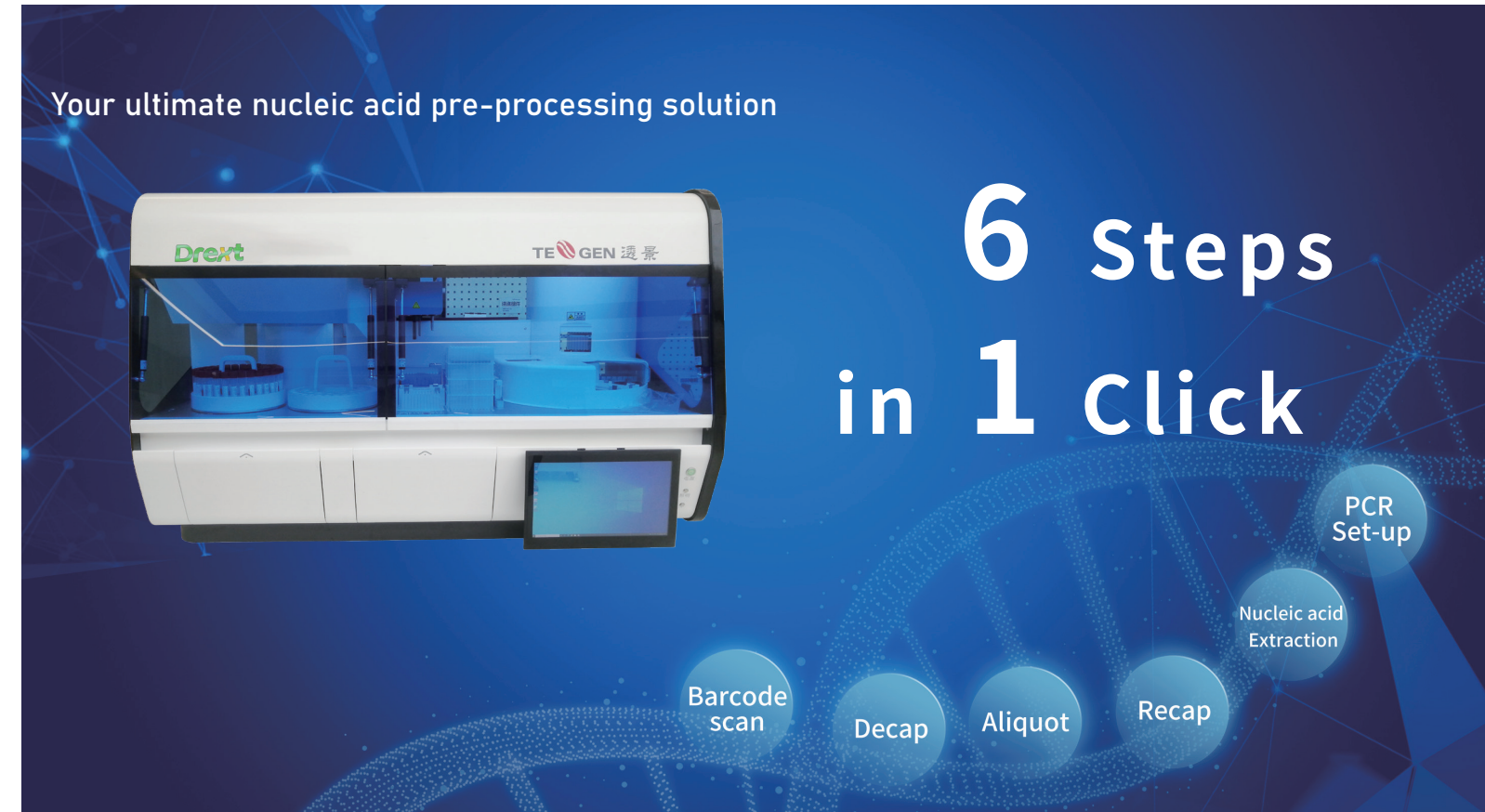


Technical Specifications

S. No.	Function	Performance Parameters
1	Overall Function	Automated barcode scanning, decapping, aliquoting, recapping, extracting nucleic acid, PCR reaction set-up
2	Processing Speed	All pre-analytical processes for up to 96 samples in 40min
3	Tube Types	Centrifuge tube, virus sampling tube, blood collection tube, freezing tube and other screw cap tubes
4	Maximum Throughput	Up to 96 samples
5	Sample Channel	4 independent sample channels
6	Sample Carrier	Unique turntable sample carrier, minimizing dispensing distance, boosting efficiency
7	Arms and Grippers	3 mechanical arms, 4 decapping grippers, 2 sample transferring grippers
8	Anti-contamination	HEPA filtration system with air efflux that can connect lab ventilation system; Separate enclosed nuclear acid extraction area; Designated route of aliquoting; Remote control UV sterilization lamp; Use disposable filter pipette tips
9	Liquid Handling	Liquid level detection, clot detection
10	Liquid Level Detection	Utilizing air pressure to sense the liquid level
11	Aliquot Precision	Volume determines aliquoting pump: Aliquot volume of 100µl, precision±2%, CV ≤ 2%; Aliquot volume of 1000µl, precision±1%, CV ≤ 1%
12	Aspiration Monitoring	Non-stop CCD visual inspection system, recording of abnormal liquid aspiration
13	Consumable	Disposable filter pipette tips only
14	Consumables Monitoring	Real-time consumable inventory management on instrument
15	Barcode scanning	1D and 2D scanning system; Interleaved 2 of 5, Code39, Code128, ENA / UPC, EANAddendun, Codebar, pharmaCode, Code 93
16	Program Storage	More than 20000 programs
17	System Interface	15.6inch color touchscreen, intuitive interface, ease of operation
18	Ports	USB, RS-232; LIS system, API (upon request)
19	Operating Environment	Temperature 10-30°C (50-86°F); Humidity 15-85%
20	Power Supply	100V-120V/200V-240VAC, 50/60Hz



