CPA200™ Semi-Automated Puncher
Get superlative reliability and accuracy with the CPA200™ Punch Instrument

The Card Processing Automation 200 (CPA200™) instrument is a semi-automated puncher designed to process human blood or saliva samples collected on filter paper or cards in forensic and paternity laboratories.

The CPA200™ instrument combines ease of use with full-sample traceability and integrity to help improve downstream results in low- and medium-throughput laboratories.

The instrument offers:

- **High punching accuracy** to ensure the disk is delivered in the correct well, and to minimize cross-contamination issues
- **Flexibility** to process a variety of card shapes and dimensions
- **Traceability** of samples through barcode reading and camera control
- **Integration** into laboratory SOPs and LIMS with customizable, exportable files and reports
Punching accuracy

- Camera control of each well prior to and after punching
- Ionizer to remove static
- Vacuum system to remove debris from punching tool
- Cleaning punch functionality
- Laser targeting system to help the user select the best area for punching

![Well without disk and Well with disk]

System flexibility

- Protocol optimized for NUCLEIC-CARD™ matrices with dedicated cleaning area to improve efficiency and reduce time-to-results
- Once the area of punching is selected on the card, the CPA200™ instrument records the coordinates and performs the punching automatically

![NUCLEIC-CARD™ image]

Full traceability

- Plate and card barcode reading
- Real-time updates on plate status

![Diagram showing punch process]
## Specifications and features

**Supported card formats**

All card formats are supported.

The CPA 200™ instrument works with sample collection systems routinely used in human identification laboratories, including FTA® Cards (Whatman) and Buccal DNA Collector (Bode).

- Compatible with both indicating cards (saliva samples) and non-indicating cards (blood samples).
- Possibility to reprocess already punched cards.

**Optimized protocol**

Using framed NUCLEIC-CARD™ matrix with cleaning area:

<table>
<thead>
<tr>
<th>Format</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-spot</td>
<td>51 mm x 51 mm</td>
</tr>
<tr>
<td>2-spot</td>
<td>85 mm x 53 mm</td>
</tr>
</tbody>
</table>

The CPA200™ instrument has these standard punch configurations:

- 1.2 mm*
- 2.0 mm
- 3.0 mm
- 4.0 mm

**Available punch sizes**

**Sample punching position**

Framed cards: The user selects the punching position using the external laser pointer. The system will record the coordinates and punch automatically in the selected position.

All other cards: The user selects the punching position using the internal laser pointer aiming at the punching site.

**Cleaning procedure**

Optimized protocol using framed NUCLEIC-CARD™ matrix with cleaning area: First cleaning punch performed automatically; possibility to repeat using the same cleaning area using the external laser pointer.

All other cards: Cleaning procedure can be performed using a cleaning card or on a blank area of the processing card using either the external or internal laser pointer.

**Capacity**

2 plates (192 cards)

**Camera features and imaging**

Model: IDS Direct XS; Resolution: 2,592 (H) x 1,944 (V)

Sample presence control: Automatic comparison between the well picture before punching (well normally empty) and well picture after punching (well normally full).

Image storage: All acquired images are saved into a specific directory on the PC desktop.

**Physical dimensions**

610 mm (L) x 545 mm (W) x 675 mm (H); weight: 72 kg

**Hardware and software**

Model ASEM HT2000-TF/S1: LCD TFT 10.4" 4:3, touch screen 10.4", Intel Atom™ dual core D2550 1.86 GHz, 1 GB RAM.

Operating system: Linux Ubuntu.

Peripherals: 10.4" touch screen, keyboard, mouse, USB (2). Communication: USB, Network: 2 x Ethernet (1 Gbit/s)

**Exportable files**

The instrument can export files in .csv or .txt formats suitable for import into the 3130 and 3500 sequencers, and can export reports as PDF files.

**Main power requirements**

400 W (peak) electrical power; 208–240 VAC main supply voltage; 50/60 Hz

**Overvoltage category**

2

**Pollution degree**

2

*All CPA200™ instruments come with 1.2 mm punch sizes by default*

### Ordering information

<table>
<thead>
<tr>
<th>Product</th>
<th>Cat. No.</th>
</tr>
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<tbody>
<tr>
<td>CPA200™ Instrument</td>
<td>A26041</td>
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</table>

Find out more at lifetechnologies.com/samplepuncher