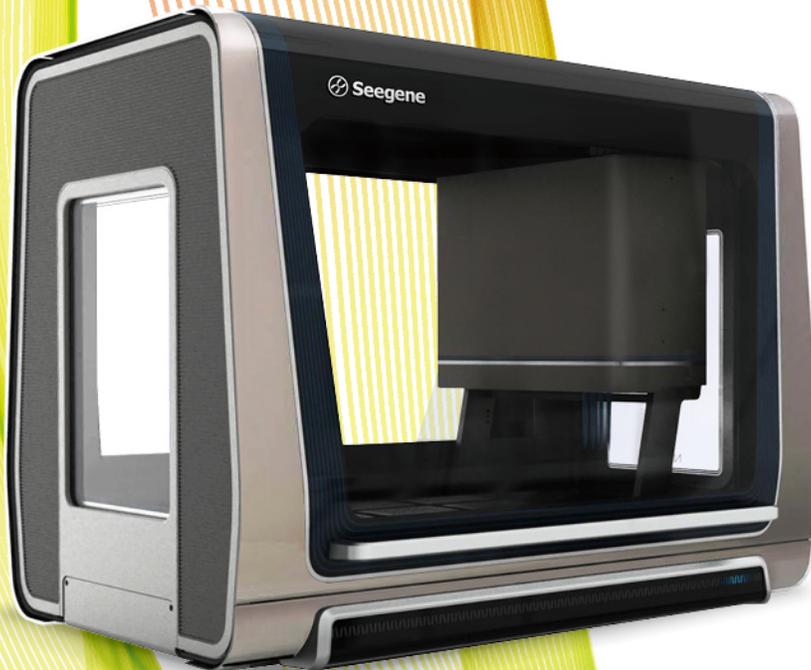


Seegene **NIMBUS**

Efficient one-step process from nucleic acid extraction to PCR setup

CE-IVD
Marked



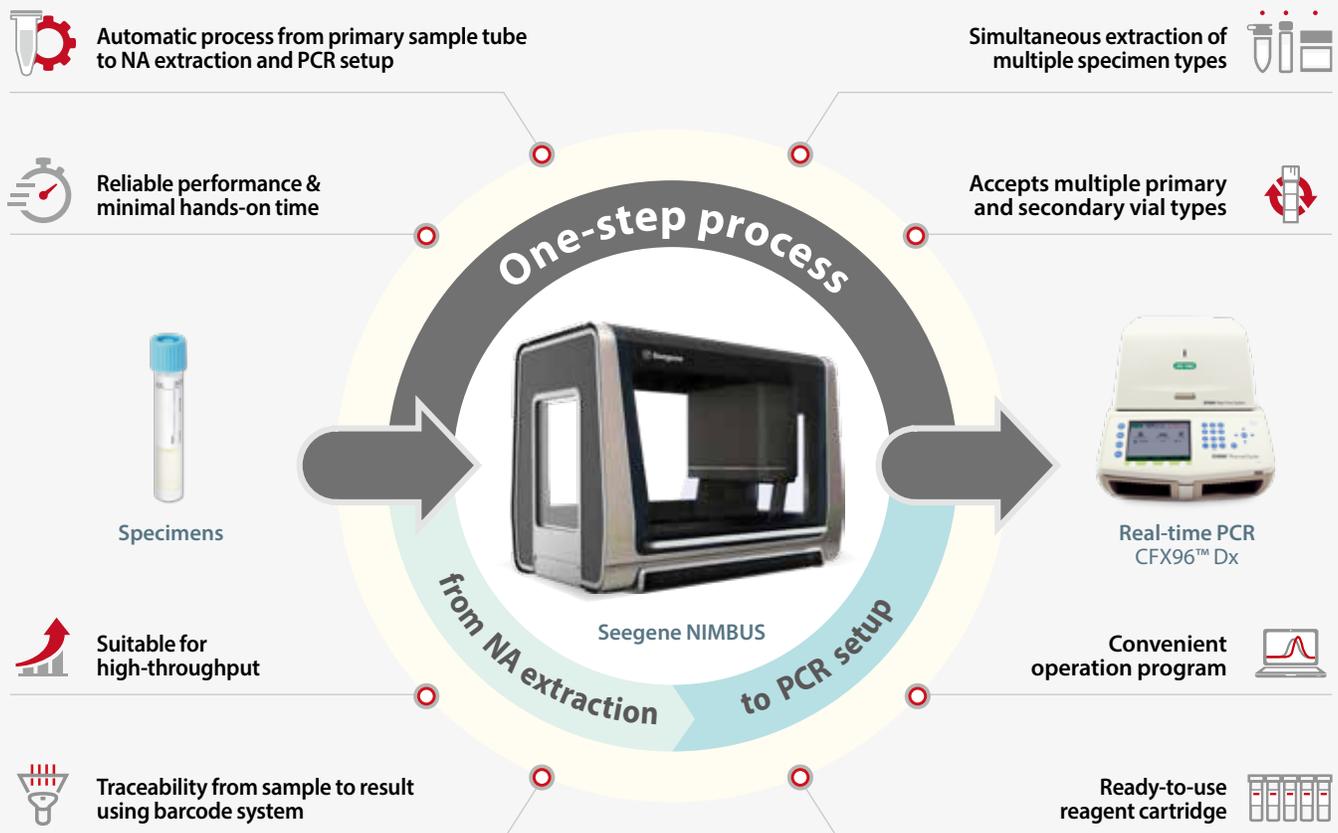
 **Seegene**

Seegene

NIMBUS

Seegene NIMBUS is an easy-to-use liquid handling workstation from primary sample tube to nucleic acid(NA) extraction and PCR setup. It provides convenient process of your lab works by minimizing hands-on time and maximizing assay reliability.

Seegene's automated MDx platform



Universal Cartridge Kit



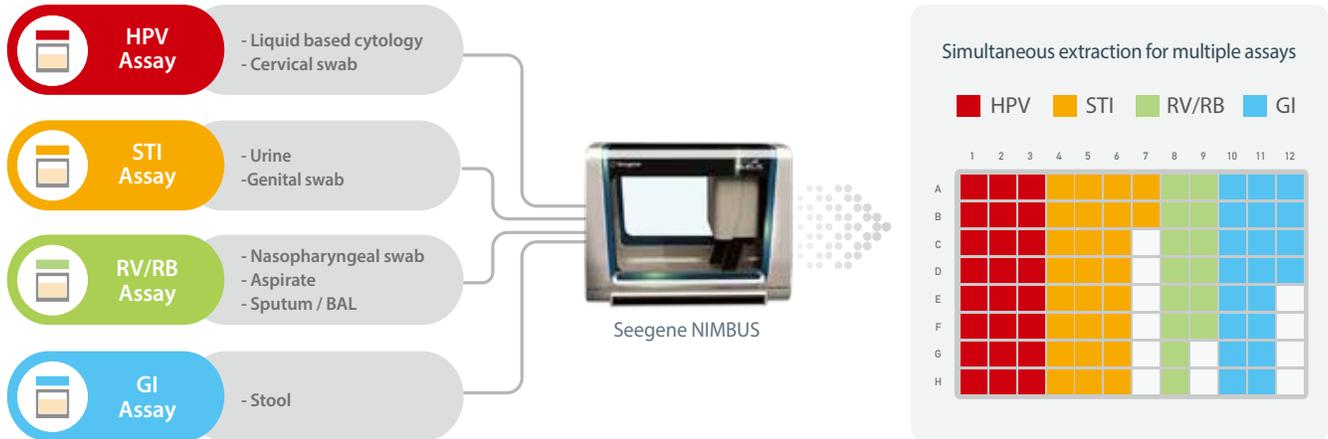
- Whole Blood
- Serum
- Plasma
- Cells
- Urine

- LBC (Liquid based cytology) specimen
- Swabs (Nasopharyngeal, Vaginal, Cervical, Urethral Rectal)
- Aspirate (Nasopharyngeal)
