

SynplStation 2400+

Automated NGS Library Preparation Workstation.
Simple and Fast



SynplStation 2400+

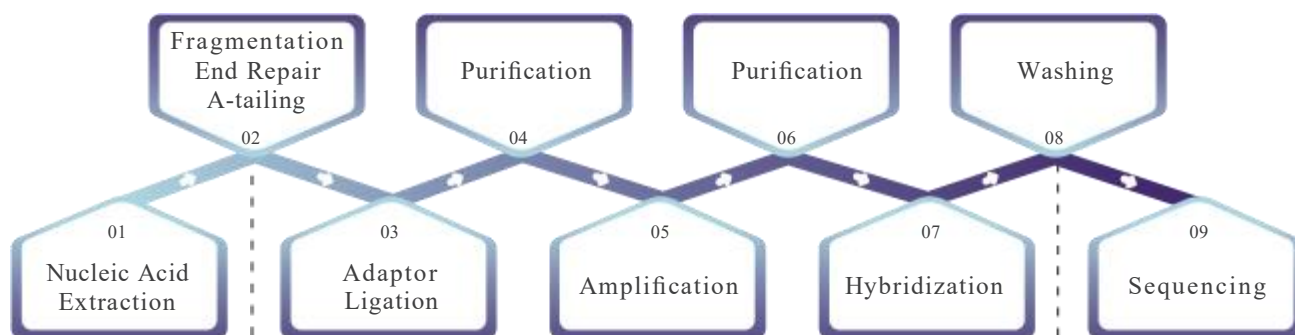
SynplStation 2400+ is a flexible and efficient Automated Library Preparation Workstation. With its sophisticated design and built-in modules, it can complete all steps of Next-Generation Sequencing (NGS) library preparation, free you from repetitive operations and significantly save your time.

APPLICATION

Comprehensive, Customized, Stable and Sophisticated Automated Library Preparation Workstation

Ideal choice for NGS automation in infectious diseases, tumors, genetic diseases, etc.

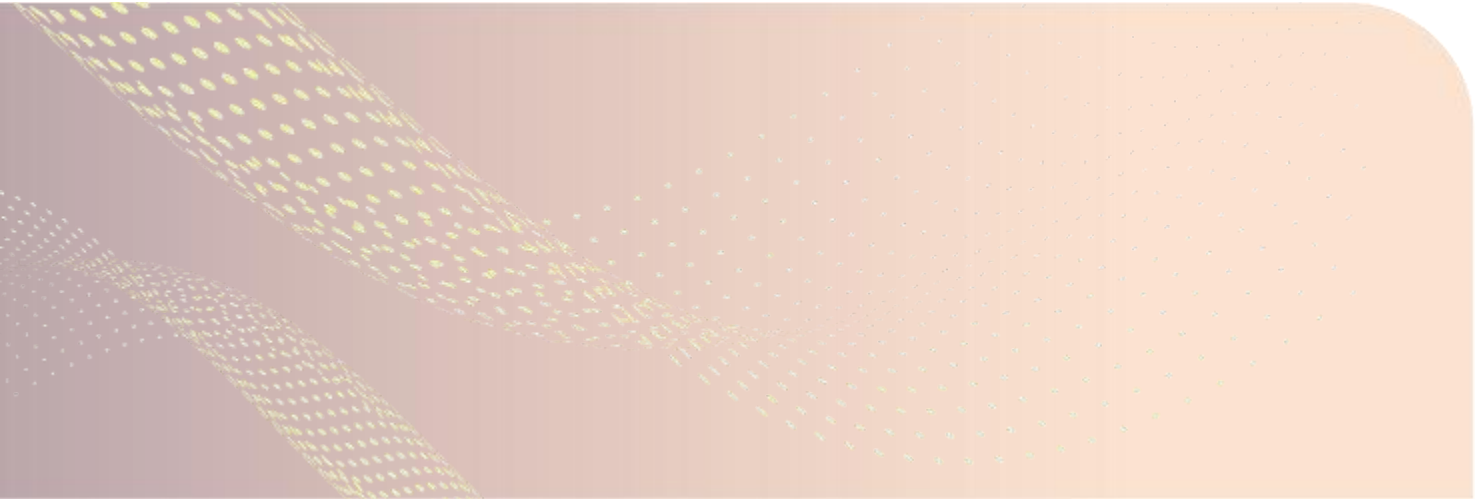
FUNCTION



SynplStation 2400+

PARAMETER

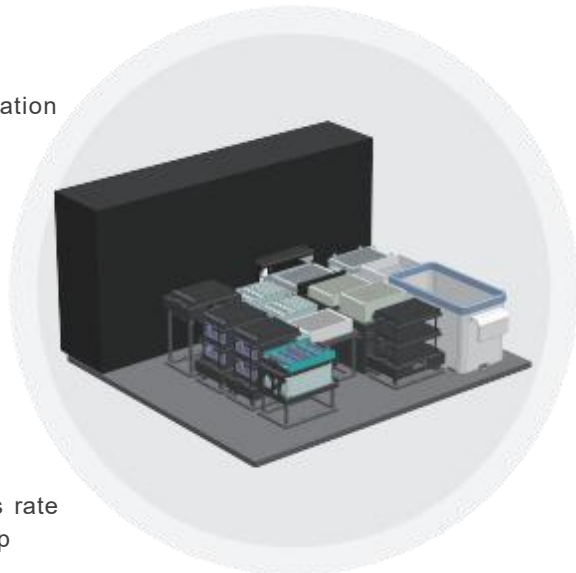
Dimension (Length×Width×Height)		800mm×808mm×826mm
Throughput		1-24 Samples
Deck Capacity		16 Standard Position
PCR Module	Type	Built-in
	Temp. Accuracy	±0.2°C
Number of Modules	Temperature Control Module	2 (4-90°C)
	Shaker	1
	Magnetic Plate	1
	Auto Magnetic Plate	1
Pipette	Type	Fixed 8 Channel
	Range	2-200µl
	CV	200µl CV<1%, 2µl CV<5%



