugation. A single chip generates about 30000 liquid droplets, 1-16 chips run a time;
- Image analysis software: chip reading software realizes chip imaging control, selects imaging chips and imaging channels, etc; The image analysis software implements four channel image analysis, through which effective droplet determination, positive and negative droplet statistics, fluorescence intensity distribution, and sample concentration;

03

96 pro Real-time PCR system



FQD-96D real-time quantitative PCR analyzer uses fluorescence real-time detection to analyze the amplification of PCR templates, that is, adding fluorescent genes to the reaction system, using fluorescence signal accumulation to monitor the entire PCR process in real time, and finally conducting quantitative analysis of unknown templates through standard curves. The PCR detection system is an in vitro diagnostic medical device that can be used for quantitative analysis of copy numbers of different genes in clinical laboratories using fluorescence polymerase chain reaction.



升级版



This instrument is improved and upgraded on the basis of the original instrument 96PLUS (FQD-96A).

1. Continue to use the bottom scan method of 96 PLUS;
2. The optical path has been updated, using six spatial optical channels for simultaneous scanning (8s), and using PD instead of PMT for optical signal reception to reduce costs;
3. The thermal cycle components basically follow the 96 PLUS technology, still using heat pipe radiators, but have made improvements to the TE sheet, increasing the edge area and power;
4. The movement mode of the hot cover components follows the 96 PLUS electric inlet and outlet and downward pressure modes, but the structure is simplified;
5. Touch screen control, high performance;
6. Optimize temperature performance

核心性能	
仪器型号	FQD-96D (别名: 96Pro; 博日内部产品型号: BYQ6A22)
检测通量	96
适用耗材	0.2ml的96孔板、8 联管、单管
荧光通道数	6 (预留8个通道)
适用荧光染料	通道1: FAM、SYBR Green I; 通道2: HEX、VIC、TET、JOE; 通道3: TAMRA、CY3、NED; 通道4: ROX、Texas Read; 通道5: CY5; 通道6: CY5.5;
反应体系	1~100μL
样本检测重复性	CVct ≤ 1%
样本线性	r ≥ 0.99
操作方式	单机运行: 利用仪器10寸触摸屏及软件系统可新建实验并运行; 网络运行: 网线直连: 仪器通过网线与PC连接后, 利用电脑上的应用 软件实现运行;
热盖自动开/关	热盖可通过触摸屏控制实现自动开/关
断电保护	具有断电后再供电时实验自动恢复运行的功能
数据传导	可通过U盘导入、导出实验数据
仪器外形尺寸	300*560*380mm
净重	20kg

温控系统	
热盖温度范围	设置温度: 85-110°C (可调, 最低控制温度: 室温+10°C)
热盖控温精度	≤ ±3°C (达到105°C后1分钟开始) (内控指标2小时2%)
热盖温度均匀性	≤ ± 3°C (达到105°C后1分钟开始)
模块温度范围	0-100°C (最小设置刻度: 0.1°C)
控温方式	模拟试管控制 (tube)
控温技术	热电制冷器
温度精度	≤ ± 0.1°C (分别达到55、72、95°C后30秒开始) (温度显示精度)
温度波动度	≤ ± 0.2°C (分别达到55、72、95°C后30秒开始)
温度均匀性	≤ ± 0.3°C (95°C时)
升/降温速率	≥ 3.0°C/s (平均)

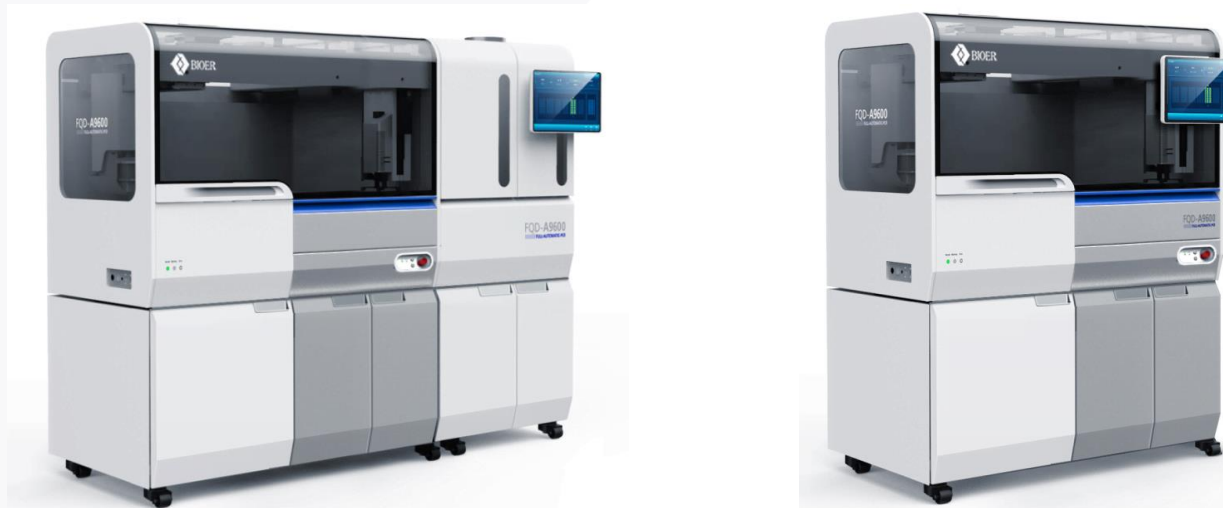
光学系统	
光源	高亮长寿命免维护LED光源
检测器	光电二极管 (PD)
检测位置	底部激发, 底部扫描
检测方式	6个荧光通道同时逐孔扫描, 无荧光边缘效应
检测时长	8秒内完成6个荧光通道96个孔位的全部检测
激发光波长	通道1: 470nm 通道2: 525nm 通道3: 570nm 通道4: 635nm 通道5: 680nm 通道6: 545nm
检测光波长	通道1: 520 nm 通道2: 565nm 通道3: 615 nm 通道4: 685nm 通道5: 720 nm 通道6: 585nm

