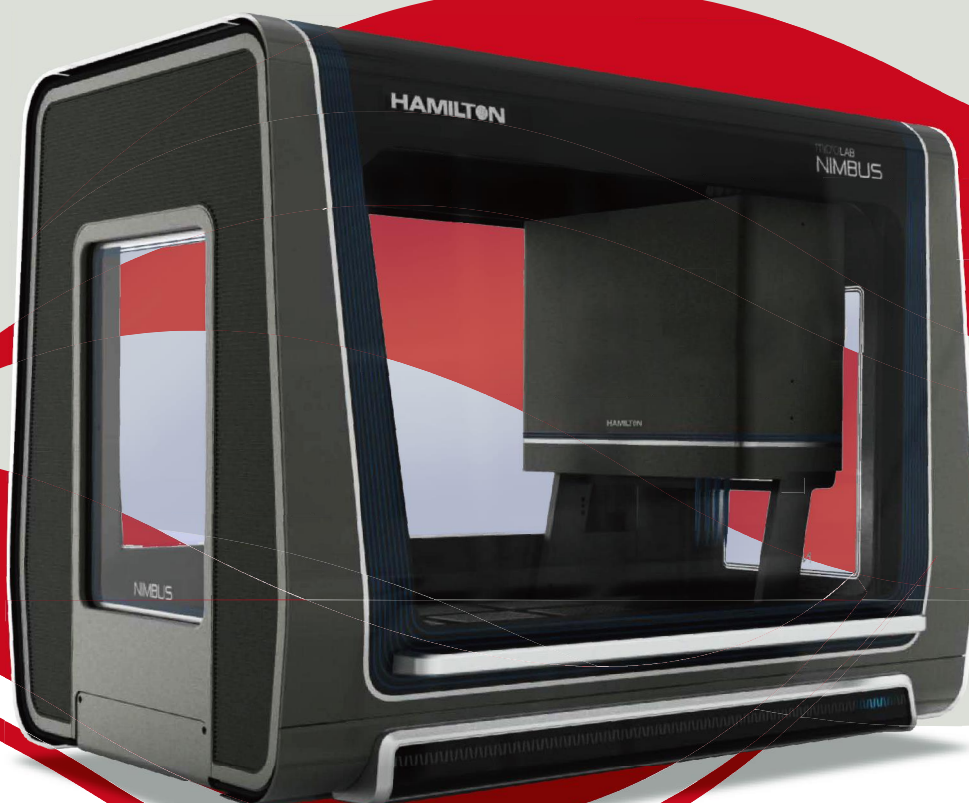


Automated NA Extraction & PCR Setup

# Nimbus IVD

(MICROLAB Nimbus IVD)



Minimize hands-on time &  
maximize reliability.

CE IVD

 **Seegene**

## Automated NA Extraction and PCR Setup

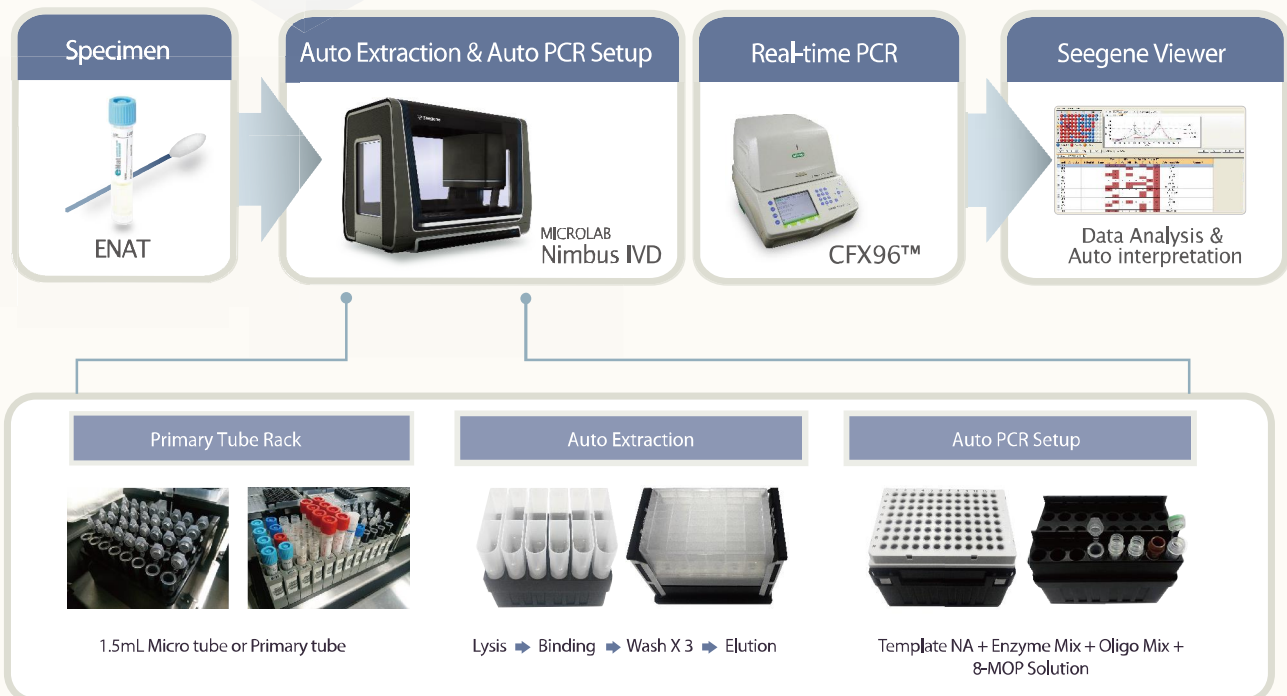
# Nimbus IVD (Hamilton)

