

Nio+

The next leap forward in digital PCR.

Automation-friendly.

Capacity of 768 chambers.

Continuous loading.

All-In-one.

7 colors.



For Research Use Only. Not for use in diagnostic procedures.



Say hi to Nio+

When we set out to build our next digital PCR instrument, we aimed to create something truly unique. With the release of Nio+, we are confident that we have succeeded.

Nio+ is a versatile, all-in-one, fit-for-throughput, digital PCR instrument with unparalleled user-friendliness.

It is easy to use, fast and highly automated. It also features some of the best hardware and software we have built.

And we cannot wait to see what you will do with it.

The Stilla Technologies team









Core capabilities.

Processing hundreds of samples a day? Running highly multiplexed experiments? Doing both? Nio+ supports labs regardless of size, and has your use cases covered.



Automation-friendly.

Our Chip Plates work much like standard SBS plates. They hold 48 samples, are distanced at 9mm to suit your multichannel pipette, and work nicely with your existing Hamilton, Tecan, Opentrons or other similar liquid handling machinery.



Capacity of 768 chambers.

In any 8 hour span of laboratory work, Nio+ offers a capacity of 768 chambers processed. With 2 thermocyclers and a smart Chip Plate queue built in, you could process over 768 chambers.



Continuous loading.

Laboratory work is not easy to schedule. Nio+ allows you to add Chip Plates whenever you want, whether the instrument is running an experiment or not. Your team can prepare experiments on the machine as it is running, or in serenity on any PC in the lab office.



All-In-one.

No messing around with oils, no transferring plates, no nothing. You add sample & mix to the Chip Plates, insert them and press play. Digital PCR in an all-in-one instrument. Measuring just 56cm by 67cm, the Nio+ fits in any lab.



7 colors.

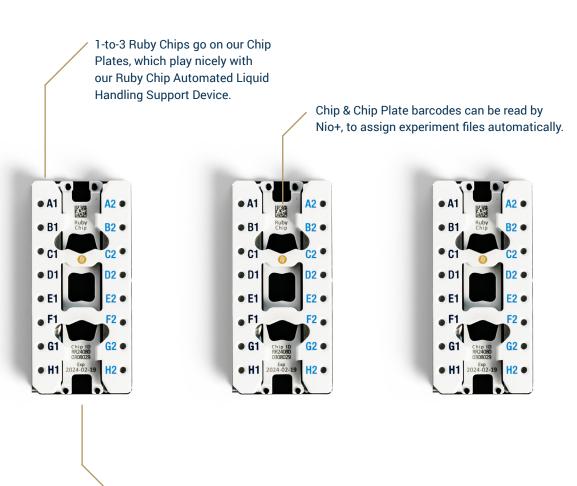
Nio+ is the only 7-color instrument on the market, giving you easy access to 7 target capabilities. For even higher plexed assays, you can combine colors to achieve well over 20 targets in a single chamber; natively supported in our software.



Microflowidics.

Automation-friendly.

The same dimensions as the lab consumables you already use, and compatible with your existing equipment. Our Ruby Chip is the most user-friendly microfluidics consumable we have built to date.









Pierce chips confidently.

Chip? Plate? Chip Plate.