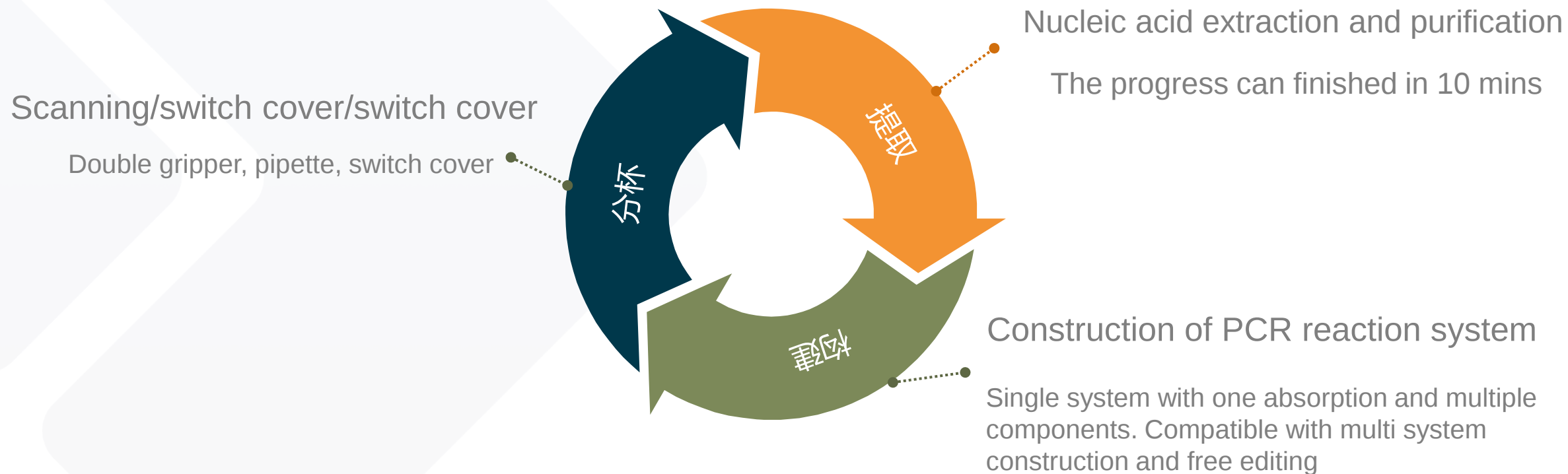
04

N P A m - 9 6 0 0

Product Overview

NPAm-9600 nucleic acid workstation is a part of the fully automated fluorescence quantitative PCR system FQD-A9600, which integrates the entire process automation of molecular testing, sample input, and result output. The system includes a NPAm-9600 nucleic acid workstation, a fully automated film coating machine, and FQD-96C CCD real-time fluorescence quantitative PCR products. It also constructs a test environment comparable to a standard PCR laboratory, using standard consumables and a PCR reaction system, with strong reagent applicability.





Product Comparison

NPA_m-9600

Convenient placement of
reagent carrier

Automatic switch cover

No horizontal oscillation

2 pipettes

Small footprint, lighting lamp

Convention carrier

Manual switch cover

horizontal vibration

2/4 pipettes

Large footprint, without lighting

NPA_s-9600

Automated Nucleic Acid Purification and Real Time PCR System --- AutoGene 9600



博日科技
BIOER TECHNOLOGY



Full-automation

Sample in, result out. Free your hands,
Improve experimental efficiency

Safe and non-pollution

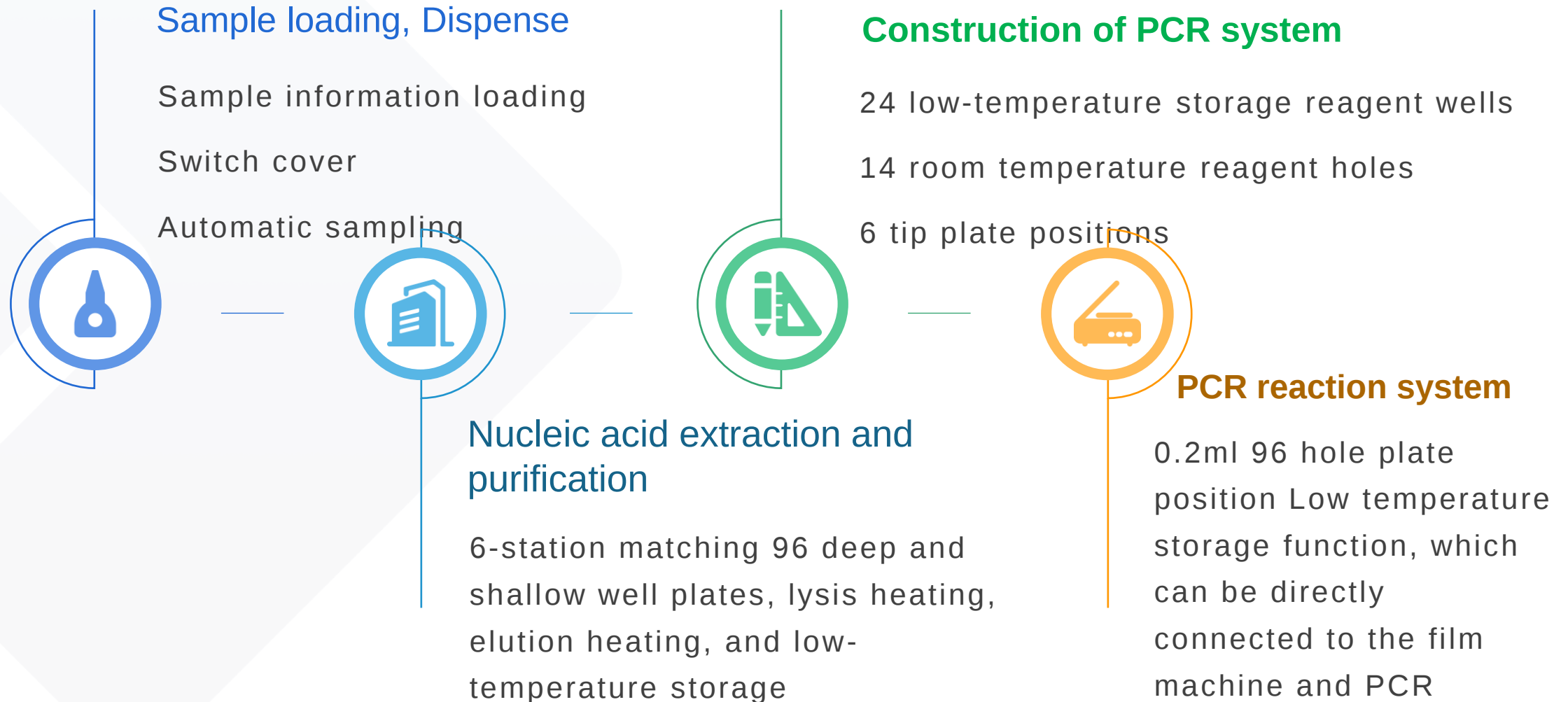
Three independent zones, gradient negative
pressure, ultraviolet lamp, HEPA filtration and
other comprehensive anti-pollution measures.

