



**THE SIMPLE WAY
TO GET YOUR BALLISTIC
MATERIAL ONTO IBIS**

Arquebus - Ballistics Managed Services

In supporting the global efforts of law enforcement organisations to fight the criminal use of firearms Arquebus recognises the potential investigative opportunities that lie in lost intelligence and unprocessed ballistic material. At Arquebus we have developed a flexible Managed Service solution which enables the processing of bullet and cartridge case based material using the state of the art Integrated Ballistics Identification System (IBIS) produced by Ultra Electronics Forensic Technology Incorporated.

This unique service caters for many of the eventualities and challenges faced in the processing of ballistic material such as: -

- Under Capacity
- Legal Test Fire Processing
- Outsourcing
- Seasonal Variation
- Open Case File (OCF) acquisition
- Disaster Recovery
- Backlogged Material
- Ballistic comparison technology update

Using fully trained IBIS technicians certified by Ultra Electronics Forensic Technology, in conjunction with independent expert forensic support and assessment provided by Forensic Firearms Consultancy (FFC) Limited, Arquebus guarantees that its services and processes are of a world class standard. In doing so Arquebus provides value for money and flexibility whilst ensuring that the highest levels of forensic standards and processes are maintained.

In order to support this cutting edge service Arquebus has created a world class IBIS based ballistics laboratory to meet the needs of its current and future clients. Built using the expertise drawn from becoming the worlds most experienced user of IBIS 3DHD, the laboratory uses cutting edge IBIS equipment in combination with well-rehearsed and independently evaluated process. In addition the laboratory benefits from 24-hour security and strong access controls.

Arquebus is also able to offer in country support to cover shortfalls in laboratory capability, such as dealing with backlogged material, under capacity, seasonal variation or technology transition.

Whether you are new to IBIS or an existing user we would be delighted to talk to you about your requirements so please do not hesitate to get in touch.

Integrated Ballistics Identification System (IBIS)

IBIS@TRAX-HD3D™ is the latest generation of IBIS technology and includes exceptional 3D imaging, advanced comparison algorithms, and a robust infrastructure. It has been designed to meet the needs of police and military organisations that gain actionable information from firearms and their fired ammunition components. This technology contributes to the investigation process by helping experts to see more, link more, and solve more firearm-related crimes.

IBIS technology enables the sharing and comparison of significant quantities of exhibit information and images across a network of imaging sites, as well as the automated identification of likely matching Bullets or Cartridge Cases. Following the process of acquiring the ballistic material, technicians and scientist's are able to conduct the process of matching this material with other pieces of material either within the host organisation or with other international law enforcement organisations. This process begins with the automated ranking of potential matching material according to similarity. This ranking capability allows operators to rapidly search through hundreds of thousands of exhibits, and to focus only on the candidates with the highest probability of a match.

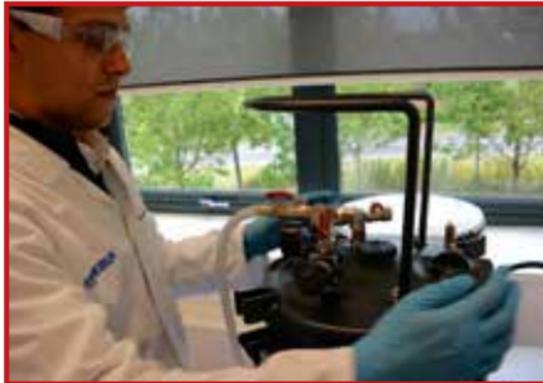
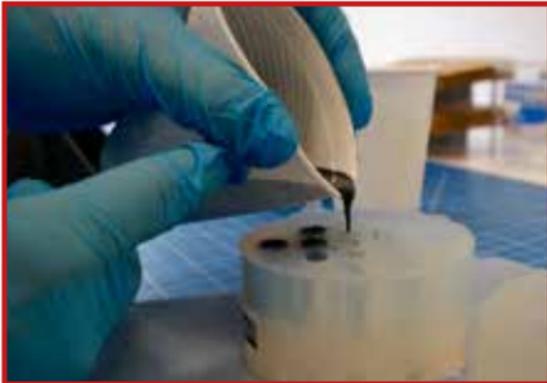


Double Cast material delivery

In understanding the difficulties of moving ballistic material across international borders Arquebus has integrated the use of Double Casting within its processes. Using this Interpol approved process, clients are able to send material across international borders in quick time without the need to seek judicial approval, thus providing fast time access to IBIS based services.

