

# Clinical NGS STARlet

Library Preparation for the Regulated Environment



## **Safety.**

Traceability of samples and reagents.



## **Convenience.**

Minimal hands-on time for almost any NGS library preparation workflow.



## **Efficiency.**

Automated library prep for immediate need samples or smaller sample throughput.

# Compact. Efficient. Automation.

- **Based on an ML® STARlet IVD-R for small-to-mid-size throughput (24-sample processing)**
- **Barcode Reader for traceability of samples and reagents**
- **Integrated On-Deck Thermal Cycler with automation-friendly PCR ComfortLid**
- **UV Light for deck decontamination**
- **Qualified methods for time-efficient workflow implementation**

Automation of the library preparation process is key in every NGS workflow. Even labs processing smaller sample batches benefit from better usability, reproducibility, and traceability.

Hamilton targets these needs with the new Clinical NGS STARlet, an automated library preparation system for immediate need samples, as well as for small-to-mid-size sample throughput (up to 24 samples). This Hamilton sample-to-result solution saves time and valuable lab space, and it increases your efficiency while the process reliability for both you and your samples is guaranteed.



1. INHECO ODTC (On-Deck Thermal Cycler)
2. Hamilton PCR ComfortLid
3. Hamilton Heater Shaker
4. INHECO CPAC (Cold Plate Air Cooled)
5. Hamilton Barcode Reader
6. Hamilton UV Light (Product version)

The workspace on the Clinical NGS STARlet is equipped with all modules and devices required for an automated library preparation workflow.

The On-Deck Thermal Cycler (ODTC) instrument, together with the Hamilton PCR ComfortLid, reduces hands-on time and ensures precise and uniform incubation steps.

The Barcode Reader traces samples and reagents but also ensures correct labware and tips placement on-deck.

Additionally, CO-RE® Gripper for plate transport steps, a Magentic Stand for magnetic bead handling, as well as two Hamilton Heater Shaker™ (HHS) and two CPACs for temperature-controlled workflow steps complete the workstation.

The Clinical NGS STARlet is available in two product versions, one comes with UV light for deck decontamination. The compact footprint of the Clinical NGS STARlet is optimized for automated NGS workflows and it saves space in your lab.



# Specifications

## Physical Dimensions

Description	Measurement
Length	79.5 cm
Width	112.4 cm
Height Microlab® STARlet	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

## Pipetting Volumes

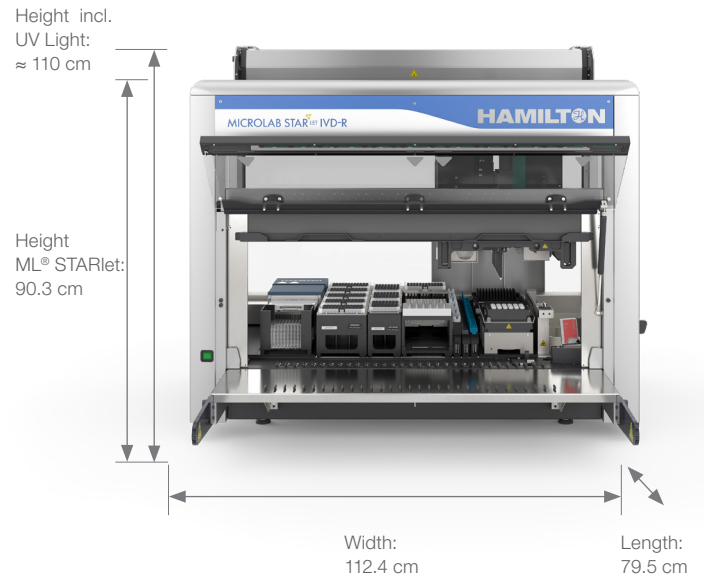
Tip Size	Precision CV (%)
50 µL	1 µL Volume ([R] 5%; CV 4%)
300 µL	50 µL Volume ([R] 2%; CV 0.75%)
1000 µL	100 µL Volume ([R] 2%; CV 0.75%)

## Ordering Configurations

Description	Part Number
Clinical NGS STARlet (ML STARlet IVD-R, 8 independent channels) + ODTC + 2 HHS + 2 CPACs	806691
Clinical NGS STARlet UV (ML STARlet IVD-R, 8 independent channels) + ODTC + 2 HHS + 2 CPACs + UV Light	806692

## Required Consumables

Labware	Manufacturer	Part Number
Filter Tips 50 µL	Hamilton	235948
Filter Tips 300 µL	Hamilton	235903
Filter Tips 1000 µL	Hamilton	235905
Biohazard Waste Bags	Hamilton	53686-01
PCR Frame Plate, 96-well	Hamilton	814302
MIDI (0.8ml) 96-well Plates	Thermo Fisher Scientific	AB0859 (AB0765)
SC Micro Tube PCR-PT, 2.0 ml	Sarstedt	72.694.406
MagNA Pure LC Medium Reagent Tube 20	Roche	03004058001
60 ml Reagent Reservoir Self-Standing/with Lid	Hamilton	194051 / 56694-01
ComfortLid	Hamilton	814300



## System Specification

Description
+15 - +35°C
Humidity: 15%-85% with no condensation
Altitude: 0-2000 m above sea level

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