



Actual size

## Newton RDT Platform

**Improved performance and usability with built-in safety lancet, unique blood collection and delivery system, integrated buffer delivery, and digital results display**

The AtomoRapid 'Newton' RDT platform has been designed to make rapid testing easier and more accessible. The platform incorporates an electronic reader and digital display to eliminate risks associated with misinterpretation of test results.

Interlocked user steps help to mitigate common user errors, making the platform suitable for professional point of care and self test applications. It can be customised for most lateral flow test strips that use capillary blood samples.

PLATFORM FEATURES	BENEFITS
All-in-one test device	<ul style="list-style-type: none"> <li>Greater convenience and usability</li> <li>Integration of features minimises training required for new users</li> <li>Supports clinical waste control by reducing the number of potentially hazardous and contaminated test components for disposal</li> </ul>
Contact activated, auto-retracting safety lancet	<ul style="list-style-type: none"> <li>Safeguards against needlestick injuries and cross-contamination</li> <li>Built-in safety lancet supports compliance to best practice in capillary sampling</li> </ul>
Innovative blood collection unit	<ul style="list-style-type: none"> <li>Simplifies test procedure and ensures easy blood collection</li> <li>Improves blood volume accuracy</li> </ul>
Controlled delivery of blood to the test strip	<ul style="list-style-type: none"> <li>Eliminates blood splatter by transferring blood sample cleanly</li> <li>Delivers blood to the correct point on the test strip</li> </ul>
Integrated buffer delivery mechanism	<ul style="list-style-type: none"> <li>Guarantees delivery of the correct buffer volume, enhancing test performance</li> <li>Removes the need for separate buffer bottle, providing greater convenience</li> <li>Simplifies test procedure and mitigates risk of user error</li> </ul>
Interlocked, sequenced user steps	<ul style="list-style-type: none"> <li>Supports compliance with test procedures</li> <li>Ensures fewer user errors</li> </ul>
Electronic reader and digital LCD results display	<ul style="list-style-type: none"> <li>Eliminates user errors associated with misinterpretation of results</li> <li>Improves usability for professional and untrained lay users</li> <li>Can be incorporated into eHealth solutions</li> </ul>

PLATFORM SPECIFICATIONS			
<b>DEVICE</b>			
Type	Single use, disposable lateral flow RDT platform	Dimensions	125mm x 30mm x 25mm
<b>CONTACT ACTIVATED SAFETY LANCET</b>			
Needle gauge	21G (0.8mm)	Needle penetration depth	2.4mm
<b>BLOOD COLLECTION UNIT</b>			
Blood volume	Calibrated from 5µL to 40µL	<b>INTEGRATED BUFFER</b>	
		Standard buffer volume	Up to 120µL
<b>TEST STRIP</b>			
		<b>RESULTS DISPLAY</b>	
Dimensions	4 (±0.2)mm x 73.5 (±0.5)mm	Display type	<ul style="list-style-type: none"> <li>Liquid-crystal display (LCD)</li> <li>Can be customised to suit specific test requirements</li> </ul>



Lance Finger



Collect Blood



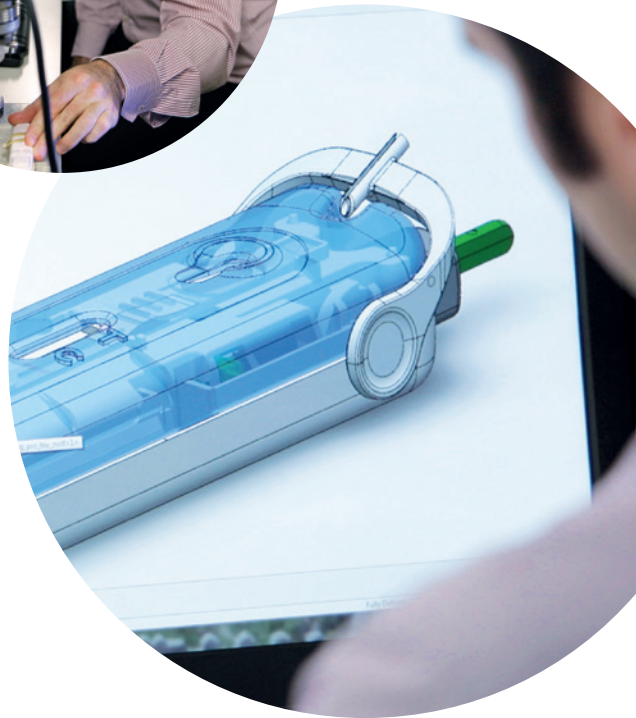
Deliver Blood



Deliver Buffer



Read Result



## About Atomo Diagnostics

Atomo is a specialist medical device design and original equipment manufacturing (OEM) company with unique and proprietary technologies that improve rapid diagnostic testing by emphasising ease-of-use, accuracy and performance.

Atomo's existing patent and platform device portfolios mean that it is able to provide OEM clients with an efficient and low-risk pathway from product development to commercialisation of tests on its AtomoRapid platforms.

Atomo's all-in-one RDT device platforms put the end user first and make it easy to screen for various chronic conditions and test for a range of infectious diseases.

## Quality Assurance & Regulatory

Atomo's operations are ISO 9001 and ISO 13485 certified for the design, development and manufacture of in vitro diagnostic medical devices. All OEM projects include support in the development of technical files and risk management documentation.



## Design & Innovation Awards

Atomo's commitment to innovation in point of care diagnostics has been recognised internationally with multiple awards.



## Connect with us

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