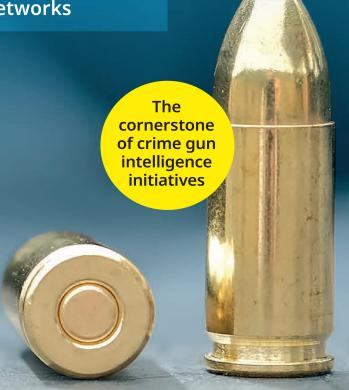


# See More. Link More. **Solve More.**

> The technology behind the world's most effective ballistic identification networks



# The IBIS® Solution

> Integrated Ballistic Identification System

IBIS is a technological weapon in the fight against gun violence. The IBIS search engine extends the capabilities of law enforcement agencies to quickly find links between firearm-related crimes.



IBIS uses specialized 3D microscopy to capture the unique marks left by firearms on fired bullets and cartridge cases.



An IBIS solution can start with one location and can extend to multiple sites, all contributing seamlessly within an integrated network.



IBIS makes it possible for agencies to collaborate across jurisdictions, both within a national program and internationally.



IBIS uses powerful algorithms to reveal the most likely matches within IBIS networks representing millions of bullets and cartridge cases.



High-definition 3D viewing makes it easy to review the top search results, ranked by similarity, by using virtual microscopy to visually compare surface details.



A match found in IBIS is often sufficiently apparent to provide an investigative lead, without having access to the physical evidence.



If required for court testimony, an IBIS match can be formally confirmed by a firearm examiner.

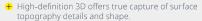




Evidence from seemingly insignificant firearm-related incidents can provide the missing link to solving more serious crimes. IBIS solutions generate investigative leads by linking crimes that may otherwise go unconnected. They provide timely, actionable intelligence for the investigation of firearm-related crimes. IBIS programs worldwide have contributed to the arrest of thousands of criminals.

## Cutting-Edge Technology







- Automated acquisition produces consistent image quality and uniformity for optimal comparison performance.
- Easy to operate workstations require minimal training.
- + Reliable and secure data management infrastructure.
- + Comparison algorithms specialized for large quantities of challenging firearm evidence.
- + 3D comparison viewers with capabilities beyond conventional optical comparison microscopy.



### Keys to Success

- Comprehensive collection of fired cartridge cases and bullets from all firearm-related incidents and recovered firearms.
- Timely processing of crime gun test fires and evidence from all jurisdictions (regional approach).
- Timely communication of investigative leads linking firearm-related events (rapid turnaround).
- Integration of multiple forensic and investigation systems for effective crime gun intelligence programs.



# IBIS Around the World

- · Used in over 80 countries
- · Over 1,500 IBIS stations in operation
- Millions of acquired bullets and cartridge cases from crime scenes and test fires from recovered firearms
- Backbone of the largest national ballistic identification networks
- INTERPOL's choice to interconnect member countries



# Research and Innovation

IBIS technology is the most advanced of its kind. After decades, it continues to evolve with custom-built technology and scientific expertise.

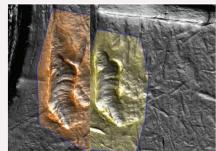
- Ultra Forensic Technology's research team is the leader in the field of automated ballistic identification.
- Ultra Forensic Technology scientists and engineers work in partnership with firearm examinersto evolve IBIS.
- From acquisition quality to correlation performance, IBIS consistently delivers excellence.

 Ultra Forensic Technology benefits from worldwide IBIS user expertise, which directly contributes to continued research and development of IBIS solutions.

# Cartridge Cases



3D Primer Comparison



3D Ejector Mark Comparison



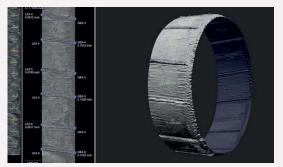
- + 12 Image Types
- + 4 Regions of Interest
- Breech Marks Firing
   Pin Impressions
   Ejector Marks
   Headstamp



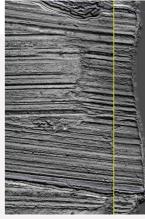




# Bullets



Wraparound Bullet Acquisition



Side-by-Side Comparison



# IBIS Components

### Capture

- High-Definition3D Topography
- Easy-to-Operate, Automated System
- + All Calibers
  All Firearm Types



Millions of bullets and cartridge cases have been captured into IBIS networks.



