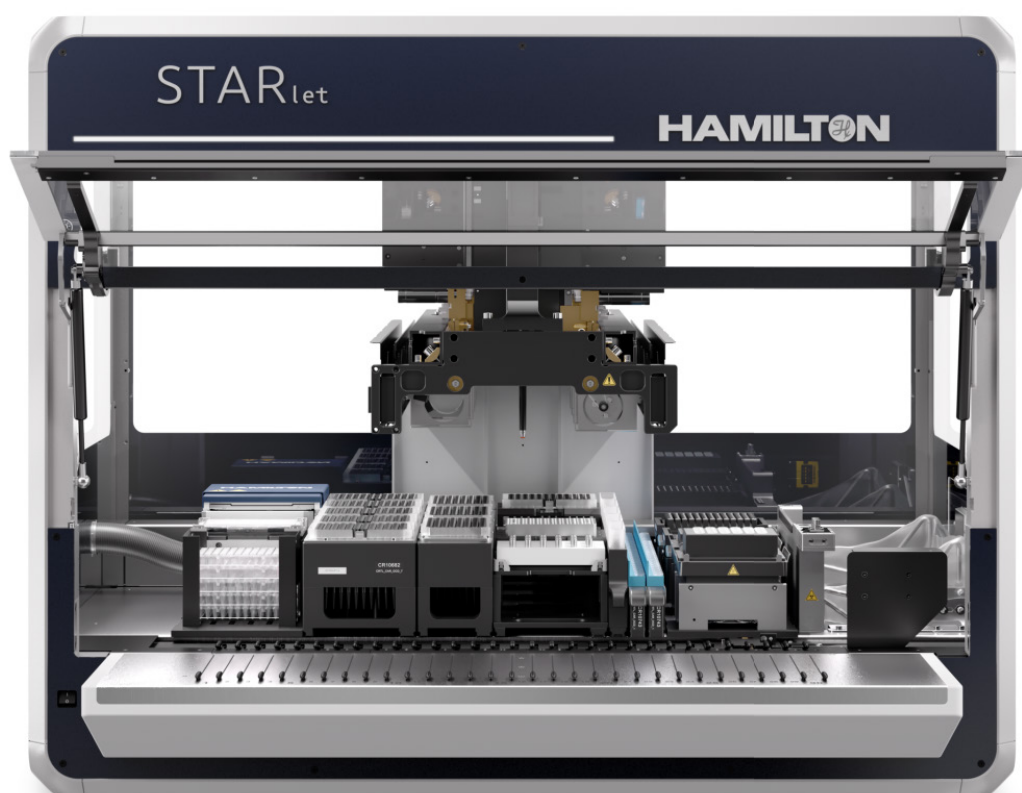




Simplify High-Plex Molecular Testing

Process up to 100 molecular targets in a single well with a validated, automated workflow tailored for the NGS STARlet



Consistency

Standardized protocols minimize manual sample preparation bias



Efficiency

Automated workflows increase throughput and laboratory productivity



Data Quality

Automated processing ensures reliable, high-quality sequencing data

Molecular Biology is increasingly limited, not by what we want to understand, but by what we can measure at once. As measurement needs grow in complexity, conventional qPCR and dPCR workflows are hard to scale in breadth and precision, while sequencing, though powerful, often remains too slow, costly, or operationally cumbersome for routine use.

Laboratories require a measurement approach that expands molecular insight without increasing complexity, turnaround time, or cost per sample. Hyperplex PCR (hpPCR) was created to meet this need, enabling broad, high-precision molecular measurement within a single reaction, designed to integrate seamlessly into modern, scalable laboratory workflows.

Fast, Reliable, Standardized

Hamilton and Apex Bio together deliver a tailor-made, validated, automated liquid-handling solution for hpPCR™ assay kits on Hamilton robotic platforms. The result is high-plex molecular testing as a sample-to-answer workflow, deployable in existing labs without new infrastructure. The full hpPCR™ assay runs as three automated steps on the Hamilton NGS STARlet, then images and analyzes on an Apex-certified system.