High throughput

A Stream-lined Procedure for sample
detection, more than 2200 samples
can be processed within 24 hours

Efficient and accurate

2 hours for 1st run, 1 hour since 2nd run



The fully automated nucleic acid purification and real-time fluorescence PCR analysis system (FQD-A1600) is a new generation of integrated PCR analysis system launched by Bioer. This instrument integrates nucleic acid extraction and PCR detection, truly bringing a fully automated nucleic acid detection solution of "sample in, result out" to customers, helping to achieve efficient allocation of laboratory human resources.

Fully Integrated

Implementation: The whole automated process of sample pre-treatment + nucleic acid extraction + fluorescence quantitative PCR

Absolute Efficiency

Drive laboratory efficiency in a number of ways, the first round results will be completed within 1 hour and the next round results will be issued every 30 minutes

Anti-Pollution

Fully enclosed design, unique sample processing unit, minimizes contamination

Unmatched Flexibility

Touch - controlled interface, full automatic result analysis, easy to operate

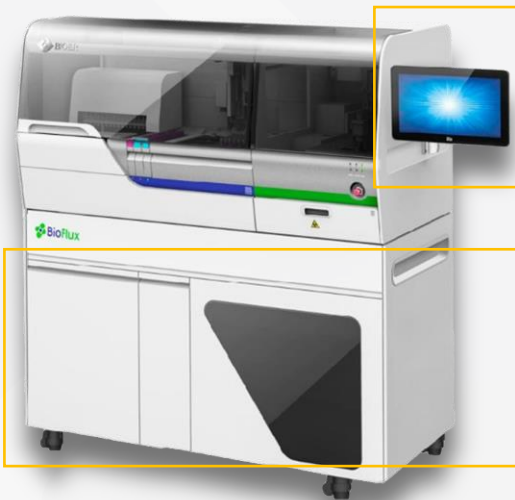
Automated Nucleic Acid Purification and Real Time PCR System --- A1600



博日科技
BIOER TECHNOLOGY

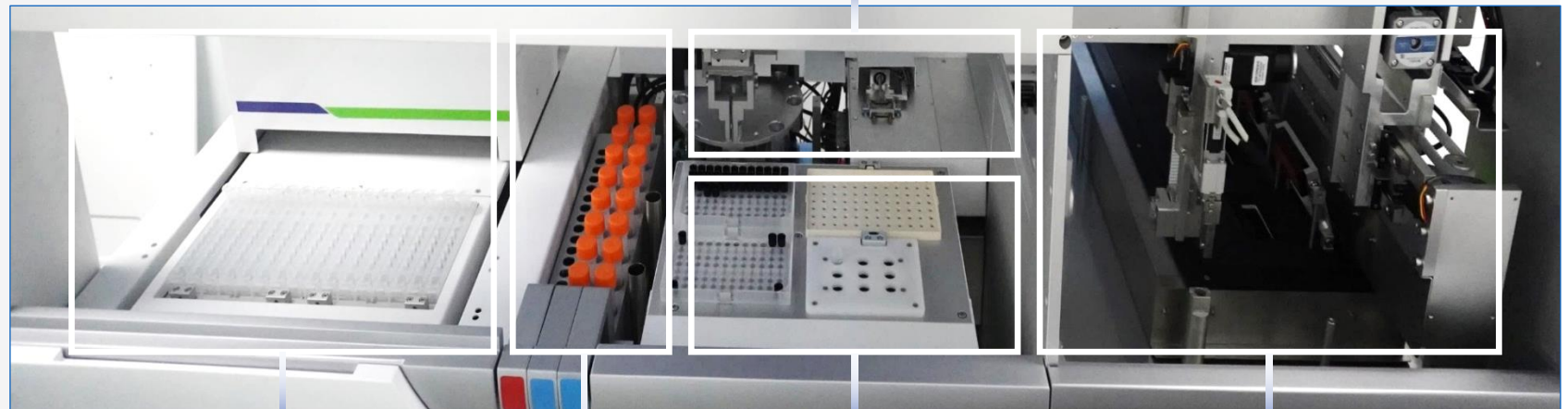
Dimension 185×73×153cm, Weight 500kg.

操作区



Consumables placement,
waste bins

缓冲区



Nucleic Acid Purification

Sample area

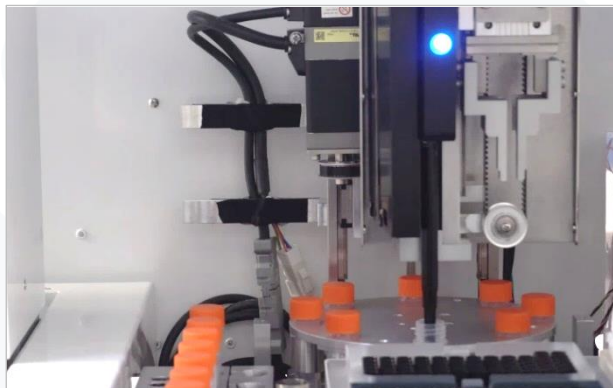
Consumable
reagent area

q P C R

Automated Nucleic Acid Purification and Real Time PCR System --- A1600



博日科技
BIOER TECHNOLOGY



1. Sample tube switch cover



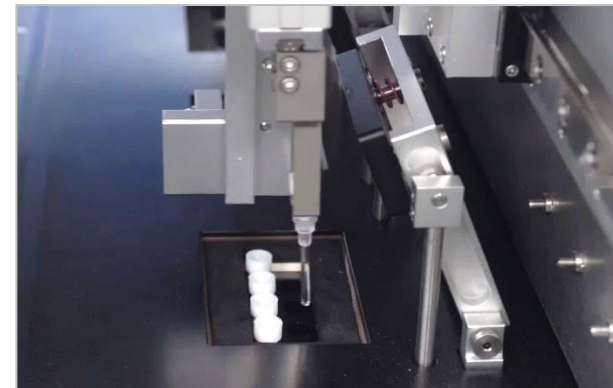
2. Load sample to the nucleic acid purification zone



