



Q-VELOX™
FULLY AUTOMATED
INTEGRATED
MOLECULAR
DIAGNOSTIC SYSTEM

MOLECULAR DIAGNOSTIC FOR ANYONE,
ANYTIME, ANYWHERE

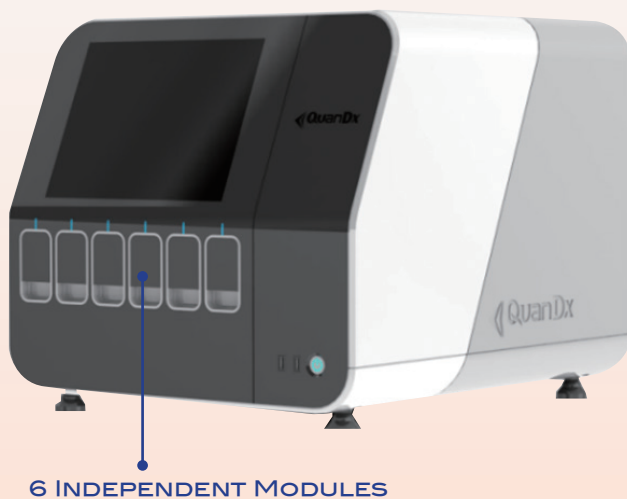
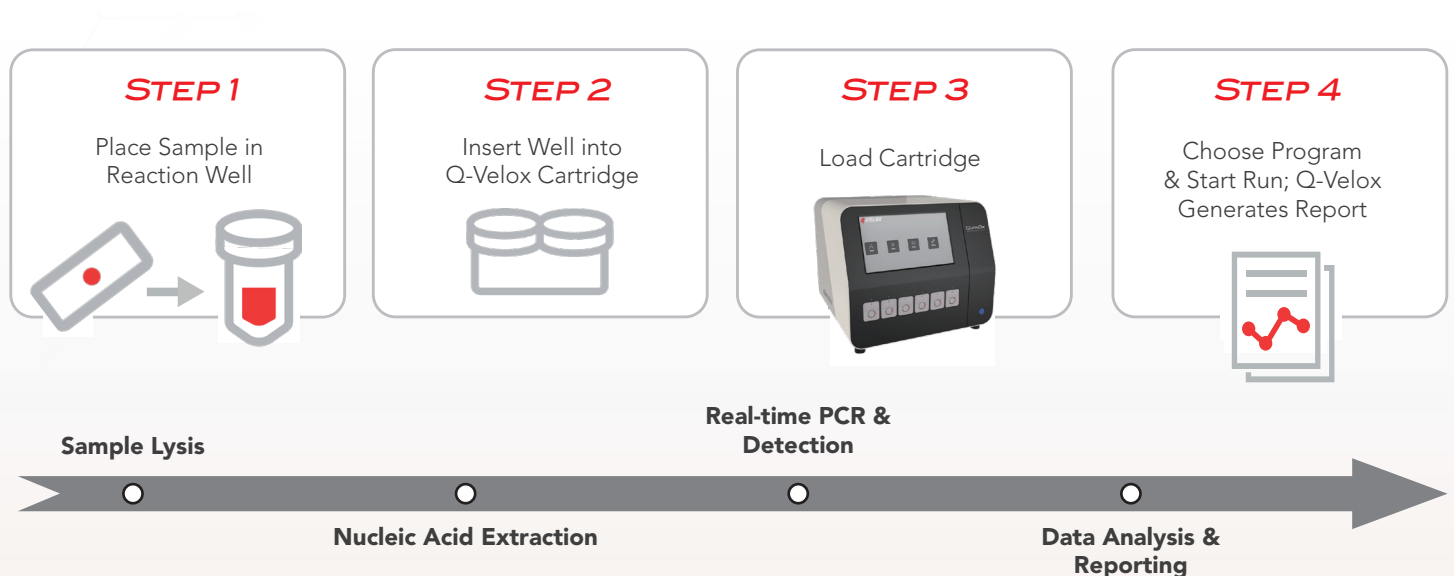
THE SIMPLE APPROACH TO MOLECULAR TESTING

Q-Velox™ is a fully automated, real-time PCR based molecular diagnostic system with all-in-one disposable cartridge. The fully enclosed cartridge contains an unique sample preparation system and a separate reaction chamber, and comes with all reagents pre-loaded on board. Completely automated sample preparation and real-time quantitative PCR reaction and detection are performed by the Q-Velox™, reducing operator hands-on time, reducing time to results, eliminating human error and cross-contamination, and improving test accuracy.