FEATURE

Comprehensive

Built-in PCR module
Capable of library preparation and target enrichment



Customized

1-24 samples per run
User-Friendly software
Compatible with various library preparation reagents
Support customized applications

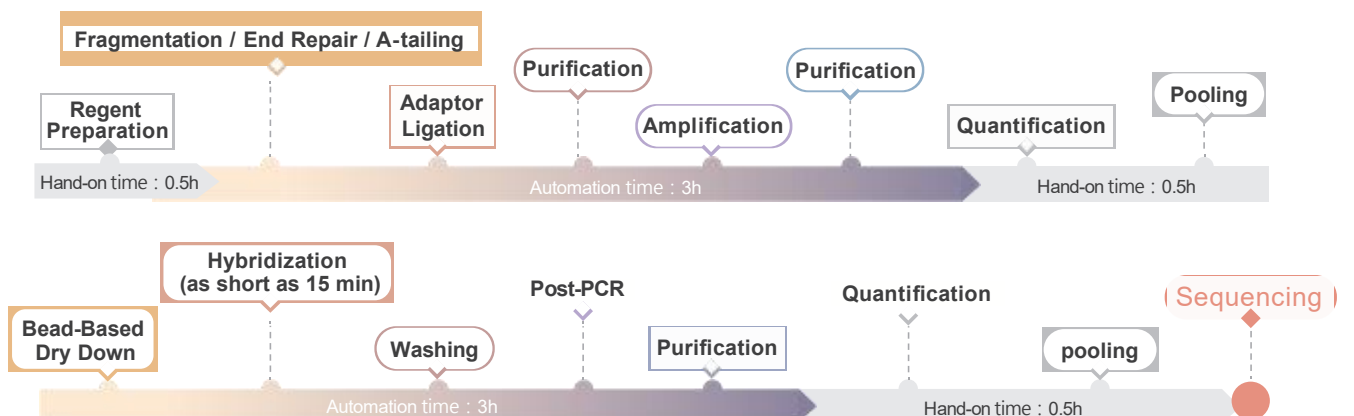
Stable

Good reproducibility
High stability and success rate
HEPA system and UV lamp

Sophisticated

Optimal deck layout design
Efficient pipetting route planning
Faster and more reliable

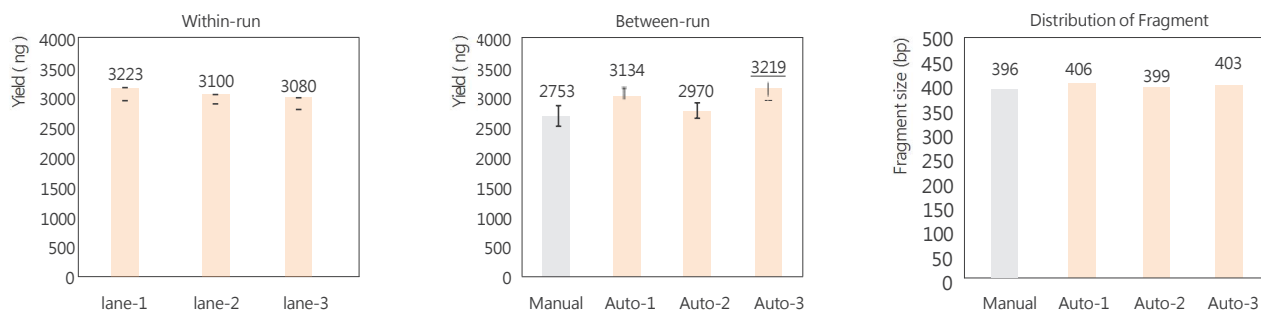
ACTUAL RUNTIME



RESULTS

Library Preparation

50ng Human genomic DNA was used for library preparation through SynplStation 2400+ and manual operation. Library preparation kit: SynplSeq DNA library prep EF kit for Illumina.



Target Enrichment

After normalization, two human genomic DNA libraries were hybridized with a custom panel(610K) for 2 hours using Fast hybridization and wash kit.

Libraries sequenced on Novaseq, with sequencing data normalized to 150× raw data for analysis.

	Sample	Q30	Pct_Selected Bases	Fold_80_Base_Penalty	Mean_Bait_Coverage	Mean_Tamrget_Coverage	Pct_Target_Bases_20X	Pct_Target_Bases_30X	AT_Dropout	GC_Dropout
Manual	Lib1	0.922	0.78	1.49	83.16	55.22	0.959	0.883	0.234	7.744
Auto-1	Lib3	0.923	0.90	1.41	84.87	61.97	0.973	0.929	0.555	4.061
	Lib4	0.918	0.88	1.44	83.51	60.38	0.969	0.920	0.538	4.068
Auto-2	Lib5	0.920	0.82	1.55	80.04	58.76	0.957	0.888	0.409	8.424
	Lib6	0.918	0.84	1.54	81.09	60.10	0.964	0.898	0.475	8.218
Auto-3	Lib7	0.923	0.87	1.39	80.35	54.24	0.972	0.915	0.875	1.949
	Lib8	0.925	0.87	1.4	80.52	54.46	0.974	0.916	0.814	2.017

ORDER INFORMATION

Cat. No.	Product	Unit
XS-S-001	SynplStation 2400	set
XS-S-002	SynplStation 2400+	set

※ SynplStation 2400 can not complete hybridization and capture steps.

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※ If you have any needs, please consult local agent for details.