Arquebus is also able to Double Cast material on behalf of clients in order to deliver a complete 'turnkey' solution from Double Casting through to Acquisition and Correlation. In addition Arquebus can train its clients in Double Casting to allow the casting of individual items for onward submission to Arquebus.

In creating these services Arquebus has worked with Ultra Electronics Forensic Technology to ensure that ballistic information can be transferred directly to your IBIS Data Concentrator and Correlation Server. For clients without an IBIS Data Concentrator or Correlation Server Arquebus is able to facilitate a solution to meet the needs of the client whilst ensuring the highest levels of security and integrity.

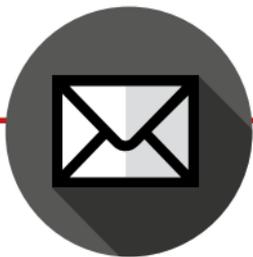




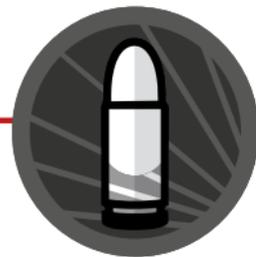
**Summary
Case
Information**



**Test Fire or
Double Cast**



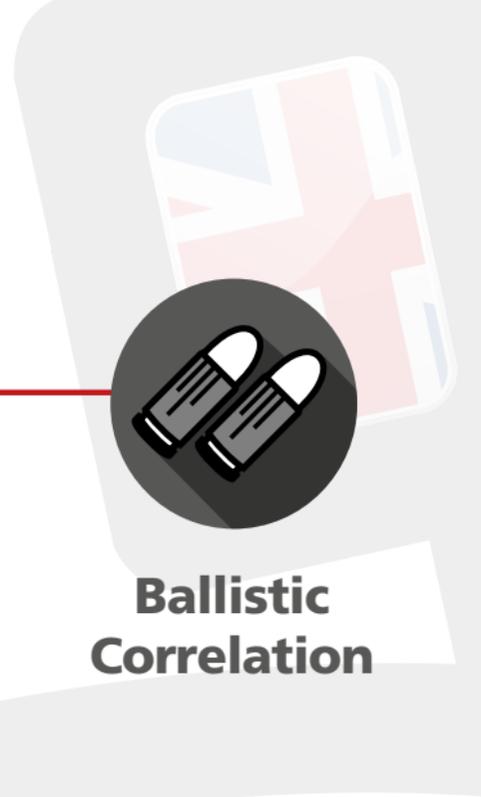
**DHL
Envelope**



**IBIS
Acquisition**



**Ballistic
Correlation**



About Arquebus

The Arquebus is a shoulder-fired firearm that was developed in the 1400's and is the forerunner of the modern rifle. It completely revolutionised warfare as it made its counterpart the crossbow obsolete. Compared to archery where it took many years of training to produce an effective archer, the Arquebus could be used after minimal training, which meant that many soldiers could be trained to use the Arquebus in the same time that it took to train a single skilled archer.

The Arquebus was a revolutionary weapon which combined with innovative tactics and technical superiority allowed the Spanish to destroy the once great Aztec empire in Colonial Latin America, making all other weapons obsolete and becoming the weapon of choice for 150 years.

In summary the development of the Arquebus saw:-

- The deployment of the latest technology in a manner that maximised efficiency
- The development of effective training methods allowing subsequent wider use of the new equipment
- A change in working practice to use the new technology to maximum effect in a manner that had never been seen before
- The delivery of sustainable and long-term change in a manner that allowed users of the technology to become independently strong

Arquebus is a UK based Company delivering specialist capabilities in the fields of consultancy, software development and managed forensic services relating to the criminal and legal use of firearms, and associated ballistic material. Founded by previous senior members of the United Kingdom National Ballistics Intelligence Service (NABIS) the Arquebus team are highly experienced in dealing with the processing of ballistic material on a large scale. The entire philosophy upon which Arquebus is founded is our commitment to deliver significant and long lasting benefits to our clients through future technology, people and systems in a way that is guaranteed to last the test of time.

In the same way that the Arquebus inspired change in the way that warfare was conducted some 600 years ago, Arquebus can transform the way in which you focus your ballistics intelligence and business processes to maximum effect.