Automated Workflow Series
DP96

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Official Website



WeChat Programme

Introduction

Tellgen's DP96 is specially designed for pre-analytical processing in molecular assays. This fully automated instrument is able to complete the full pre-analytical process from barcode scanning, decapping, aliquoting, recapping, extracting nucleic acid, to set-up PCR reaction. Unique features such as turntable sample carriers and enclosed extraction area target to speed up experimentation process and eliminate contamination risk. This all-in-one instrument takes pre-analytical process to the next level with automation.

Advantages

6 steps in 1 click

Barcode scan, decap, aliquot, recap
extract nucleic acid, set-up PCR reaction



Minimal manpower demand

nearly full process automation
save >60% manpower

Exceptional productivity

up to 96 samples per 40min
4000+ tubes per day

Applicable Scenarios

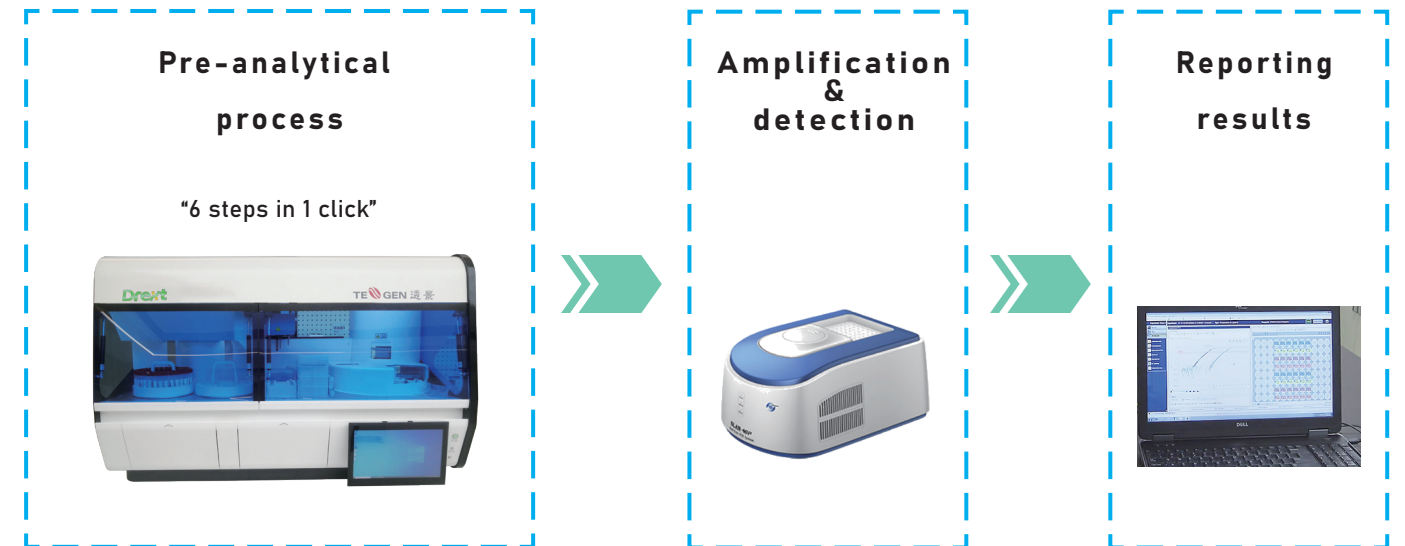
Specially designed to support maximum needs

General hospitals, third-party laboratories, makeshift hospitals...



...

Testing Process



Characteristics

- ✓ Barcode scan, decap, aliquot, recap, extract nucleic acid, set-up PCR reaction "6 steps in 1 click"
- ✓ Save 90% manpower in the sample preparation lab
- ✓ Save more than 60% manpower throughout the process

One-click Operation

- ✓ All pre-analytical processes for up to 96 samples in 40min
- ✓ 4000+ tubes per day

Exceptional Productivity

Anti-contamination

- ✓ HEPA filtration system
- ✓ Scientific and clear division
- ✓ Enclosed nucleic acid extraction area
- ✓ Remote control UV sterilization
- ✓ Disposable filter pipette tips

Flexible and Compatible

- ✓ Compatible with multiple sample tube types
- ✓ Compatible with HPV, respiratory virus and other tests