

# Newton RDT Platform

The Newton platform improves the usability of lateral flow blood tests by eliminating the risk of misinterpretation of results with an electronic reader and digital display.



The AtomoRapid 'Newton' RDT platform has been designed for all-in-one convenience, offering a built-in safety lancet, unique blood collection and delivery system, integrated buffer delivery mechanism and LCD results display.

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
<b>All-in-one test device</b>	<ul style="list-style-type: none"> <li>• Greater convenience and usability</li> <li>• Integration of features minimises the need for training</li> <li>• Supports clinical waste control by reducing the number of contaminated and potentially hazardous test components for disposal</li> </ul>
<b>Interlocked, sequenced user steps</b>	<ul style="list-style-type: none"> <li>• Supports compliance with test procedures</li> <li>• Ensures fewer user errors</li> </ul>
<b>Contact activated, auto-retracting safety lancet</b>	<ul style="list-style-type: none"> <li>• Safeguards against needlestick injuries and cross-contamination</li> <li>• Supports compliance to best practice in capillary sampling</li> </ul>
<b>Innovative blood collection unit</b>	<ul style="list-style-type: none"> <li>• Simplifies test procedure and ensures easy blood collection</li> <li>• Improves blood volume accuracy</li> </ul>
<b>Controlled delivery of blood to the test strip</b>	<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>
<b>Integrated buffer delivery mechanism</b>	<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, providing greater convenience</li> <li>• Simplifies test procedure and mitigates risks of user error</li> </ul>
<b>Electronic reader and LCD display</b>	<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 customised as part of an eHealth solution</li> </ul>

PLATFORM SPECIFICATIONS	
<b>Type</b>	Single use, disposable lateral flow RDT platform
<b>Device dimensions</b>	125mm x 30mm x 25mm
<b>Safety lancet needle gauge</b>	21G
<b>Needle penetration depth</b>	2.4mm
<b>Blood volume collected</b>	Calibrated from 5µL to 40µL
<b>Buffer volume delivered</b>	Calibrated up to 120µL
<b>Test strip dimensions</b>	4 (±0.2)mm x 73.5 (±0.5)mm
<b>Display Type</b>	Customisable liquid-crystal display (LCD)



Lance Finger



Collect Blood



Deliver Blood



Deliver Buffer



Read Result

## Award Winning Design

Atomo rapid diagnostic tests have been recognised internationally for innovative design, performance and ease-of-use.



Discover how partnering with Atomo Diagnostics can provide your business with an efficient and low-risk pathway from product development to commercialisation of your rapid diagnostic test

### 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 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.



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