### Automated Liquid Handling Workstations from NA Extraction to PCR Setup

MICROLAB Nimbus IVD is an easy-to-use automated pipetting workstation with automated nucleic acid extraction and PCR Setup. This provides convenience of processing to your lab work by minimizing hands-on time. And its innovative technology delivers high performance and reliability.

- A. Automated DNA/RNA extraction and PCR setup
- B. Wide range of pipetting volume : 0.5 ~ 1,000  $\mu$ L
- C. Minimized hands-on time
- D. No manual pipetting required
- E. 48 samples processed in 3 hrs
- F. Enclosed system and liquid waste system preventing contamination
- G. Built in UV lamp for decontamination of residual DNA/RNA
- H. Handheld Barcode scanner
- I. Interlocked with LIS

### Process (Example : Anyplex™ II STI-7 Detection)

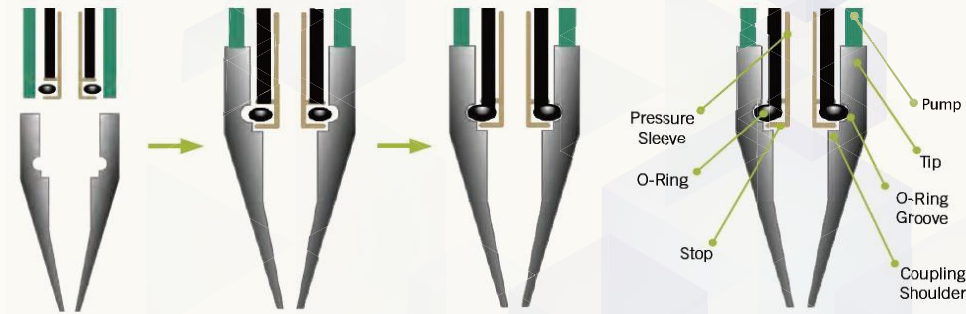




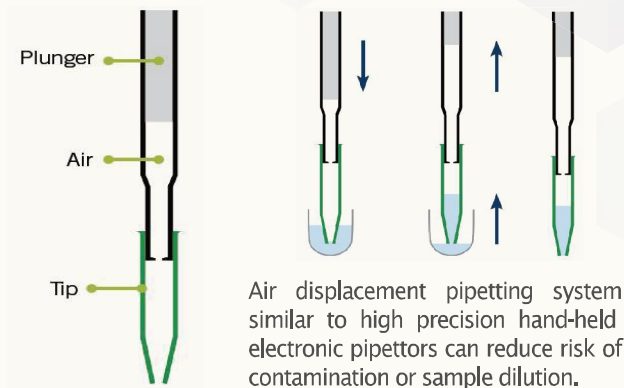
# HAMILTON's innovative technologies for overall system reliability and throughput

- Compressed O-Ring Expansion (CO-RE)

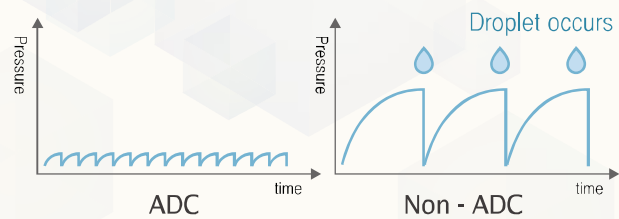
HAMILTON's proprietary CO-RE technology attaches disposable tips using a highly robust lock-and-key style mechanism. This enables improving a positional precision and eliminating mechanical stress and minimizing the production of aerosols.