3. Return the sample tube and configure the PCR reaction system



4. add sample to the PCR tube



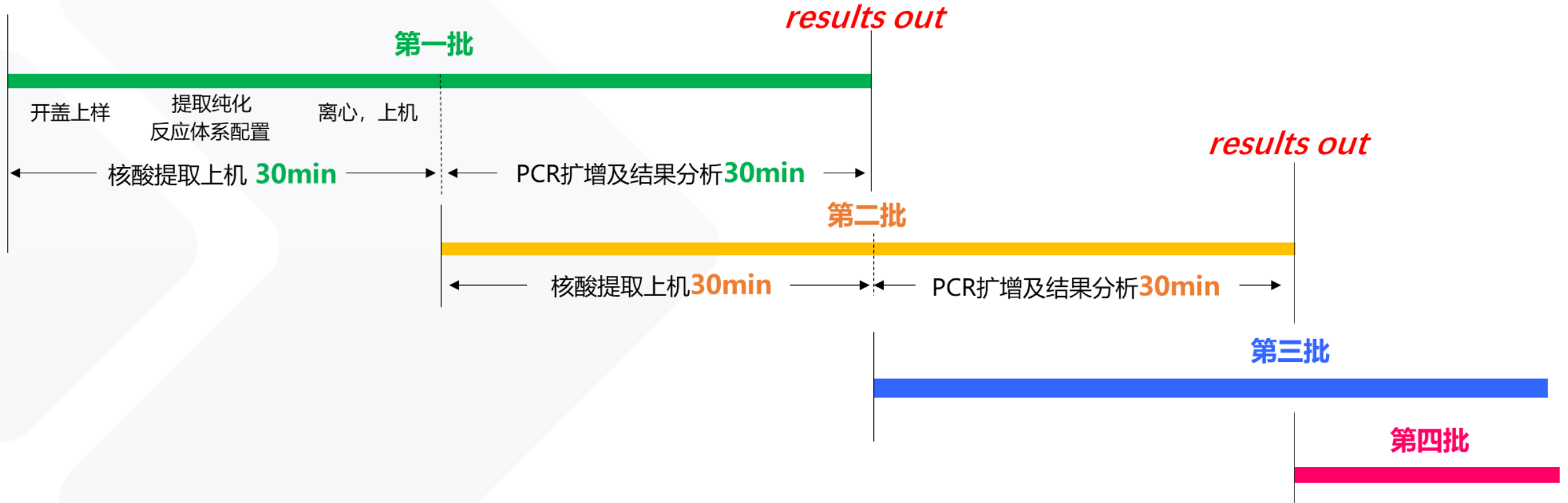
5. After centrifugation, grab the PCR tube to the amplification region



6. Amplification reaction, analysis of experimental data

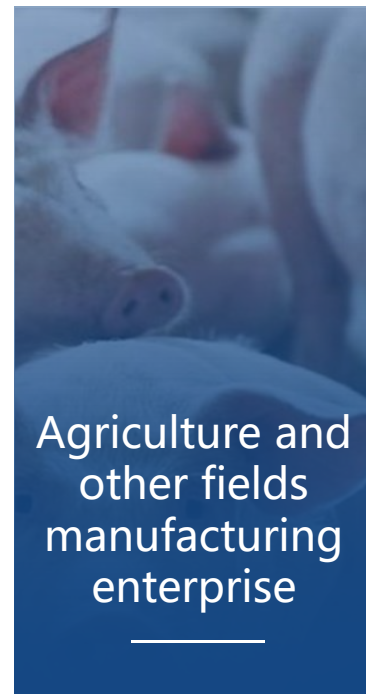
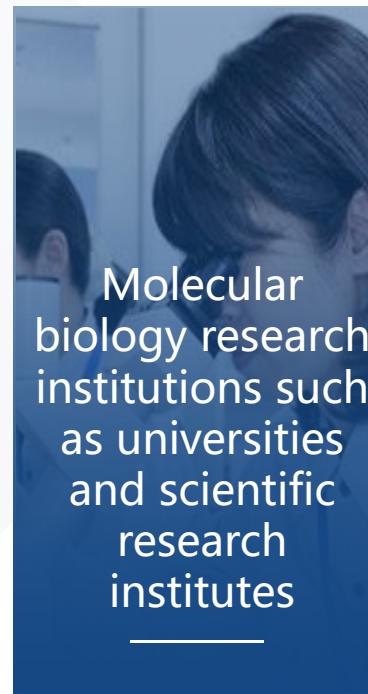
--- A1600

Take COVID-19 test as an example :



Complete the detection of 16 samples every 30 minutes, with a detection contents of 32 samples per hour, and conduct random inspection upon arrival

Help users reduce manual operation workload, improve experimental efficiency and stability, and can be widely used in various nucleic acid detection application scenarios, suitable for various large sample detection demand institutions.



The fully automatic nucleic acid extraction and purification system

— NAPs9600

The fully automatic nucleic acid extraction and purification instrument NAPs9600, No. 20210664, is a new generation of high-throughput nucleic acid processing workstation launched by Bioer. It integrates sample separation, nucleic acid extraction and purification, and PCR system construction, helping customers free up their hands and achieve efficient allocation of laboratory human resources.