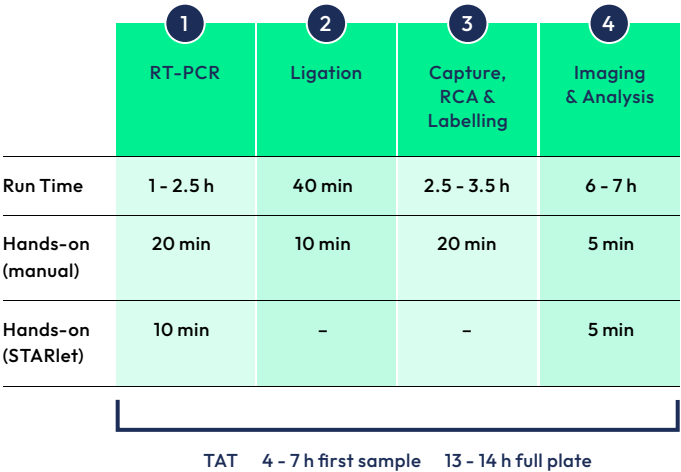
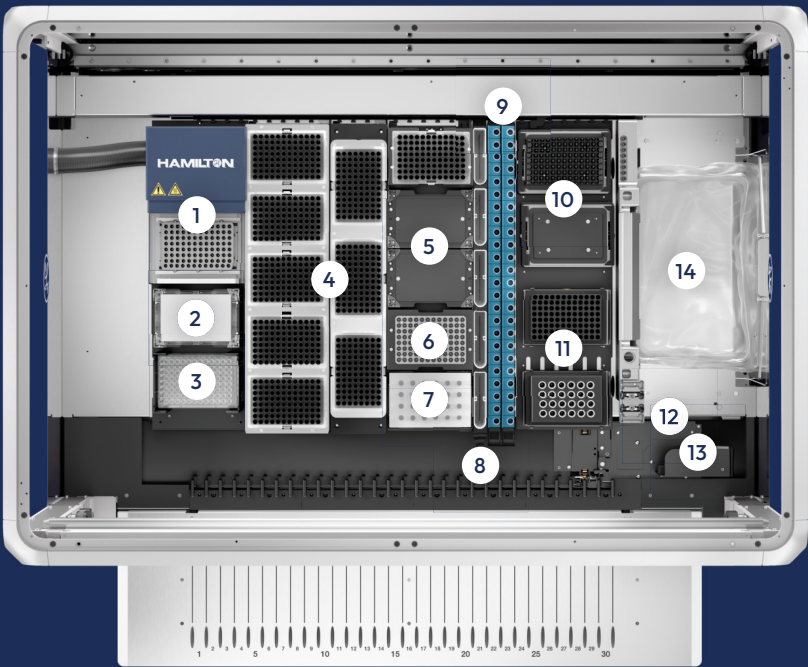


Fig. 1: Workflow Runtime & Hands-On Time
Compare the runtime and required hands-on time for each workflow step, highlighting the reduction in manual intervention achieved through automation.



- 1 On Deck Thermal Cycler (ODTC)
- 2 ComfortLid
- 3 PCR Plate Stacker
- 4 Tips
- 5 DWP Plates
- 6 PCR Plate Pipetting
- 7 Ambion Magnet
- 8 Reagent Carrier
- 9 Sample Carriers
- 10 ComfortLid
- 11 SBS Cooling Positions (CPACs)
- 12 CO-RE-Gripper for plate transport
- 13 Autoload with 1D/2D Barcode Reader
- 14 Tip Waste

Fig. 2: Decklayout NGS STARlet

Specifications

Physical Dimensions	
Description	Measurement
Length	79.5 cm
Width	112.4 cm
Height	90.3 cm
Height including UV Light	110 cm approx.
Weight	170 kg approx.
Pipetting Channels	
Description	
CO-RE® Technology	
Independent Channels	
capacitive Liquid Level Detection (cLLD)	
pressure Liquid Level Detection (pLLD)	
Tip Type Detection	
Configurations	
Instrument	Description
NGS STARlet	ML STARlet with 8 independent channels, 2 HHSs, 2 CPACs
Add-On Options	
Description	
ODTC Option	For On-deck Thermal Cycling
UV Option	For Deck Decontamination

System Specification	
Description	
Temperature	+15 - +35°C
Humidity	15% - 85% with no condensation
Altitude	0 - 2000 m above sea level
Pipetting Channels	
Tip Size	Precision CV (%)
50 µL	1 µL Volume ([R] 5%; CV 4%)
300 µL	50 µL Volume ([R] 2%; CV 0.75%)
1000 µL	100 µL Volume ([R] 2%; CV 0.75%)

Ordering Information

PN	Instrument
806798	NGS STARlet

Throughout this document, protected product names may be used without being specifically marked as such.
Research use only. Not for use in diagnostics procedures. All rights reserved. All other trademarks are the sole property of their respective owners.
©2026 Hamilton Company. All rights reserved. All trademarks are owned and/or registered by Hamilton Company in the U.S. and/or other countries. Lit. No. F-2608-01 - 08/2026

HAMILTON

Hamilton Americas & Pacific Rim
Hamilton Company Inc.
4970 Energy Way
Reno, Nevada 89502 USA
Tel: +1-775-858-3000
Fax: +1-775-856-7259

Hamilton Europe, Asia & Africa
Hamilton AG
Via Crusch 8, CH-7402 Bonaduz
Switzerland
Tel: +41-58-610-10-10



Web: www.hamiltoncompany.com

Connect with our team at: www.hamiltoncompany.com/contact