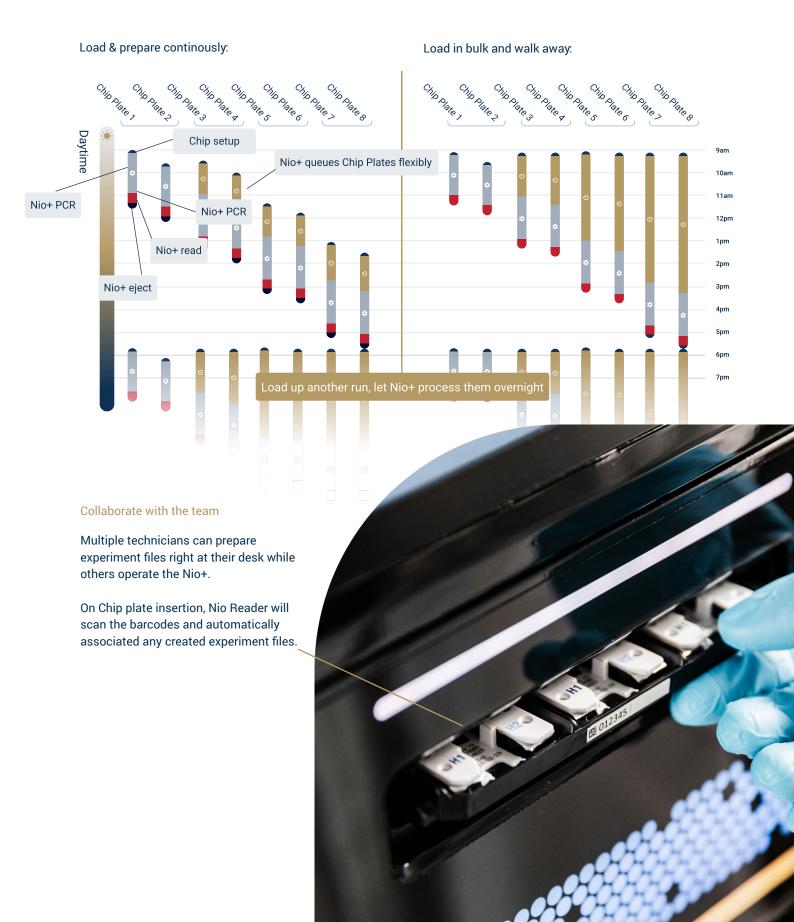
Manually pipetting? We have designed a simple tool that pierces the aluminium seal easily.

Holds 1 to 3 chips and allows for simplified handling. Much like a 96-well plate.

Volume for days.

Capacity of 768 chambers.

Nio+ supports a high-throughput capacity of 768 chambers processed per 8-hour workday. Below are examples of how that capacity can be reached, and the flexibility of Nio+.





Ready, when you are.

Continuous loading.

Nio+ is the only digital PCR instrument that works like labs work: with the capacity to handle samples incoming at changing intervals. Anytime you are ready, for up to 8 Chip Plates, Nio+ assumes the tempo your lab operates at.



Packs a bunch.

All-In-one.

Nio+ is the smallest all-in-one digital PCR instrument at its capacity. With a footprint of just 56cm by 67cm, it fits in even the smallest lab.



Dual thermocyclers.

Nio+ has dual thermocyclers that can operate independently.



7 color reader.

The reader is built right into Nio+, and automatically reads your chips.



Automated plate queue.

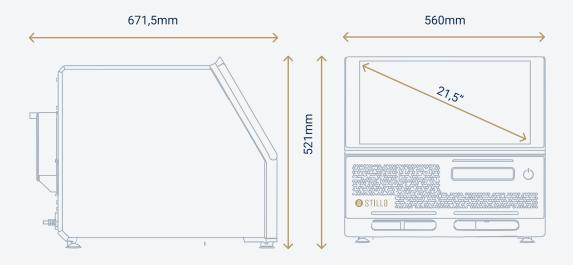
Insert & forget. Nio+ queues your plates. Even if both thermocyclers are running.



21,5 inch touch display.

Set up your experiments on the machine, or on any Windows computer.

Specifications





Color, full.

7 colors.

Nio+ is the only instrument that allows for the reading of 7 colors. State of the art imaging system, with support for the colors and dyes you use today:

LED	Excitation wavelengths [nm]	Emission wavelengths [nm]
Blue	430-510	504-524
Blue	490-550	519-561
Green	521-569	553-597
Yellow	555-605	580-660
Red	616-652	640-700
Infra-Red	620-720	685-775
Long-Shift Red NEW	480-560	640-700

Quantify 4x more targets in a single assay using color combination

In simple color multiplexing, a target is detected using a single fluorophore in a single channel. In color combination multiplexing, a target is detected using two separate fluorophores detected in 2 different channels. Such a strategy allows the development of assays to detect and individually quantify much more targets using Nio+. Thanks to a population editor based on fluorescence co-localization criteria, our software seamlessly integrates the analysis of color combination assays. A 16-target example:

Targets	FAM	ΥΥ®	Atto550	ROX	Cy®5	Cy _® 5.5	DY-521-XL
T1							✓
T2	✓	✓					
T3	✓		✓				
T4	✓			✓			
T5	✓				✓		
T6	✓					✓	
T7		✓	✓				
T8		✓		✓			
T9		✓			✓		
T10		✓				✓	
T11			✓	✓			
T12			✓		✓		
T13			✓			✓	
T14				✓	✓		
T15				✓		✓	
T16					~	✓	





Instrument that gets you started.

Reagents, accessories & kits to keep you going.

