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SAP 20

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## Dry blood spot Punching System

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Provide accurate, safe, efficient and convenient dried-blood-spot punching

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RayKol SAP 20 is an automated dried blood spot punching system designed to meet user requirements, it provides users with accurate, safe, efficient and convenient punching operation. The instrument integrates control system and components of image acquisition,, barcode information acquisition and spot punching. Users have immediate access to clear view of punching area on control software for sample loading, greatly improves the reliability of sample punching process. Users only need to place dried blood spot cards in the corresponding punching area before operation, it reduces the errors caused by manual punching and the labor intensity of operators, to improve laboratory productivity.



Punching headt



Punching head



Punching head



Patent: ZL202130119896.6

Software copyright : 91350200MA2Y2H6M7B

## Accurate, Safe, Efficient and Convenient

### Traceability

- Complete operation records, easy to trace samples.
- Collect sample information by barcode reader or manual input.
- Results can be exported as spreadsheets, documents, pdf files or customized formats, convenient to transfer data into LIMS lab system.

### Flexibility

- Various modes to activate punching: delay punching activated by barcode (adjustable delay duration), manual activation, foot pedal activation.
- Users can select any spots to punch and load samples.

## Automatization

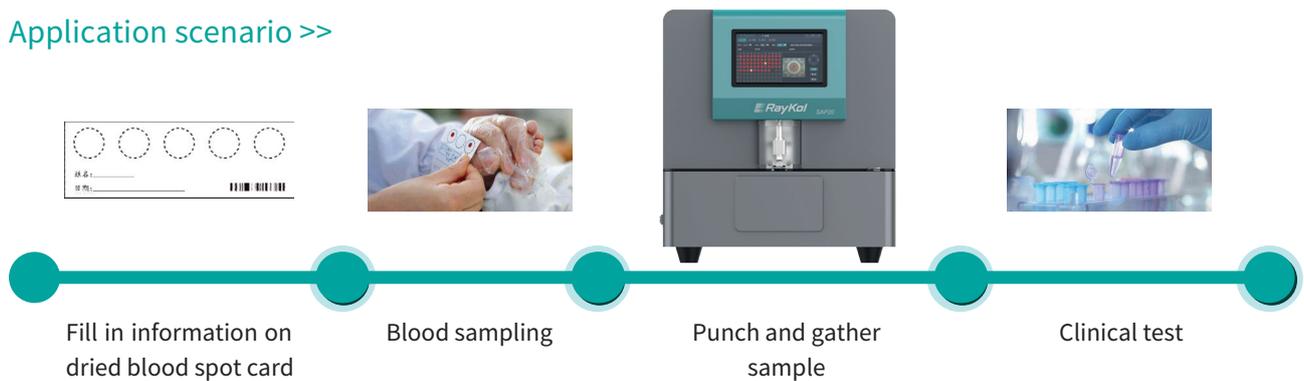
- Automatically position 96-well plate
- Laser positioning indication of dried blood spot card, clear view on punching position
- Identify sample position alignment through image acquisition component.



## Technical parameters >>

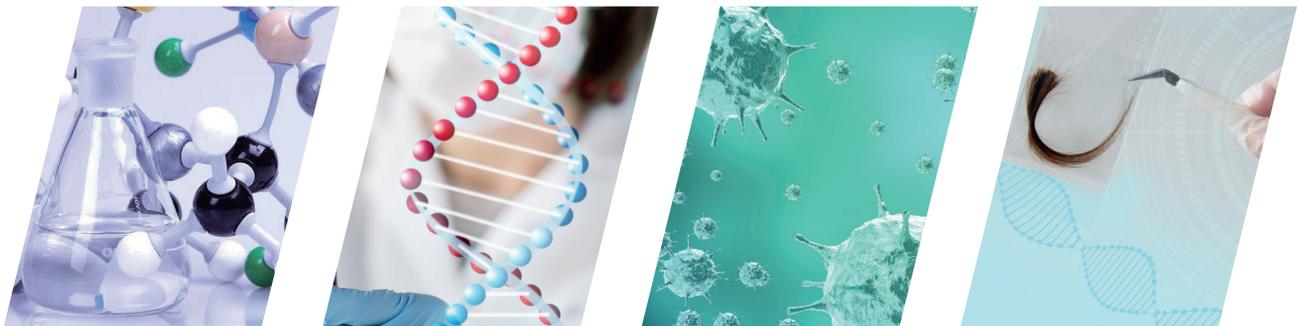
Plate capacity	1 plate, compatible with 96-well plate, PCR plate, ELISA plate and 24-position 2mL centrifuge tube rack
Punch size	1mm, 3mm and 6mm (other size can be customized)
Accuracy	±0.01mm
Qty of interfaces	3 USB ports, 7-inch touch LCD screen
Dimension	320mm x 420mm x 460mm
Endoscope camera	5 million pixels

## Application scenario >>



## Application field >>

Newborn screening, HIV/HCV screening, DNA genotyping testing, viral load testing  
 Clinical testing by LC-MS/MS, establishment of Biobank, forensic DNA identification



Knowledge Optimized Laboratory



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