- Air Displacement Pipetting



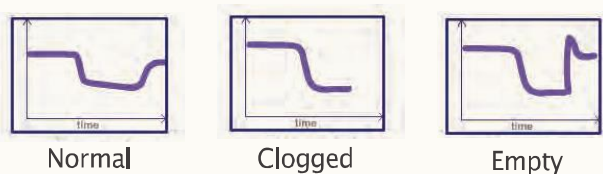
- Anti-Droplet Control (ADC)



This 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.

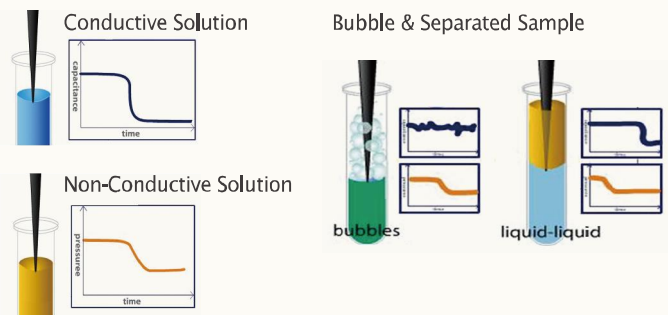
- Monitored Air Displacement (MAD)

By monitoring the air-based pipetting action, Nimbus MD can detect clots or empty wells during the aspiration step in real time.



- Liquid Level Detection (LLD)

LLD technology can determine liquid levels in tube or plates located on the pipetting deck. 3 types of mode, capacitive LLD (c-LLD), pressure-based LLD (p-LLD) and dual mode LLD, can apply according to properties of solvents.



## ● Component

Sample racks for 48 specimens	2 ea
Independent liquid channels	4 ea
Magnetic separator	1 ea
Heater/Shaker (up to 100 °C)	2 ea
Tip racks	4 ea
PCR setup position	1 ea
CO-RE gripper arm for labware movements	1 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
Weight	101.4 kg
Maximum Sample Capacity	48 samples
Throughput	3 hr to process 48 samples. (It includes PCR setup, but it may vary according to the protocol)
Deck capacity	12
Pipetting channel	4 channels
Dispensing accuracy	10 uL : 3 %, 50 uL : 1.5 %, 300 uL : 1 %
Dispensing precision (when using 300 uL Tip)	10 uL : 2 %, 50 uL : 1 %, 100 uL : 1 %

## ● Ordering Information

Products	Cat. No.
MICROLAB Nimbus IVD	65415-02
STARMag 96 Virus (384 T)	744800.4
STARMag 96 Tissue (384 T)	744300.4
High volume Tips(1000ul)	235905
Standard Volume Tips(300ul)	235903
SPL-50ml reagent tub	SPL-tube50-1
Nimbus-Waste Bag	65803-01
Deep Well Plate (48well-Axygen)	P5ML48C
Nimbus-96 Deep Well Micro Plate	SDP0096
① ENAT PM 2ML REGULAR APPLICATOR	606CS01R
② ENAT PM 2ML PERNASAL APPLICATOR	606CS01P
③ ENAT PM 2ML L-SHAPE APPLICATOR	606CS01L

## ENAT

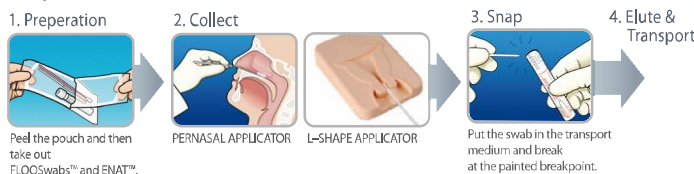


\* Sampling device that are inserted into human body must be sterilized. ENAT and Flocked swab device which Seegene provides are sterilized by gamma radiation and packed individually.

## Sample collection device optimization of automated molecular diagnostic system

- Swab for Sample Collection
- Solution for Sample Transport and Preservation
- Rapid and high efficiency elution, for better sensitivity
- Primary tube direct apply to DNA extraction instrument
- Sterilization with gamma radiation

### Sample Collection Method



Seegene, Inc.

Taewon Bldg., 65-5, Bangyi-Dong, Songpa-Gu, Seoul, Korea  
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Seegene USA

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TEL : +1-301-762-9066, FAX : +1-301-762-9088  
E-mail: usa@seegene.com

Seegene Germany

Ludwig-Erhard Str. 30-34, D 65760, Eschborn, Germany  
TEL : +49 (0) 6196-769-3468, FAX : +49 (0) 6196-769-4137  
E-mail: eu@seegene.com