Bring Technology to Life

TIAN LONG

Aurora PANA X6

Automated Nucleic Acid Extraction System

All-in-one solution for high-throughput blood screening applications

Aurora PANA X6 Automated Nucleic Acid Extraction System integrates multiple functional modules, including sample loading, sample pooling, nucleic acid extraction, PCR setup, reagent storage and a reserved PCR amplification module. Paired with Tianlong's Gentier 96 Real-time PCR System, it delivers a true "sample-in, result-out" workflow. Specifically designed for blood screening applications, Aurora PANA X6 offers an integrated and automation-driven approach to nucleic acid testing.

Sample Pooling Module

- Automated capping/decapping
- Direct pooling into deep-well plates
- Supports 6 in 1 pooled testing

Extraction & PCR Setup Module

- Dual magnetic bead-based extraction modules (2×16T)
- Supports large-volume sample lysis
- High-precision pipetting (5–1000 μL)
- Automated capping/decapping for PCR tubes

Sample Loading Module

- Original sample tubes loading
- 576 samples per run(96×6 racks)

Reserved PCR Amplification Module

- Dual PCR amplification modules (2×48T)
- Integrated with 2 Gentier 96 Real-time PCR System

All-in-one solution

Sample-in » result-out

FEATURES

High-Efficiency Parallel Workflow

Supports up to 576 samples per run, with parallel batch processing. Independent modules for sample loading, pooling, extraction, PCR setup, and PCR detection ensure continuous workflow without interruption.

Fully Automatic Operation

From original sample tube loading, 360° barcode scanning to capping&decapping, sample pooling, nucleic acid extraction, and PCR detection, all steps are fully automated, minimizing hands-on time and reducing human error.

Smart Space-Saving Design

Vertical drawer-style loading (up to 576 samples) optimizes workspace; Direct pooling into deep-well plates—no need for collection tubes; Supports simultaneous individual and pooled testing, boosting efficiency.

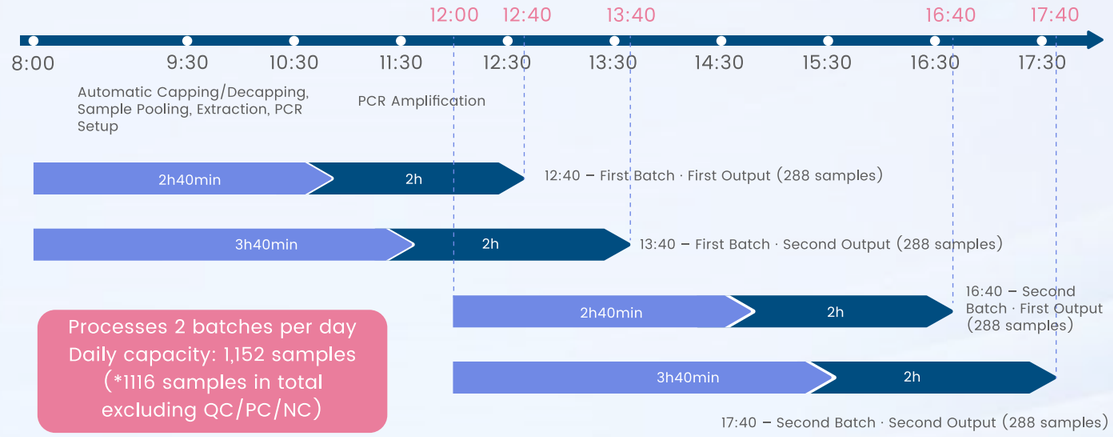
Robust Contamination Control

1)Independent zoning; 2)Directional airflow; 3)UV disinfection; 4)HEPA filtration; 5)Anti-drip design; 6)Negative pressure; 7)Rotary mixing extraction to reduce aerosols;

Precise and Reliable Performance

Features dual magnetic bead-based extraction modules (2×16T), dual PCR amplification modules (2×48T), high-precision pipetting (5–1000 μL), intelligent liquid-level detection, and temperature-controlled reagent storage (4–8°C).

WORKFLOW & OUTPUT



Processes 2 batches per day
Daily capacity: 1,152 samples
(*1116 samples in total excluding QC/PC/NC)

SPECIFICATIONS

Model	Aurora PANA X6	
Throughput	576 (96×6 racks)	
Sample Types	Plasma, serum, whole blood, swab eluate, etc.	
Pipetting Range	5 μL – 1000 μL	
Pipette Channels	8 (4 per module), individually operated	
Extraction Module	2 × 16T	
PCR Module	2 × 48T (Gentier96 × 2)	
Liquid Level Detection	Capacitance & pressure sensing technology	
Extraction Temperature Control Range	Range from 30°C to 120°C for lysis and elution	
Reagent Storage	4°C – 8°C refrigerated zone	
Contamination Control Measures	1)Independent zoning; 2)Directional airflow; 3)UV disinfection; 4)HEPA filtration; 5)Anti-drip design; 6)Negative pressure; 7)Rotary mixing extraction to reduce aerosols;	
Software Interface	18-inch touchscreen	
Connectivity	Ethernet (TCP/IP), USB 2.0	
Language	English, Chinese	
Dimensions	1000 mm(L) × 870 mm(W) × 1780 mm (H) (Pooling Module)	1000 mm(L) × 870 mm(W) × 1780 mm (H) (Purification Module)
Weight	332 kg (Pooling Module)	370 kg (Purification Module)
Power Supply	AC110V-240V, 50Hz, 1900 VA	

Version 2.0

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