

# RapidHIT™ The world's first, fully automated rapid DNA sample-to-profile system.

## Features

- **Sample processing in less than 90 minutes**, outside of the standard laboratory environment
- Disposable cartridges contain all reagents and waste
- Profile formats compatible with most international DNA databases including UK National DNA Database®
- Straightforward, easy, unattended operation by non-scientists
- No separate laptop-all required software and hardware in one instrument
- High quality results ready for loading to or searching against a database.

## Specifications

- Sample Input: buccal swabs and forensic samples
- Sample Capacity: Up to 8 swabs
- Runtime: <90 minutes
- Dimensions: 28" W x 18" H x 27" D (71cm x 46cm x 69cm)
- Weight: 180 lbs (82kg).



## Applications

### Custody Suites

Release of suspects from custody prior to obtaining DNA matches against high-profile crimes is known to lead to absconding and reoffending, both with very serious consequences for victims of these crimes. Matching suspects with crimes before they are released from custody will prevent this happening, saving the police time and money and reducing crime.

### Crime Scenes

In the UK over half of crime stains loaded to the database match against individuals already known to the police. Processing of crime stain samples in under 90 minutes, at the crime scene or in police scientific support units will allow police to obtain the name and address of the suspect within hours of these crimes being committed, enabling them to arrest individuals before vital evidence has been lost, or stolen goods disposed of.

### Border Control/Homeland Security

Rapid identification of terror suspects at international borders is of vital importance to the protection of the UK from terrorist attack. The RapidHIT can match DNA profiles generated from unknowns presenting at border control against databases of known terror suspects, all in less than 90 minutes.

### Disaster Victim Identification

Natural and terrorist-instigated disasters frequently result in huge loss of life. The forensic response to this, whereby victims need to be identified rapidly to inform their families, is currently hugely laborious, expensive and logistically difficult to implement. The RapidHIT is designed to be deployed rapidly and easily at the scene of a disaster, enabling victims to be identified very quickly.