#### BRASSTRAX™

Digitally captures the regions of interest on a cartridge case in 2D and 3D, revealing considerable impression detail and multiple viewing perspectives.



### **BULLETTRAX®**

Digitally captures the surface of a bullet in 2D and 3D, providing a topographic model of the marks around its circumference.

Intelligent surface-tracking technology automatically adapts to the deformations of damaged and fragmented bullets.

### **Review Results**

### **Identify Matches**

#### MATCHPOINT™

Provides extensive 3D viewing tools to review the correlation results, significantly increasing identification success rates.

High-confidence matches can be quickly communicated as leads to investigators.





# Communicate

#### Intelligence

Combine exported IBIS information with other systems by overlaying technologies.

# Manage Data

#### Data Concentrator

Preserves and protects the captured data and coordinates automated data sharing. Serves as an IBIS network's focal point for data access and management.



### Compare

### Correlation Engine

Finds evidence matches with the highest similarity in the top search results. Maintains strong performance even when searching large databases.

IBIS correlation algorithms are tailored to the complexities of firearm forensics.

# Collaborate



International

Worldwide data standards

National

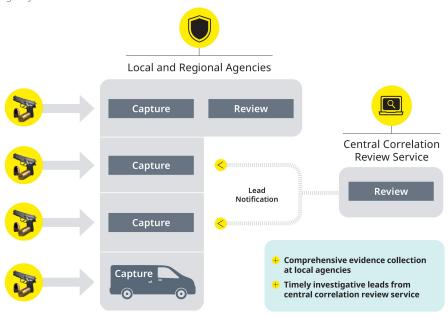
Regional

Local

Interconnect IBIS networks at all levels for optimal collaboration in finding linked crimes.

# Flexibility

Modular IBIS components offer flexible deployment options and scalability to adapt to each agency's needs.





# Options

## Integration with Other Systems

Integrating IBIS with other systems allows agencies to streamline the information flow and enhance crime gun intelligence initiatives. The crime gun information gathered by an IBIS network can be extracted and combined with information from other sources to support criminal investigations, analyze trends over time, produce reports, and evaluate operational performance.







# Turnkey Solutions

Ultra Forensic Technology manages deployment and maintenance so that agencies can focus fully on crime gun intelligence initiatives. IBIS is a complete solution with the infrastructure to support all its system components.

Beyond the installation of the equipment, Ultra Forensic Technology provides:

- · Accessories and peripherals
- · User training
- Professional services
- · Support and maintenance



# About Ultra Forensic Technology

Ultra Forensic Technology pioneered automated ballistic identification over 30 years ago and continues to be a global leader in forensic solutions that promote a safer society.

Ultra Forensic Technology partners with hundreds of public safety agencies in over 80 countries to provide cost-effective and sustainable solutions. With vast experience in creating industry-leading technology, we employ dedicated teams of engineers, scientists, and law enforcement professionals around the world.

# **Building Global Partnerships**

Every IBIS investment represents a growing partnership. Modern crime-fighting technology requires innovation, development, and expertise. We help our customers establish successful programs that make the best use of IBIS technology. We offer a range of services, including keeping IBIS equipment updated with the latest advancements, and providing users with ongoing training.



#### **Global Customer Services**

Our worldwide support network offers 24/7 services from five offices on four continents in multiple languages. We have achieved ISO 9001 certification for our facilities and ITIL certification for our support staff, where applicable, in order to satisfy the most stringent quality standards.



#### Training

Our highly experienced trainers work closely with our product development experts to deliver the most relevant and up-to-date training. Depending on the specific needs of customers, trainers can conduct one-on-one sessions, consult with small groups, or combine a mix of both—all in the convenience of customer facilities, anywhere in the world.



#### E-Learning

All IBIS users have access to the Ultra Forensic Technology E-learning service designed to support and deepen their knowledge of IBIS solutions. Our growing resource library is available through a secure web portal which provides exclusive access to basic training courses, user guides, and other helpful information including webinars and how-to videos to help maximize the effectiveness of IBIS solutions.





Innovating today for a safer tomorrow



ULTRA. | Forensic Technology

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