Q-Velox™ is a fully-automated, on-demand, real-time PCR-based molecular diagnostics system, designed to provide quick and standardized molecular diagnostic information for almost any laboratory, including de-centralized laboratories such as small hospital laboratories and clinics.

UNPARALLELED SIMPLICITY OF OPERATION

The operator simply places the original sample into the reaction well, inserts the well into the Q-Velox Cartridge, loads the cartridge into one of the 6 instrument modules, and chooses the appropriate testing parameters from a drop-down test menu. The rest of the work is performed by the Q-Velox™ system.



6 INDEPENDENT MODULES

- **FLEXIBLE AND VERSATILE:** Compatible with multiple sample types, including FFPE, fresh tissue, nasopharyngeal swabs, and various body fluids.
- **FAST:** 40 minutes to 4 hours turnaround time.
- **HIGH SENSITIVITY:** Only one 5 µm section of FFPE input required for testing.
- **ON-DEMAND TESTING:** No need for sample batching.
- **FULLY AUTOMATED:** Easy to operate, and only 1-2 minutes hands-on time to load original samples.
- **SPACE-SAVING:** Small footprint saves valuable lab space.

Q-VELOX™ - ONE MOLECULAR DIAGNOSTIC PLATFORM FOR MULTI-DISEASE APPLICATIONS

A spectrum of testing menu is provided for Q-Velox™ molecular diagnostic platform to cover various cancer area including lung cancer, colorectal cancer and thyroid cancer. Actionable biomarkers are included in the assays according to clinical guidelines of ASCO, ESMO, NCCN and IASLC. Treatment can be initiated as fast as in the same day of biomarker testing.

Thyroid Cancer

BRAF | TERT | RET Gene Fusion

Lung Cancer

EGFR | KRAS | BRAF Mutation

ALK | ROS1 | RET | MET Gene Fusion

Colorectal Cancer

BRAF | KRAS

EXCELLENT CLINICAL TEST RESULTS

Q-Velox™ system has excellent performance and reliability. 97.3% overall agreement was obtained during the clinical performance evaluation comparing Q-Velox™ with a reference method based on RT-PCR.

Summary Of Clinical Performance Study

Q-100 \ 7500	Ex18	Ex19	Ex20	Ex21	T790M	Ex18/Ex20	Ex18/T790M	No mutation detected	Totals
Ex18	3	-	-	-	-	1	-	-	4
Ex19	-	52	-	-	-	-	-	-	52
Ex20	-	-	-	-	-	-	-	1	1
Ex21	-	-	-	88	-	-	-	1	89
T790M	-	-	-	-	-	-	-	-	-
Ex18/Ex20	-	-	-	-	-	1	-	-	1
Ex18/T790M	-	-	-	-	-	-	-	-	1
No mutation detected	-	1	1	2	-	-	-	149	153
Totals	3	53	1	90	1	2	-	151	301

EGFR Mutation	Reference Test			Totals
Q-Velox™ EGFR Mutation Test		Positive	Negative	
	Positive	144	2	146
	Negative	6	149	155
	Totals	150	151	301



CLINICAL
PERFORMANCE

Sensitivity: 96.00%

Accuracy: 97.34%

Specificity: 98.68%

Precision: 98.63%

Q-VELOX™ FULLY AUTOMATED INTEGRATED MOLECULAR DIAGNOSTIC SYSTEM

SPECIFICATIONS

Instrument Size (w x d x h)	607×560×524mm
Weight	52 Kg
Number of Modules	6
Sample Type	FFPE/ Swab/Fresh Tissue/Pleural Fluid
Operation Temperature	10 ~ 30 °C
Operation Humidity	< 85%
Power Supply	110-240 V

The cartridge can be stored at room temperature.



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