Nio+ comes with everything you need to get started. From PCR mix to kits.



Available in both 5X and 10X concentrations.

Ruby Chip

16 samples per chip, 12 chips in a box. 5µl of input / chamber, with up to 17000+ droplets. Dynamic range of detection (95%) ~ 5 logs.

Oncology assays

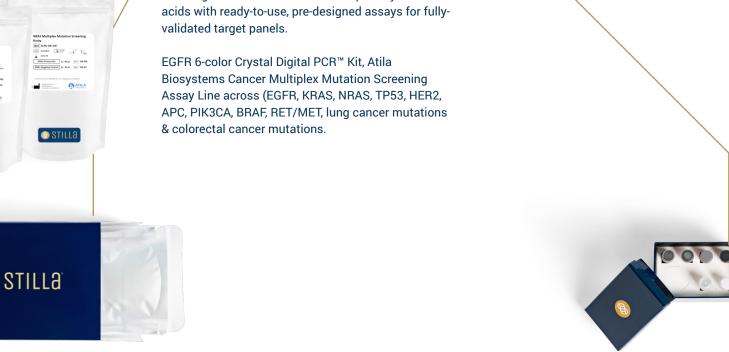
Allowing researchers to detect and quantify nucleic

naica® PCR MIX (TaqMan® compatible)

Available in both 5X and 10X concentrations. For use with probebased chemistries.

Your cell and gene therapy assays

Validate your cell/ gene therapy's viral vector integrity and build out your QC assays with our team.







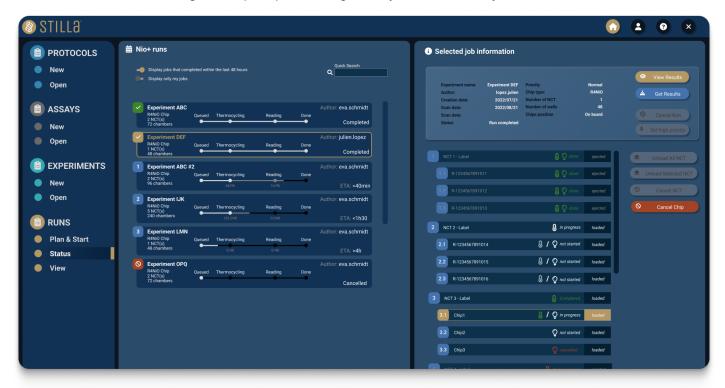




Software that works with you.

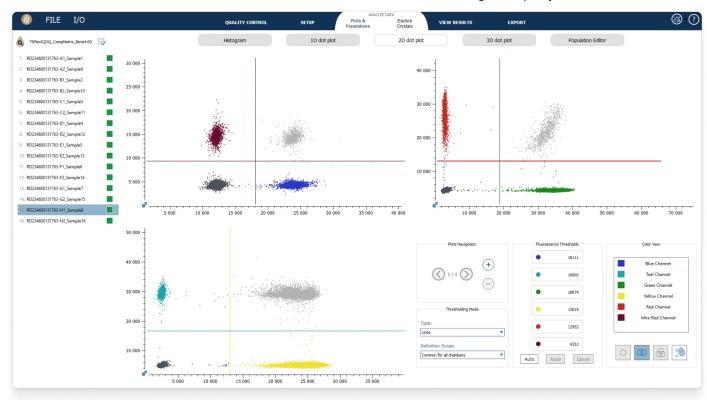
Nio Reader software

Configure multiple experiments right from your desk or directly on the Nio+.



Nio Analyzer software

Visualise data across dimensions, automated or manual thresholding and export your data.

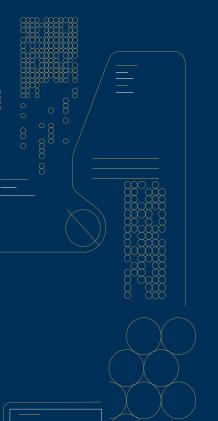


Get started with digital PCR.

Get in contact with our experts.

Getting started with digital PCR or want to expand your lab's capabilities? Our application and R&D teams are ready to get you set up. With a range of training services, co-development and more, we will ensure your digital PCR experiments are a success.

Visit www.stillatechnologies.com





About us

Stilla Technologies is the digital PCR workflow company transforming quantitative genomic data into insights across cancer and liquid biopsy studies, cell and gene therapies, infectious disease detection, and food and environmental testing.



