

Specifications



Item	Details
Throughput	96
Handling Time	≤16 min for 96 samples
Features	1. Automatic cap opening and closing; 2. Sample pipetting, dispensing 3. PK/IC reagent loading; 4. Automatic mixing of sample tubes
Compatible Sampling Tubes	Diameter: 13-19mm; Height: 55-115mm Compatible with 5mL, 10mL and 20mL screwcap sampling tubes 5-in-1, 10-in-1 mixed sampling tubes: Direct loading with cap
	Original sampling tube: direct loading with cap Sample loading for sample tubes with swabs Pre-set with programs for conventional standard sampling tubes, ready for use with customization of the sampling tube parameters
Compatible Deep-Well Plates	6 * 16T standard 1mL deep-well plates 1 * 96T standard 1mL deep-well plates
	Compatible with 3mL deep-well plates; 3 * 8T 3mL large-system deep-well plates (Tianlong) Pre-set with specifications of conventional standard deep-well plates, ready for use with customization of the deep-well plate specifications
Pipetting	Dual independent pipetting modules; pipette pumps with adjustable spacing; sample loading into individual wells in order
	Pipetting volume: 5 -1000μL
	Liquid level sensor Pipetting volume detection; pipette tips following the liquid surface while aspirating and draining
Pipetting Accuracy	5μL~50μL: Er≤3.5%
	50μL~200μL: Er≤2.5%
	≥200μL: Er≤2.0%
Pipetting Repeatability/CV	5μL~50μL: CV≤2.5%
	50μL~200μL: CV≤1.5%
	≥200μL: CV≤1.0%
Smart information system	Sampling tube information scanning (ID code & QR code)
	Deep-well plate status identification (open system) /information scanning (Tianlong system)
	Automatic barcode scanning of sample racks
	"Sample - rack - plate- PCR" information linkage" sample – result" closed-loop management Lis system link
Touch screen	12.1 inch LCD touch screen
Internet port	USB 3.0/Ethernet port
Dimensions	1130mm(L) ×780mm(W) × 920mm(H)
Net weight	<200Kg
Power supply	Voltage: 100 - 240 V; Frequency: 50/60HZ Rated power: 600VA
Temperature	15°C-35°C
Relative humidity	35%RH-70%RH, non-condensing
Atmospheric pressure range	56-106Kpa (Altitude ≤ 4000m)

GeneMix Pro Automatic Sample Processing System

[NMPA | FDA]



GENEMIX PRO

Automatic Sample Processing System

- Optimized Efficiency
- Fast and Safe
- Real Walk-Away Design



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Bring Technology to Life

GENEMIX PRO

For PCR laboratories facing high volume of testing needs, pre-setup steps such as information entry of sample tubes, lid opening/closing, and sample pipetting have become the rate-limiting steps in nucleic acid testing because of the complex, time-consuming and error-prone operation and high-precision requirements.

GeneMix Pro Automatic Sample Processing System

Tianlong GeneMix Pro Automatic Sample Processing System is designed to free you from tedious mechanical operations. This fully automated, high-throughput instrument can process 96 samples within 16min, including sample tube information entry, sample mixing, proteinase K/internal control addition, lid opening/closing, sample pipetting, deep-well plate information entry, sample tube retrieval to sample rack, sample loading to deep-well plate, etc. GeneMix Pro can realize the real smart and walk-away processing to improve efficiency and safety for medical laboratories.

FAST AND SAFE REAL WALK-AWAY DESIGN



Features

○ Convenient and Efficient

Can handle 96 samples within 16 min; automated process from sample tube information entry to deep-well plate.

1step



2step



3step



○ High Compatibility

Compatible with various screwcap sample tubes and conventional standard SBS deep-well plates.

Optimized Safety



Applications

GeneMix Pro is designed for sample processing for clinical diagnosis, epidemic surveillance, food safety, forensics, scientific research, etc., especially for samples of SARS-CoV-2 and other virulent infectious diseases.