- BAL (Bronchoalveolar lavage)
- Sputum

- Stool
- Cary-Blair
- CSF

Simultaneous nucleic acid extraction of multiple specimen types

- Single set of reagent for extraction of bacterial, viral, genomic, parasitic, fungal DNA and/or RNA from multiple specimen types
- Enhanced efficiency of working hours by reducing sample process time



Maximizing workflow efficiency

- Multiple specimen types and assays run at the same time
- Open system for laboratory developed tests



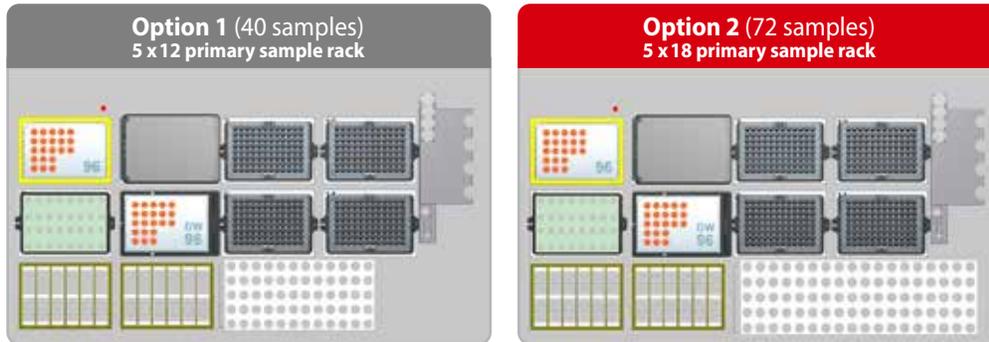
Ready-to-use reagent cartridge system

- Predisposed extraction reagents for up to 96 samples in one, re-useable cartridge
- Eliminate hands-on time for reagent preparation
- Verify reagent volume by barcode system



