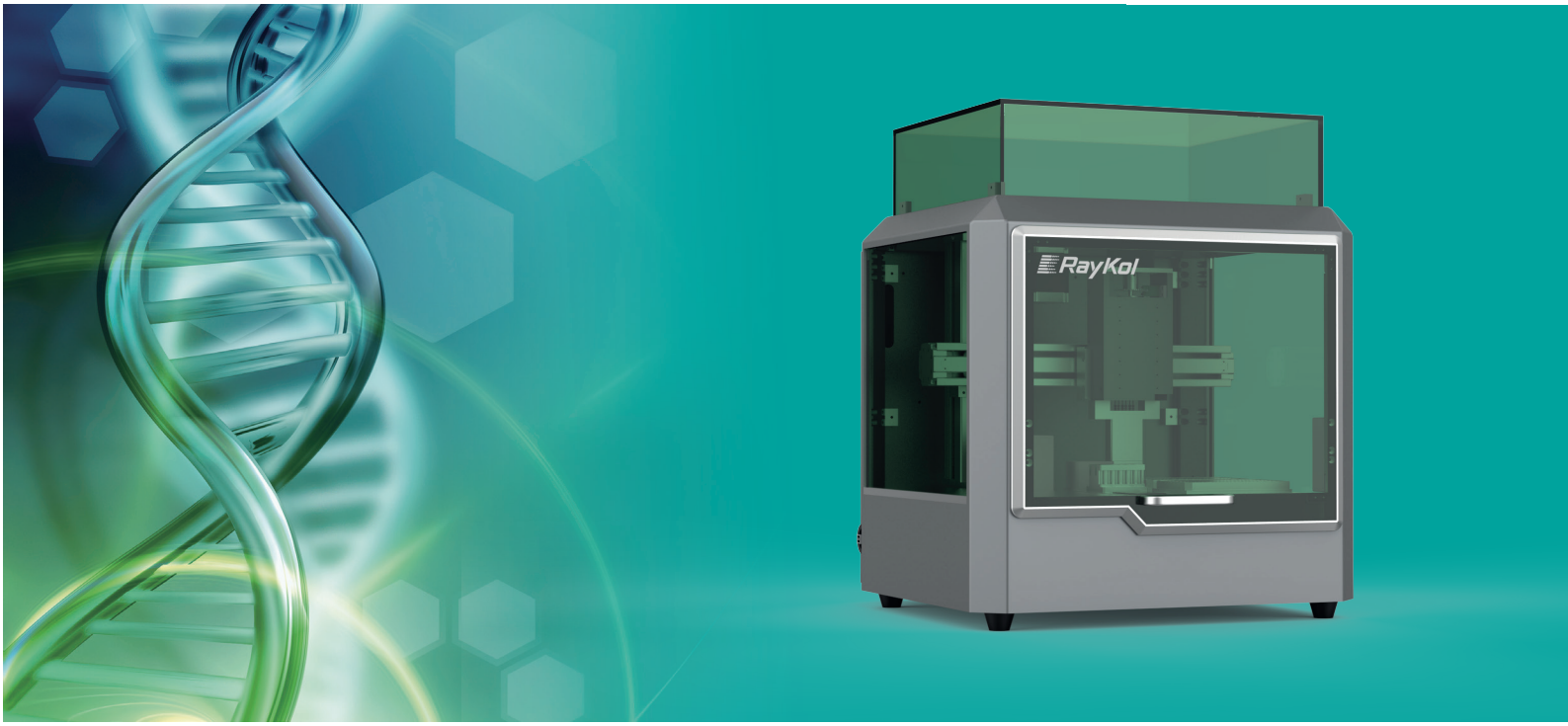
RayKol

Knowledge Optimized Laboratory



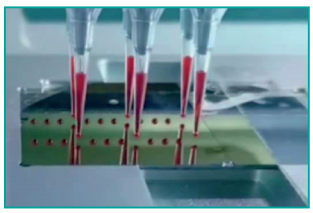
Vitae SPOTTER

Automated Biochip Dispensing System

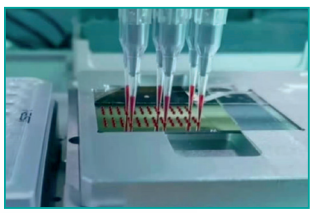
High throughput and rapid dispensing

Vitae SPOTTER Automated biochip dispensing system is a high-thoughput, highly flexible microarray dispensing system, which can quickly and accurately dispense samples as array on slides and membrane to prepare biological sample microarray chips. Microarray chips have been widely used for genomics, proteomics, drug screening, bacterial identification and early cancer screening in life science research, clinical diagnostics and food safety detection. Vitae SPOTTER provides an efficient sample preparation method for TOF-MS analysis of biological samples.





Six-channel efficient sample dispensing



Microarray can be efficiently and repeatedly built on slides, membrane and microplates

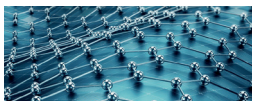
	Microlitre level	Nanoliter level
Dispensing format	Contact or non-contact	Contact or non-contact
Minimumdispensing volume	0.5μL	100nL
Diameter of pipetting pin	0.1-0.9mm	0.1mm
Dispensing accuracy	CV＜5%	CV＜5%
X/Y/Z axis stroke range	300/200/150mm	300/200/150mm
X/Y/Z axis resolution ratio	0.05mm	0.02mm
X/Y/Z axis repeated positioning precision	0.1mm	0.05mm
Equipmentdimension	520mm × 560mm × 530mm	450mm × 480mm × 530mm
Substrate(not limited to)	Slides, microplate, membrane, discs, microfluidic chips	Slides, microplate, membrane, discs, microfluidic chips

Application field

Chip production
Drug screening
Protein/antigen microarray
Establishment of enzyme and protein genome library



3D biochip production through repeated dispensing
Micro-sample dispensing
Nano material dispensing
High-density microarray



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