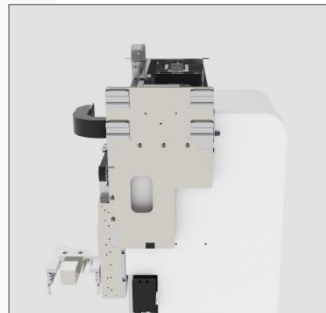
- Sample throughput: 96;
- Support single stripe (At least 6) ;
- Work efficiency: Complete nucleic acid extraction and system construction in 30 minutes, and extract nucleic acid from 96 samples in 9 minutes at most
- Pipette configuration: 2 or 4 channel pipette
- System configuration: 4 reaction systems can be configured simultaneously
- Anti pollution control: UV sterilization, HEPA efficient filtration system;

The fully automatic nucleic acid extraction and purification system — NAPs9600

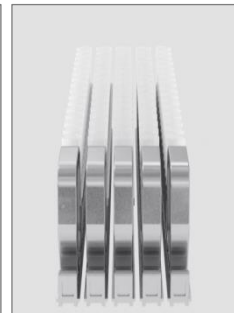


博日科技
BIOER TECHNOLOGY

The full automatic nucleic acid extraction and purification instrument NAPs9600 has an upper part for the experimental operation area for nucleic acid extraction and system configuration, and a lower part for the consumables storage area and the waste gun head storage area.



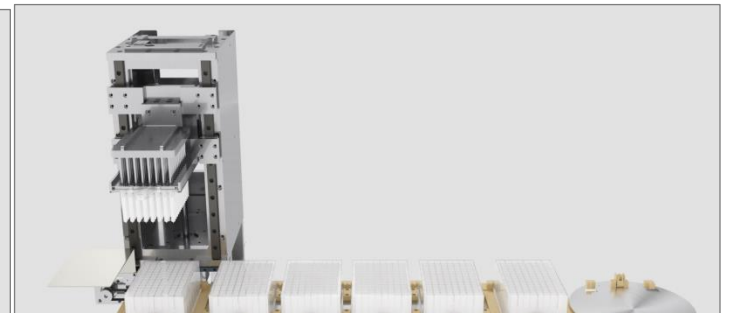
Liquid handing



Sample rack



Consumable
s&Reagents



Nucleic acid purification module



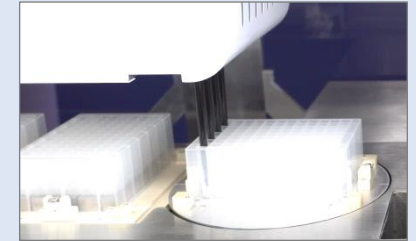
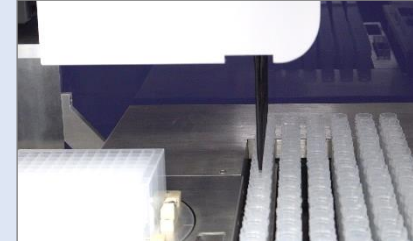
Consumables storage



Waste pipette tips

The fully automatic nucleic acid extraction and purification system — **NAPs9600**

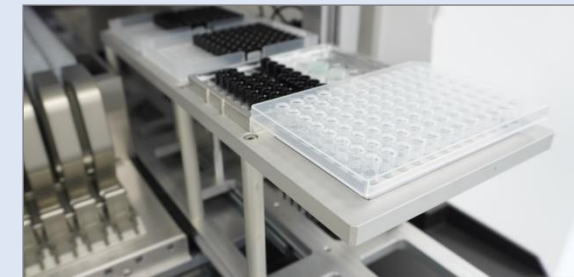
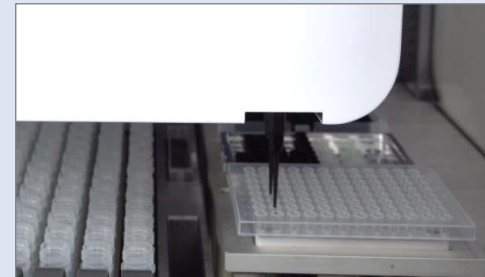
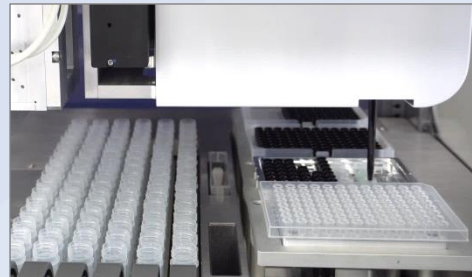
Sample loading, Dispense



Nucleic Acid Purification



PCR System construction



The fully automatic nucleic acid extraction and purification system

NAPs9600

**Fast
Efficient**

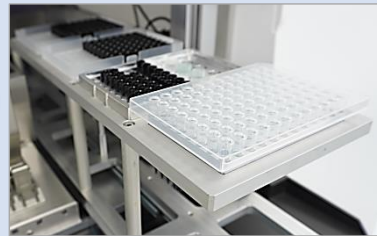
Accurate
Reliable

Safe
Pollution-free

Easy
to operate

Complete
solution

High throughput workflow, 192 samples/h , meet the large sample detection requirements



