

QuantuMDx

Multiplex Diagnostics for the Real World



Q-POC™

Rapid, High Quality Point of Need PCR Testing

quantumdx.com

Designed for use at the Point of Need

Q-POC[™] was designed
for use in a range of
real-life settings.



Safe

Sealed, single use test cassette designed to reduce contamination risk

Confidence in results

Built-in quality control

Convenient

On-board reagents are lyophilised for room temperature storage, shipping and longer shelf-life

Multiplex capability

Uses microfluidics to perform rapid, six channel PCR testing in real-time

Ease of use

Can be used by any trained healthcare professional

Portable

Light weight and battery operated

Automated Reporting

Integration allows ease of use reporting

Rapid Results you can Trust at the Point of Need

Individuals are tested, diagnosed and given options in one efficient consultation



Portable and simple to use, the Q-POC™ platform is a rapid multiplex PCR testing system that delivers rapid, accurate and actionable results at the Point of Need

The entire test is contained in a sealed cassette, reducing risk and increasing staff productivity



SINGLE-USE CASSETTE

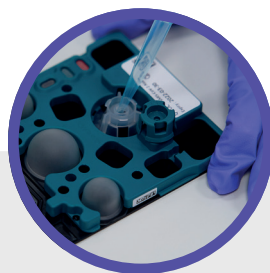
- 01 — Shuttle-flow PCR
- 02 — Future microarray
- 03 — Onboard dried reagents
- 04 — Cap
- 05 — Sample input
- 06 — Future reagents

-  Make informed decisions faster
-  Reduce operational downtime and improve operational efficiency
-  Conserve limited isolated areas and resources
-  Streamline patient pathway management
-  Reduce admissions and bed blocking in hospitals
-  Ease overburdened healthcare systems

Q-POC™ is as Safe as it is Simple to use

The Q-POC™ platform has been engineered to limit the need for highly skilled operators. Each test requires only a few minutes hands-on-time to get your test started, using easy to follow, guided workflows on the touch screen.

ONE TO THREE-MINUTES HANDS ON TIME



TEST RESULTS
IN AS LITTLE AS
30 MINUTES*

Collect
sample

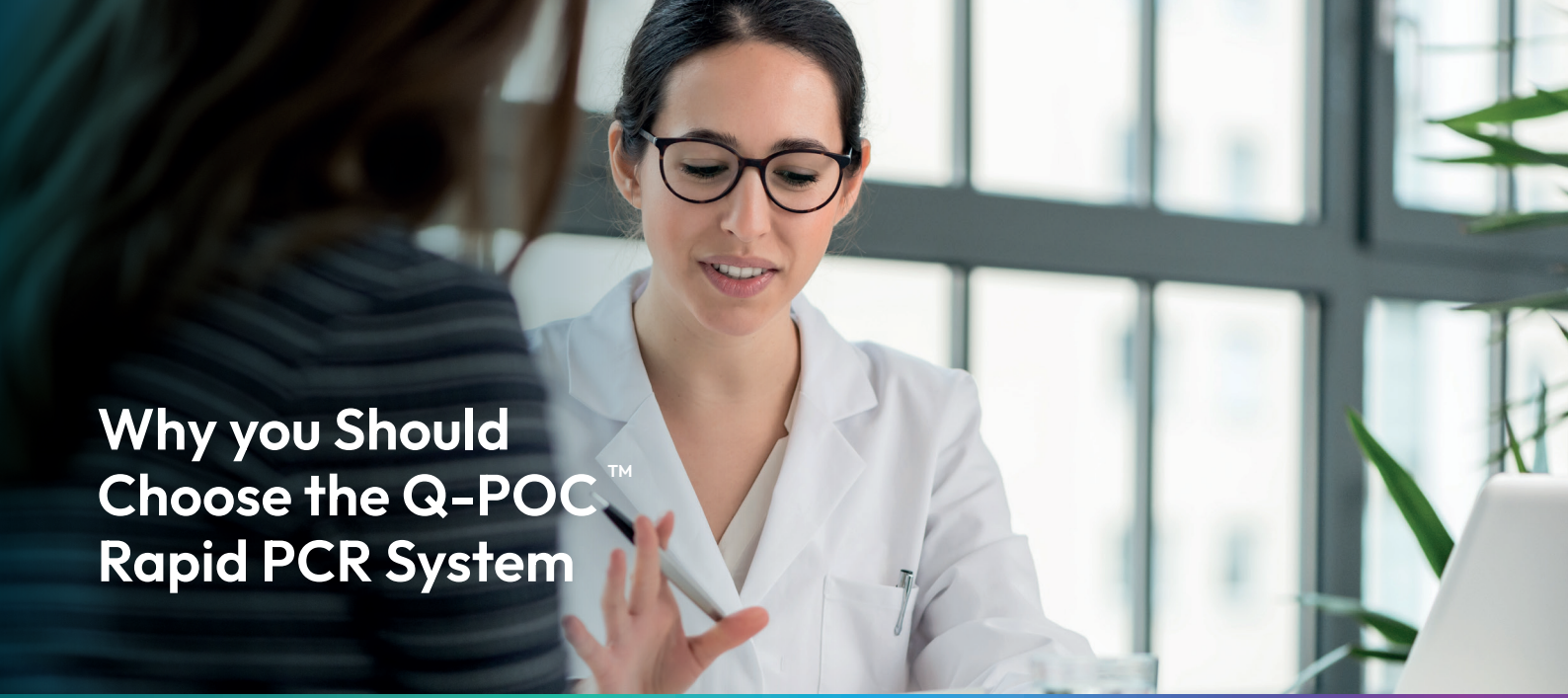
Put swab in
tube, cap &
invert five
times

