The NINcha series is a family of forensic climate chambers, focusing particularly on the development of fingerprints on porous surfaces after treatment with Ninhydrin, DFO or Indandione.

Evidence like this is usually treated with Ninhydrin, DFO or Indandione by bathing or spraying. Following this chemical treatment process, the samples need to be developed under highly specific temperature and humidity conditions for a set period of time for optimal fingerprint development results.

NINcha makes all of this possible, with a user-friendly climate chamber system, complete with a multilingual touch screen control panel, a USB data logger for quick recording and monitoring of processes, and a novel innovative air stream concept that circulates chemical developer evenly throughout the chamber while avoiding any evidence displacement. Additional features allow users to customize filter settings or use external ventilation systems, customize process settings, and minimize potential damage to evidence. These features both increase user safety and help preserve evidence and prevent evidence contamination.

Other climate chambers on the market operate in a similar fashion to NINcha, but unfortunately often neglect safety aspects and the ability to continuously monitor samples, both of which are extremely important for forensic equipment. NINcha is specially designed for forensic use, and built to meet the rigorous requirements of standardized forensic laboratories.

**Technical Data**

<table>
<thead>
<tr>
<th>Model</th>
<th>NINcha S31</th>
<th>NINcha M31</th>
<th>NINcha L31</th>
</tr>
</thead>
<tbody>
<tr>
<td>External Dimensions (mm)</td>
<td>165 x 70 x 40 cm</td>
<td>165 x 70 x 60 cm</td>
<td>255 x 70 x 60 cm</td>
</tr>
<tr>
<td>Internal Dimensions (mm)</td>
<td>30 x 48 x 98 cm</td>
<td>50 x 48 x 98 cm</td>
<td>150 x 48 x 98 cm</td>
</tr>
<tr>
<td>Levels</td>
<td>2</td>
<td>4</td>
<td>6</td>
</tr>
<tr>
<td>Temperature Range</td>
<td>20°C - 40°C</td>
<td>20°C - 40°C</td>
<td>20°C - 40°C</td>
</tr>
<tr>
<td>Humidity Range</td>
<td>40 - 50% (with humidifier OFF)</td>
<td>40 - 50% (with humidifier OFF)</td>
<td>40 - 50% (with humidifier OFF)</td>
</tr>
<tr>
<td>Basic Configuration</td>
<td>Fingerprint</td>
<td>Fingerprint</td>
<td>Fingerprint</td>
</tr>
<tr>
<td>Options Available</td>
<td>Yes/No</td>
<td>Yes/No</td>
<td>Yes/No</td>
</tr>
<tr>
<td>USB Data Logger</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>UV Decontamination</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>External Ventilation</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Electrical Data</td>
<td>230V AC/50Hz</td>
<td>110-200V AC/60Hz</td>
<td>110-200V AC/60Hz</td>
</tr>
</tbody>
</table>

This is a product info brochure. Images might not be true to scale. Please consult the separately available brochure for the separate models. This brochure also gives product weights. For each model, we offer a UV decontamination unit adapted for the design or specification with an UV output.

**Forensic Fingerprint**

**Climate Chamber**

for the development of fingerprints on porous surfaces, using Ninhydrin, DFO and Indandione.
Air Filter and External Ventilation
In order to reduce the risk of a contamination of evidence with particulates like dust loaded with chemicals from former treatment cycles, Nincha features a special air filter system. The chamber can also be fitted with process controlled flaps for inflow and exhaust that make it compatible with external ventilation systems.

Advantages at a glance

- Pre-Programmed Treatment Cycles
  Ready-to-run cycles for Ninhydrin, DFO and Indandione ensure simple operation and consistently high quality evidence development. Parameters and timers can also be adjusted by a user to suit their needs, or cycles can be controlled entirely manually if desired.

- Modular Shelving Concept
  The carriers on the inner walls of the chamber are designed for the use with both the easy-clean stainless steel metal grills and the hanging rods.

- Air Filter and External Ventilation
  In order to limit cross-contamination and simplify cleaning, a special air filter system has been integrated into the cabinet to filter out residual chemical developer materials or small evidence particulates that may remain in the chamber after use. The cabinet can also be upgraded to connect to an external ventilation system with process-controlled air inflow and exhaust valves.

- UV-Decontamination Unit
  For easy elimination of DNA inside the cabinet, a short wave UV illumination unit can be installed in the chamber.

- Water Supply and Drainage
  The chamber has an integrated reservoir for distilled water, as well as an automated condensation control system to remove excess moisture from the chamber. The condensed water tank and the reservoir are both monitored by the system and the touch screen display panel informs the users when the tanks need attention for drainage or refilling.

- Deflagration Protection
  A novel locking mechanism for the door prevents excessive pressure buildup inside the cabinet and allows built up pressure to safely escape the cabinet, decreasing the chance of deflagration from improper use.

Airflow and Anti-Condensation Screen
Heated air is guided via an interior glass screen on the door of the Nincha. This eliminates any condensation and ensures the user has a clear view into the cabinet at all times.

Unlike many industrial climate chambers, the chamber does not use air outlets on the interior walls, and instead creates a homogenous gentle airstream throughout the entire chamber.

Integrated Illumination
The development process must be easily observable with a forensic climate chamber. Nincha features both an innovative condensation screen and a large viewing panel in the door. In addition, the chamber has interior illumination on each shelving level that can be turned on as needed.

Touch Panel Display and Process Data Logger
Nincha is microprocessor-controlled by the user via the integrated touch screen display. For ease of use, pre-programmed development cycles for Indandione, Ninhydrin, and DFO can be selected. If required, users can also easily alter the parameters and timer settings via a manual mode for customized cycle options.

An optional USB data logger records all relevant process data onto a USB pen drive for improved quality control, documentation, and analysis with our included Excel-compatible data analysis software.

Variable Shelving Concept
The carriers on the inner chamber sides of Nincha are built to support both the stainless steel metal grills and hanging rods for evidence. The grills are made with only two rungs, in order to keep cleaning simple. To support heavier evidence, hanging rods can be used in combination with the grills. An additional carrier at the top of the cabinet allows access to the cabinet’s full height.

Water Supply
Nincha features an internal tank for the distilled water required for the humidification process. Condensed water produced by the process is collected in a removable container at the bottom of the cabinet.