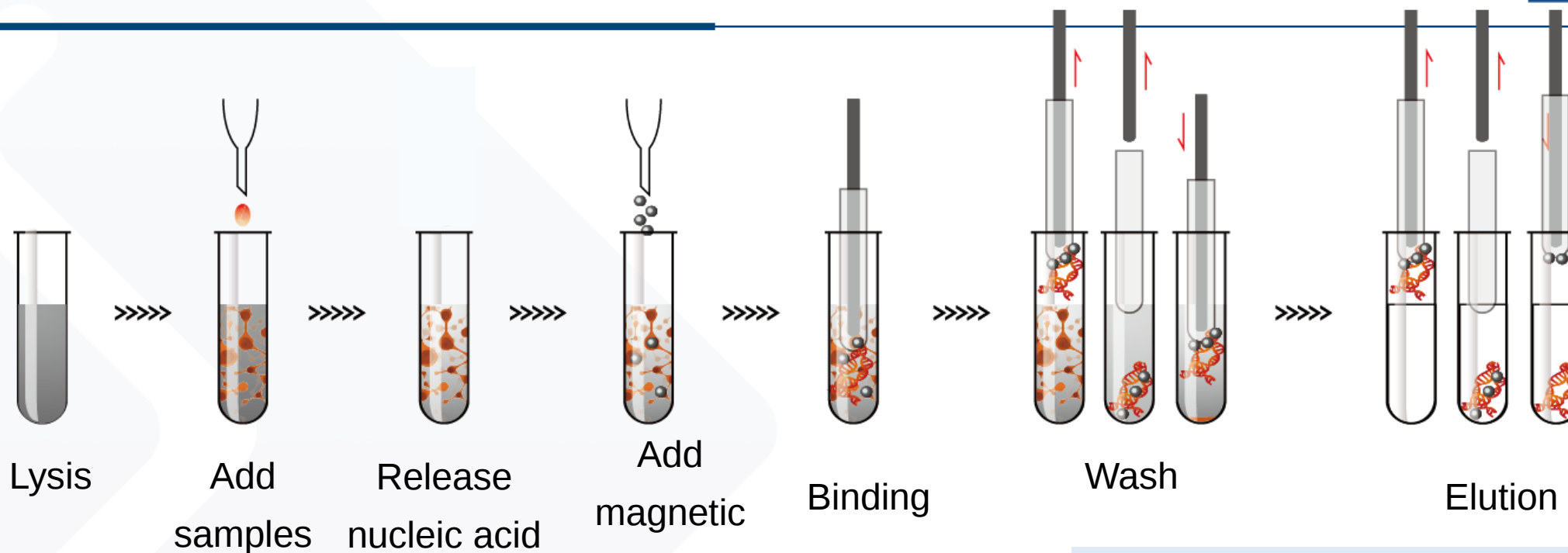
1 NPAS-9600

Nucleic acid processing and system build up of 96 samples can be completed every 30min

2 QuantGene9600

With rapid PCR reagent, 96 samples could be detected every 30min

Nucleic acid purification system



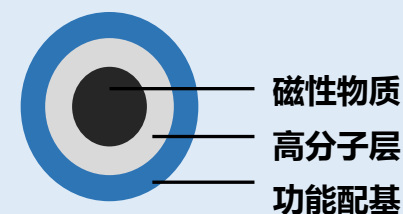
Lysis: breaking cells and releasing nucleic acids into buffer solution;

Adsorption: Add magnetic beads and mix thoroughly to bind nucleic acids onto the surface of the magnetic beads ;

Wash : Transfer magnetic beads to different washing buffers to remove proteins and salts ;

Elution: The magnetic beads are transferred to the eluent, and the nucleic acid falls off the surface of the magnetic beads to obtain the nucleic acid product ;

磁珠为磁性颗粒（内核多为 Fe_3O_4 ），表面包被硅质以及功能配基吸附核酸。高盐条件下，磁珠与核酸结合。低盐条件下，核酸从磁珠洗脱。



GenePure Nucleic acid purification system

The GenePure nucleic acid extraction instrument series is the latest nucleic acid pretreatment product of Bioer Technology. Series products adopt a family style design appearance, with high product recognition. The product is based on magnetic bead separation technology to achieve high throughput automated operation of nucleic acid extraction, which is convenient, fast, and repeatable. With the Bioer magnetic bead series of nucleic acid purification kits, it helps users isolate and purify high-purity nucleic acids from a variety of samples.



- ◆ Model : GenePure Pro 32E
- ◆ Throughput : 32



- ◆ Model : GenePure Pro 96E
- ◆ Throughput : 96



- ◆ Model : GenePure Pro 16H
- ◆ Throughput : 16, Large reaction system

GenePure Pro 32E Nucleic acid purification system

The upgrade of GenePure Pro 32E to the original model, GenePure Pro 32P, further reduces machine weight and energy consumption based on the functional characteristics of previous generation models, making it more user-friendly for large laboratories or mobile laboratories

Efficient extraction

Pre-packaged reagents reduce experimental errors;
High extraction efficiency, with a maximum of 8 minutes to complete the nucleic acid extraction of 32 samples;

Accurate temperature control

Fully wrapped deep well heating strip ,
improves lysis and elution efficiency

Security and Reliable

Multiple anti pollution measures such as disposable extraction of sheath, ultraviolet sterilization lamp, door opening protection function, etc;



Flexible throughput

Equipped with a single extraction reagent, the throughput from 32 holes to 48 holes can be increased by replacing the heating and magnetic rod modules;

Convenient operation

8-inch full color touch screen, unique cockpit panel UI interface, customizable operating procedures, easy to operate;

wide application

There are various types of matching pre packaged extraction reagents, covering animal and plant tissues, various microorganisms, various liquid and solid biological types of samples, and a wide range of applications ;

GenePure Pro 96E Nucleic acid purification system

The upgrade of GenePure Pro 96E to the original model, GenePure Pro 96T, further reduces machine weight and energy consumption based on the functional characteristics of previous generation models, making it more user-friendly for large laboratories or mobile laboratories

Efficient extraction

Pre-packaged reagents reduce experimental errors;
High extraction efficiency, with a maximum of 8 minutes to complete the nucleic acid extraction of 96 samples;

Accurate temperature control

Fully wrapped deep well heating strip ,
improves lysis and elution efficiency

Security and Reliable

Multiple anti pollution measures such as disposable extraction of sheath, ultraviolet sterilization lamp, door opening protection function, etc;



Flexible throughput

Equipped with a single extraction reagent, the throughput from 32 holes to 48 holes can be increased by replacing the heating and magnetic rod modules;

Convenient operation

10-inch full color touch screen, unique cockpit panel UI interface, customizable operating procedures, easy to operate;

wide application

There are various types of matching pre packaged extraction reagents, covering animal and plant tissues, various microorganisms, various liquid and solid biological types of samples, and a wide range of applications ;

GeneExplorer系列是博日科技最新推出的新一代基因扩增仪，延续博日科技一贯的精准温控特点，选用进口合金材料，配合升级的底物散热模块，以及成熟先进的热电制冷元件，性能稳定可靠，使得温控模块性能比肩进口品牌。

◆ Family style appearance, large screen operation

Family appearance, strong recognition
8-inch full-color touch screen;
New UI design, easy to operate