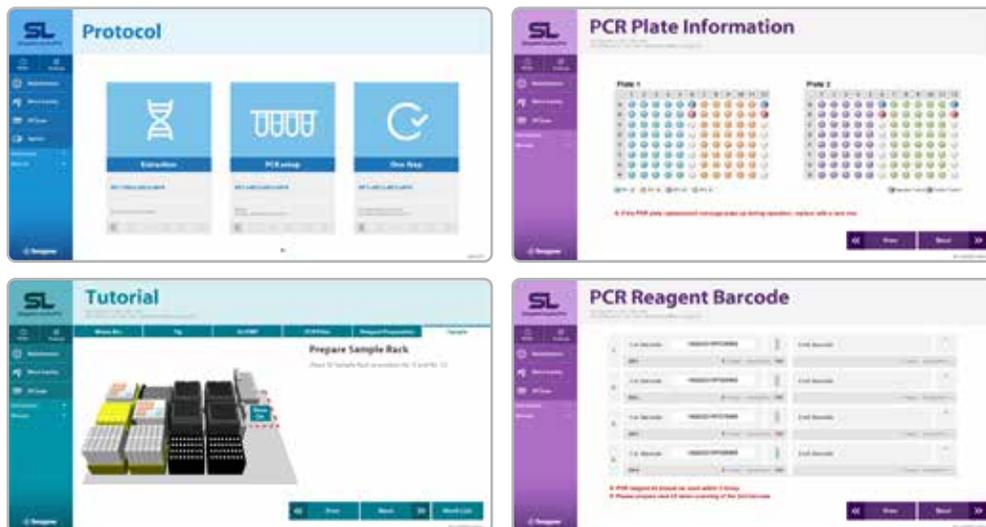
- **Extraction of maximum 72 samples depending on primary sample rack (option)**

- Optional use of 40 or 72 samples
- Maximize sample capacity and throughput by replacing primary sample rack [5 x 12] with [5 x 18]



- **Convenient operation using 'Seegene Launcher' program**

- Intuitive tutorial session for each step of entire process
- Easy integration of sample information by barcode scanner or LIS
- Convenient to trace remaining reagent volume by barcode system
- One click away to run various assays



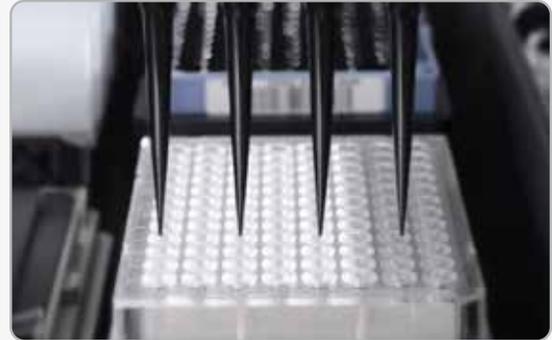
* HAMILTON's innovative technologies applied to Seegene NIMBUS

HAMILTON's proprietary CO-RE(Compressed O-Ring Expansion) technology attaches disposable tips using a highly robust lock-and-key style mechanism. This enables improving a positional precision and eliminating mechanical stress and minimizing the production of aerosols. And air displacement pipetting system similar to high precision hand-held electronic pipettors can reduce risk of contamination or sample dilution. Anti-Droplet Control (ADC) technology can control pressure changes of liquid channels in real-time. Upon activation, ADC prevents inadvertent dripping from the channels, reducing the risk of contaminating the deck.

One-step process from NA extraction to PCR setup (can be used for PCR setup only)

- Maximize user convenience by minimizing hands-on time
- Selectable functions : entire process from NA extraction to PCR setup, extraction only, and PCR setup only
- Reduction of risks for contamination and human error