Transfer
sample to
cassette

Insert into
the Q-POC
and press
GO

Read results
and view
curves.
Seamless LIS
integration

*Assay dependent



Why you Should Choose the Q-POCTM Rapid PCR System

Testing that fits your needs

The Q-POCTM system delivers rapid, accurate results with minimal effort or specialised skills, in a portable, compact design, providing you with the answers you need, when you need them, where you need them.

Point of Need Testing

The Q-POCTM solution is light, and battery operated offering a portable solution

The entire test is contained in a sealed cassette, reducing risk and increasing staff productivity

Connectivity to standard Laboratory Information Systems (LIS) for transfer of results

Ethernet and WiFi enable connectivity

Rapid

Tests are simple to perform, using easy to follow guided workflows

Operators can collect and process specimens in under three-minutes

Intuitive, user-centric multi-lingual software design - like a smartphone

Results you can Trust

6 channel multiplex

PCR

Built in quality controls

01. Rapid time to result

- Minimal hands-on time for specimen preparation
- Test results in as little as 30 minutes*

02. Intuitive user interface

- Large, responsive seven inch wide-screen touch display
- Tests are simple to perform, using easy to follow guided workflows
- Simple, intuitive, software available in local languages

03. Small footprint

- 24cm (W) x 30cm (D) x 20cm (H)

04. Portable

- Less than 8kg

05. Power options

- Mains operated
- Internal battery - Up to five runs on a full charge
- Seamless transition between mains and battery in the event of a power disruption

06. Closed system

- Reduced contamination risk
- Fully sealed cassettes
- Reagents integrated into the test cassettes

07. Multiple connectivity options

- Laboratory Information Systems (LIS), LAN, 3G, 4G and WiFi

08. Integrated barcode scanner

- Identifies test cassettes and initiates the test run process

09. Optional Bluetooth connected printer

*Assay dependent

About QuantuMDx

QuantuMDx is a progressive MedTech company passionate about empowering the world to control disease and reduce suffering.

QuantuMDx solve real-world diagnostic problems by creating multiplex molecular solutions for the Point of Need.

QuantuMDx has global operations and strategic partnerships – keeping it at the forefront of molecular diagnostics.

Q-POC™ System Technical Specifications



Physical properties	Dimensions	(W x H x D) 24 x 20 x 30cm
	Weight	<8 kg
	Operating languages	Multilingual
	Memory storage	128GB of internal SSD memory
Analysis method	Sample preparation	Direct-to-PCR
	Amplification & detection	Qualitative RT-PCR
Maintenance	Calibration	None required
	Maintenance	Daily cleaning, periodic fan filter inspection/replacement, air exhaust filter replacement and battery replacement.
	Power saving	Auto-sleep
Safety	Cross contamination	Sealed, self-contained, single use cassette Minimal risk of cross contamination
	Security	Automatic and manual screen lock options Password-protected user login
Functional specifications	Fluorescence detection channels	6
	Light source	Light Emitting Diodes (LED)
	Temperature hold accuracy	± 0.15°C for hold times up to 1 hour
	Optics	AF350, FAM, HEX, ROX, CY50, AF750
Operational conditions	Temperature	5 – 45 °C
	Relative humidity	Up to 95% relative humidity (non-condensing)
	Altitude	-500 meters to 2000 meters above sea level
	Orientation	≤ 5 degrees from horizontal – any direction
	Atmospheric pressure	0.76 – 1.03 Bar (76 – 103 kPa)
Electrical specifications	Power requirements	100 – 240 Vac; 50 – 60 Hz; 19 Vdc; < 4.74 A
	Battery life	Up to 5 test runs
	Internal battery	Lithium ion; 6900mAh; 99.4Wh capacity
	Power mode	Seamless transition between mains and battery, in event of power disruption
User interface	Interactive display	7-inch-wide super VGA LCD colour touch display with LED backlighting
	Display resolution	1024 x 600 pixels
	Barcode reader (integrated)	Supports Data Matrix (ECC200)
	Data export	2x USB 2.0 port Ethernet Wi-fi
	LIS integration	Unidirectional communications via Ethernet network or WiFi connection
	Audible alert	<70dBa at 1m
	Printer	Optional Bluetooth thermal printer available

* Altitude must be within operational atmospheric pressure range