◆ Excellent temperature control :

Mature thermoelectric refrigeration technology;
Custom grade Peltier;
TAS edge temperature compensation technology;
Automatic hot lid;



◆ Multiple model configurations to meet diverse needs

Includes 96 wells, dual 48, dual 96 wells capacity models;
Gradient includes zoning and natural gradient
Includes in situ PCR models

◆ Mobile App Sync

Mobile terminal APP real-time monitoring device;
LAN for networked operation of multiple devices ;

◆ Power-off protection

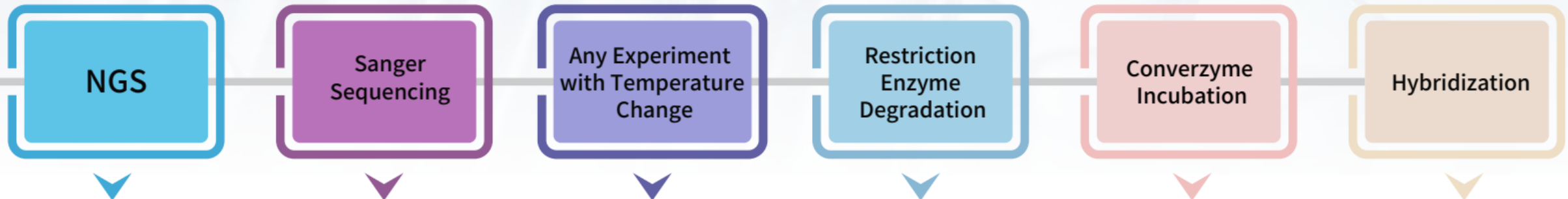
Model	TC-96/G/H(b)B	TC-S-96/G/H(b)BA	TC-XP-D	TC-E-48D	TC-EA-B-41A	TC-EA-B-384GA
Sample Capacity	96		Dual 48		In situ slide	384
Gradient Temp	Gradient , 1-30℃	6 ZONE, 1-30℃	-	Dual, 3 ZONE, 1-30℃	-	Gradient , 1-30℃
Ramp Rate	5℃/s	7℃/s	5℃/s	6℃/s	4℃/s	4℃/s
Temp. Uniformity	≤±0.2℃	≤±0.2℃	≤±0.2℃	≤±0.3℃	≤±0.2℃	≤±0.2℃
Temp. Accuracy	≤±0.1℃					
Dimensions	420×269×254mm (L×W×H) ,12kg					

GeneExplorer OD



The automatic thermal cycle module can be applied to various automatic liquid transfer platforms, and can be used in molecular biology experiments requiring conventional heating and cooling conversion.

- Standard network interface, convenient communication;
- Supports grasping PCR boards from various angles;
- Complete and stable functions, adjustable temperature rise and fall;



Fluorescence quantitative PCR instrument series products

Fluorescence Quantitative PCR Detection System series



LineGene 9600 Plus (FQD-96A)

- ◆ bottom detection, compatible to reaction volume down to 5ul
- ◆ Multiple options: 6 channels fluorescence detection, no crosstalk between different channels
- ◆ Equipped with whole block scanning and formulated line scanning mode, 96-well scanning takes only 5.5s
- ◆ Precise temperature control



LineGene K Plus (FQD-48A)

- ◆ bottom detection technology
- ◆ Multiple options: 4-channel design
- ◆ Block: 48 wells, 3 blocks independent temperature control.
- ◆ Flexible program setting, comprehensive analysis and report functions
- ◆ Portable tablet compatibility with wireless use makes operation easier



LineGene MiNiS (FQD-16B)

- ◆ Multiple options: 2 channels & 4 channels, side-bottom detection
- ◆ Appearance: portable and delicate, convenient handling and setting.
- ◆ Rapid detection with nucleic acid release buffer



As a classic LineGene series product of Bori Technology, the LineGene 9600 Plus product model is FQD-96A, with a large sample size of up to 96 samples. The 5+1 channel design also covers all commonly used fluorescence detection wavelength ranges. The newly designed automatic hot lid eliminates the need for manual opening/closing, ensuring constant pressure when the hot lid is used at different heights of test tubes. Support for Windows tablets, and the new touch screen control brings you the ultimate experience of human-computer interaction.

Ramp Rate	5°C/s
Temp Accuracy	≤±0.1°C
Temperature Uniformity	≤±0.3°C
Reaction System	5-100ul
Temperature Control Mode	Block tube
Scan Mode	PMT Full plate scanning, designated line scanning
Hot Lid temperature range	30-110°C (default 105°C)
Detection Channels	6
Gradient temperature range	1-36°C