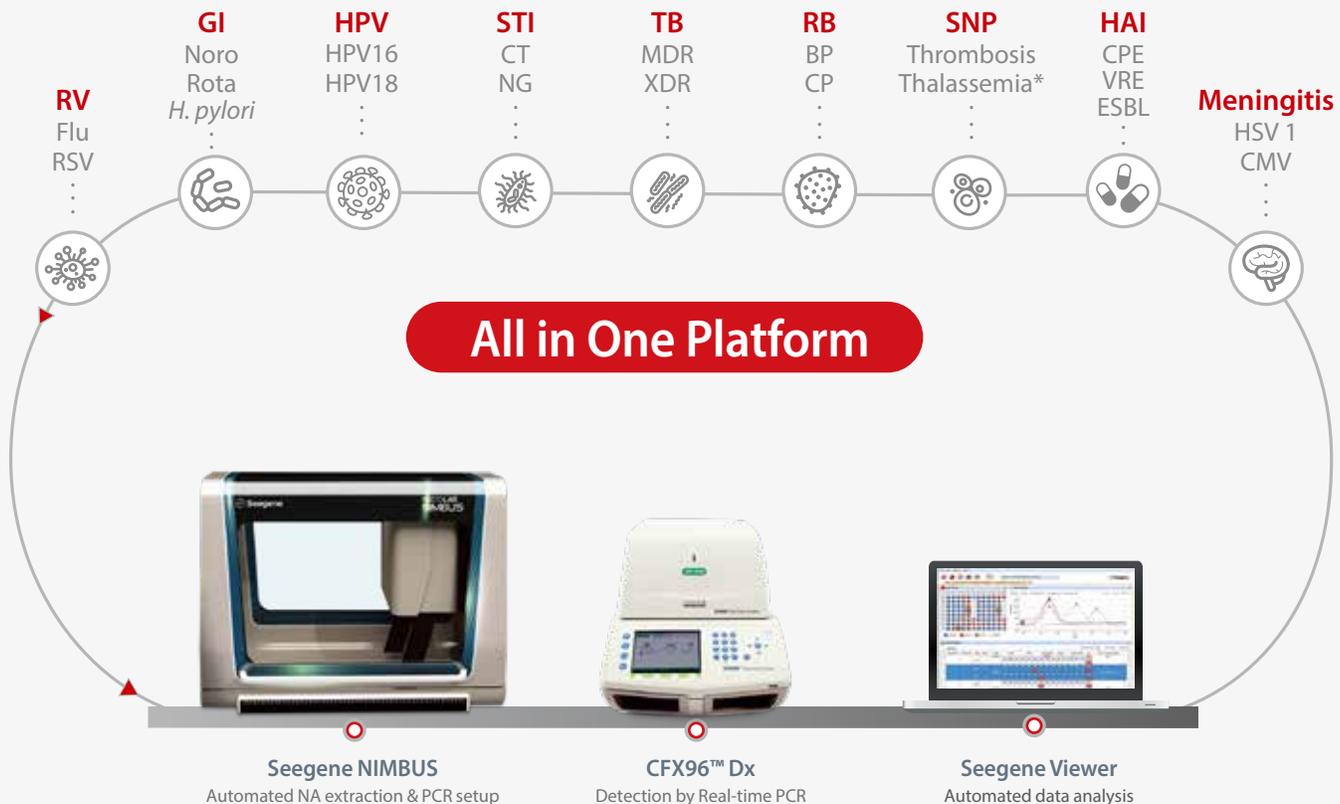
When separate extraction instruments are already set up, it can be exclusively used for PCR Setup.



All in One platform for broad multiplex MDx assays

- One platform to cover various disease area
- Cost-effective to utilize one provider for all solution

* In development



• COMPONENT

Independent liquid channels	4 ea
CO-RE gripper arm for labware movements	1 set
Sample rack (selection):	
Sample rack for 32 samples	2 ea
Sample rack for [5 x 12]	1 ea
Sample rack for [5 x 18]	1 ea
Tip racks	4 ea
Magnetic separator	1 ea
Heater/Shaker (up to 100 °C)	1 ea
PCR plate rack	1 ea
Extraction cartridge rack	2 ea
PCR reagent rack	1 ea
UV Lights	2 ea

• SPECIFICATION

Power input	100-240 VAC, 50-60 Hz, 5 A
Power consumption	Maximum 600 W
Dimensions	1041 (W) X 673 (D) X 800 (H) mm (When the door is open, the height is 1230 mm)
Weight	101.4 kg
Maximum Sample capacity	1-72 samples
TAT	3 hrs to process 72 samples (From NA extraction to PCR setup)
Deck capacity	5 x 12 (for 40 samples) , 5 x 18 (for 72 samples)
Pipetting channel	4 channels
Dispensing accuracy (when using 300 μ l Tip)	10 μ l : 3%, 50 μ l : 1.5%, 300 μ l : 1%
Dispensing precision (when using 300 μ l Tip)	10 μ l : 2%, 50 μ l : 1%, 300 μ l : 1%

• ORDERING INFORMATION

Category	Products	Cat. No.
Instrument	CFX96™ Dx	Optical Reaction Module 1845097-IVD
		Thermal Cycler 1841000-IVD
	Seegene NIMBUS	65415-02
	Seegene STARlet	173000-075
Extraction reagent	STARMag 96 x 4 Universal Cartridge Kit	744300.4.UC384
Consumable	High Volume Tips(1000 μ l)	235905
	Standard Volume Tips(300 μ l)	235903
	NIMBUS-Waste Bag	65803-01
	NIMBUS-96 Deep Well Micro Plate	67930-03



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