

DOTZ Results Management System

The DOTZ Results Management System is a secured, simple-to-operate software, designed to streamline the testing process and enable robust results administration. Requiring minimal training, this solution is extremely intuitive, ideal for on-site operation.

Key features & performance

Features	Description
Installation options	Cloud / on prem
Results delivery methods	Email / SMS
System interfaces	Barcodes, readers, printers
Minimum hardware specifications (<30 machines)*	<ul style="list-style-type: none">• 2vCPU• 4GB RAM• 50 GB SSD HDD• 2 Virtual NIC• Ubuntu OS 18 and up• PHP 7 and up• MySQL server
Minimum hardware specifications (>30 machines)*	<ul style="list-style-type: none">• 4vCPU• 8GB RAM• 200 GB SSD HDD• 2 Virtual NIC• Ubuntu OS 18 and up• PHP 7 and up• MySQL server
Additional requirements:	<ul style="list-style-type: none">• Email sending account• SMS sending account• Barcode printer• Barcode scanner



DOTZ.DETECT

Mega-Diagnostic Platform

End-to-end molecular RT-LAMP solution for en-masse, rapid, and precise diagnosis of COVID-19

- Automated diagnostic system
- Proprietary test kits
- Results-management system

for SARS-CoV-2 viral RNA detection at the point-of-care



*Requirements may vary based on usage and data retention required.

sales@dotz.tech

www.dotz.tech

From Lab-Based to Near-Patient

From the outbreak of the pandemic up to this point, en-masse and accurate detection of COVID-19 relied on complex, slow and expensive methods that must be performed in well-equipped laboratories by trained personnel. The RT-LAMP DOTZ Mega-Diagnostic Platform automated, simple-to-use solution brings rapid and highly accurate testing capabilities to the field, supporting a resumption of normal economic activity while helping to keep those transiting highly-trafficked public spaces healthy and safe.

Key Benefits



Comfortable Sampling

Saliva or swab sampling



High Throughput

Up to 96 tests per cycle



Rapid

Results in app. 30 min



Reliable

Molecular RT-LAMP technology
Genes identified: N & ORF1ab



Visual Results

Based on color change



Cost-Effective

Low operational costs



Easy-to-Operate

Automated system



High Accuracy

97% Sensitivity & 100% Specificity (1250 copies/mL)



CE Certified



DOTZ' Automated Diagnostic System (ADS)

The DOTZ Automated Diagnostic System is designed to detect nucleic acids from SARS-CoV-2 from patients' saliva or swab samples. From RNA extraction to visual yes/no results, this device can perform simultaneous testing of up to 96 samples in approximately 30 minutes at the point-of-care.

Key features & performance

Features	Description
Time to results (up to 96 tests)	~30 min
Maximum throughput (8 hrs 24 hrs)	1536 4608
Maximum number of tests per run	96 tests
Results released	Batches of 24, 48 & 96
User interactions	<ol style="list-style-type: none"> 1. Load/unload samples, load plates 2. Remove waste (solid and liquid) 3. Review and release results 4. Transfer subject sample to plates
Power supply	Line voltage: AC 100-240V Line frequency: 50Hz, 3.4A
Environmental requirements	Ambient room temperature: 15°C to 25°C
System dimensions	743mmx465mmx447mm (WxHxD)
System weight	52±1 kg

Onboard inventory	Description
Samples (RD-5/MPA Racks)	Up to 96
Assay reagent cassettes	6 ready-to-use plates (Tip Comb + reagents)
Control	1 negative and 1 positive - depending on user requirements

DOTZ Test Kits

The DOTZ SARS-CoV-2 Test Kit is a single-well end-to-end assay, specially developed to detect all known variants of the SARS-CoV-2 virus. The kit includes 6 ready-to-use plates, as well as full-process negative and positive control.

Key features & performance

Features	Description
Kit configuration	Up to 96 reactions plate
Sample type	Nasopharyngeal and oropharyngeal swab samples, or saliva samples
Minimum amount of sample required	150µl
Test duration	Results are available within less than 35 minutes, including viral RNA extraction
System software	DOTZ results management system
Kit stability	6 months from manufacturing date