01

独特的底部扫描，信噪比优异、灵敏度高，实现微量检测；

02

采用覆胶工艺半导体制冷片，大幅增加元器件寿命；

03

6 个长寿命 LED 激发光源，免维护，通道间无交叉干扰；



04

专业光纤传导，消除边缘光程差，免校准；

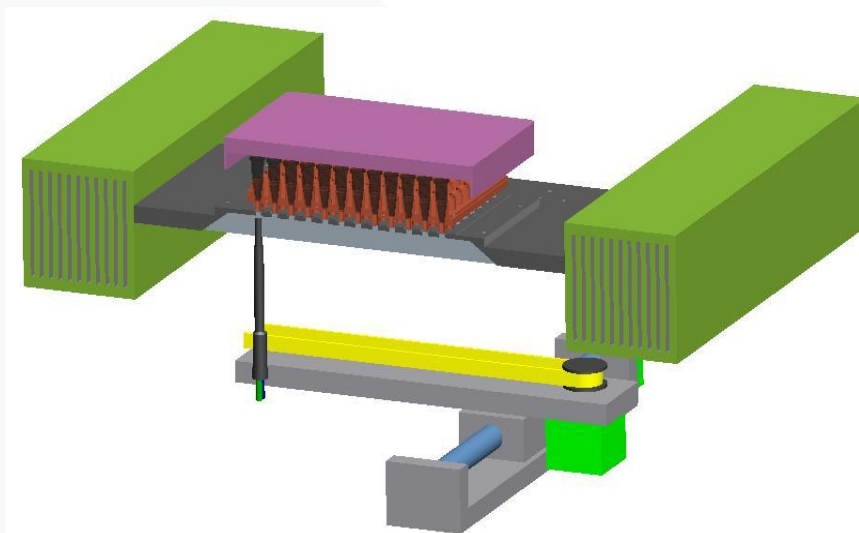
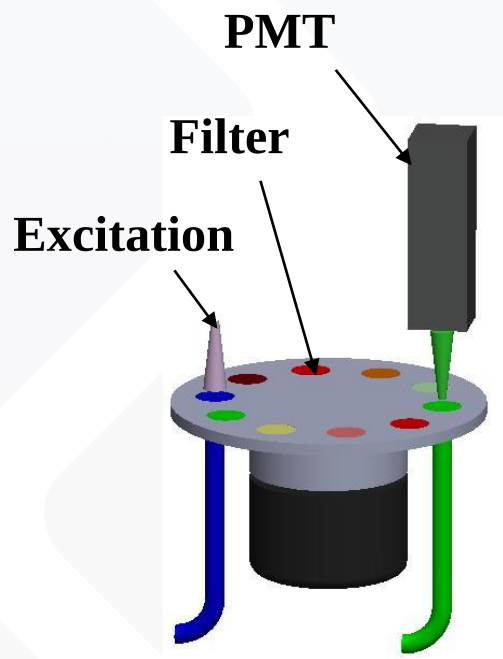
05

超高灵敏度 PMT 检测器，搭配精密光路系统，实现更精准检测；

06

软件分析功能强大，程序设定灵活，全中文界面。

- ◆ Bottom scan (Bosch patent): Compatible with flat and dome test tubes, effectively preventing reagent evaporation, stronger fluorescence signal, and high signal to noise ratio. Using high-precision optical filters, high-temperature resistant professional optical fibers, high sensitivity PMT detectors and other high-end components, giving the product stronger optical detection performance.



QuantGene 9600 Features

Optimized temperature control system

- Advanced thermo-electric refrigeration technology
- 6 partition thermal cycling module
- Stable and accurate gradient functions of 1 ~ 36°C ensure optimized PCR conditions

User-friendly operation software

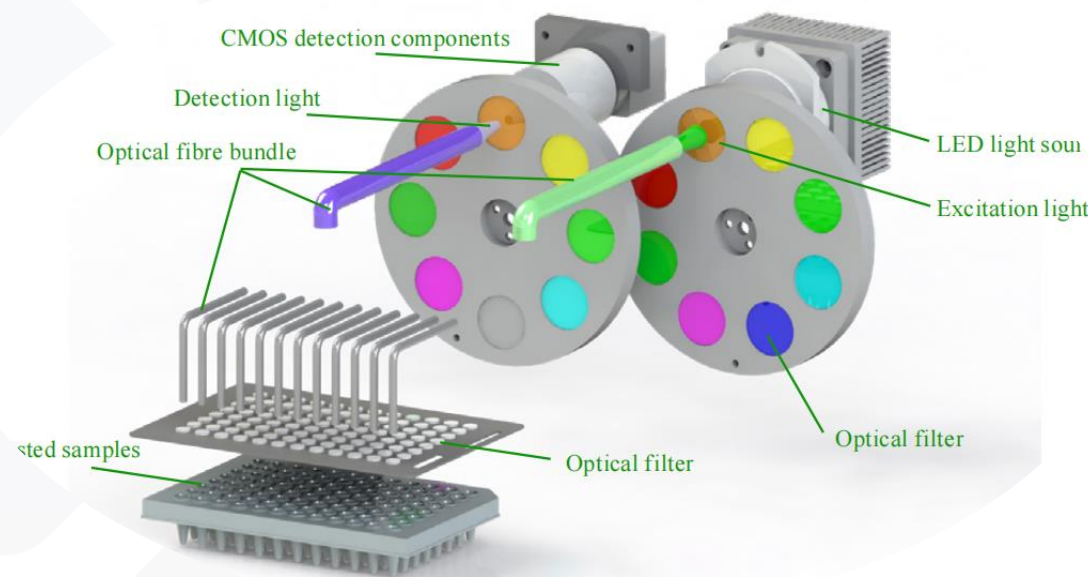
- Large screen(10.1')touch type software operation, greatly improve customer experience
- International standard UI design to meet user operation habits
- Flexible program setting, include analysis and reporting functions, all parameters can be stored

Automatic pop-up sample bin

- Automatic pop-up sample warehouse design, easy to operate



QuantGene 9600 Top Imaging Photoelectric Detection



High efficiency and fast detection

Top imaging technology (96 wells fluorescence signals simultaneously)
No detection time difference between the Wells, Single channel detection only takes 1 second

Dynamic monitoring

Real-time dynamic monitoring of the whole process of PCR amplification was carried out

Fiber conduction technology

The excitation and detection channels use independent filter wheels, which can cope with secondary excitation detection tests without expanding the channels, such as the application of dual hybridization probes;

No need of maintenance

Long life LED excitation light source requires no maintenance

Quantgene 9600

Product name	QuantGene 9600 Fluorescent Quantitative Detection System					
Product model	FQD-96C					
Sample size	96×0.2ml (Suitable for single tube, 8 strip tube and 96-well plate (non skirt & half skirt))					
Detection channel	F1	F2	F3	F4	F5	F6
Applicable dye	FAM, SYBR Green I	VIC, HEX, TET, JOE	ROX, TEXAS -RED	Cy5 Quasar -670	Cy5.5 Quasar -705	Optional
Module operating temperature range	4℃~99.9℃(Minimum setting scale:0.1℃)					
Max heating rate	6℃/s					
Max cooling rate	5.5℃/s					
Module temperature control accuracy	Should be no greater than 0.1℃					
Temperature uniformity	The temperature difference is within ±0.3℃					
Temperature control accuracy of hot cover	105℃±5℃					
Fluorescence intensity test repeatability	CV≤3%					
Mode of operation	Continuous operation					
Operating system	Windows XP/Windows Vista/Windows7/Windows8					
Input power	100-240V ~ 50Hz 1000VA					
Overall dimensions	490mm×290mm×391mm					
Weight	28kg					

Thank you