

RESOLUTION NO. _____

A RESOLUTION AUTHORIZING THE CHIEF OF POLICE AS PART OF THE NATIONAL INTEGRATED BALLISTIC INFORMATION NETWORK/INTEGRATED BALLISTIC INFORMATION SYSTEM (NIBIN/IBIS) TO PURCHASE FROM ULTRA ELECTRONICS A BRASSTRAX ACQUISITION STATION IN THE AMOUNT OF ONE HUNDRED THIRTY-SEVEN THOUSAND EIGHT HUNDRED FIVE DOLLARS (\$137,805.00); A SAFEGUARD EXTENDED WARRANTY AND PROTECTION PLAN IN THE AMOUNT OF SIXTEEN THOUSAND TWO HUNDRED FIFTY DOLLARS (\$16,250.00); A LEICA COMPARISON MACROSCOPE IN THE AMOUNT OF SEVENTY THOUSAND DOLLARS (\$70,000.00); AND A SNAIL BULLET TRAP IN THE AMOUNT OF FOUR THOUSAND DOLLARS (\$4,000.00), FOR THE TOTAL AMOUNT OF TWO HUNDRED TWENTY-EIGHT THOUSAND FIFTY-FIVE DOLLARS (\$228,055.00).

BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF CHATTANOOGA, TENNESSEE, That it is hereby authorizing the Chief of Police as part of the National Integrated Ballistic Information Network/Integrated Ballistic Information System (NIBIN/IBIS) to purchase from Ultra Electronics a Brasstrax Acquisition Station in the amount of \$137,805.00; a Safeguard Extended Warranty and Protection Plan in the amount of \$16,250.00; a LEICA Comparison Macroscopic in the amount of \$70,000.00; and a Snail Bullet Trap in the amount of \$4,000.00, for the total amount of \$228,055.00.

ADOPTED: _____, 2016

/mem

City of Chattanooga



Resolution/Ordinance Request Form

Date Prepared: 04/26/2016

Preparer: Ulystean Oates

Department: Police

Brief Description of Purpose for Resolution/Ordinance: Res./Ord. # _____ Council District # _____

A RESOLUTION AUTHORIZING THE CHIEF OF THE CHATTANOOGA POLICE DEPARTMENT (CPD) AS PART OF NIBIN/IBIS – National Integrated Ballistic Information Network/Integrated Ballistic Information System TO PURCHASE FROM ULTRA ELECTRONICS A BRASSTRAX ACQUISITION STATION IN THE AMOUNT OF ONE HUNDRED THIRTY SEVEN THOUSAND EIGHT HUNDRED FIVE DOLLARS (\$137,805); SAFEGUARD EXTENDED WARRANTY & PROTECTION PLAN SIXTEEN THOUSAND TWO HUNDRED FIFTY DOLLARS (\$16,250); LEICA COMPARISON MACROSCOPE IN THE AMOUNT OF SEVENTY THOUSAND DOLLARS (\$70,000); SNAIL BULLET TRAP IN THE AMOUNT OF FOUR THOUSAND DOLLARS (\$4,000)

Name of Vendor/Contractor/Grant, etc. VARIOUS
Total project cost \$ 228,055
Total City of Chattanooga Portion \$ _____
City Amount Funded \$ _____
New City Funding Required \$ _____
City's Match Percentage % _____

New Contract/Project? (Yes or No) Yes
Funds Budgeted? (YES or NO) NO
Provide Fund _____
Provide Cost Center _____
Proposed Funding Source if not budgeted _____
Grant Period (if applicable) _____

List all other funding sources and amount for each contributor.

Amount(s)	Grantor(s)
\$ _____	_____
\$ _____	_____
\$ _____	_____

Agency Grant Number _____

CFDA Number if known _____

Other comments: (Include contingency amount, contractor, and other information useful in preparing resolution)

Approved by: _____

Reviewed by: FINANCE OFFICE

DESIGNATED OFFICIAL/ADMINISTRATOR

Please submit completed form to @budget, City Attorney and City Finance Officer

Revised: October, 2011



**FORENSIC
TECHNOLOGY**

BUDGETARY PROPOSAL

For an

IBIS® TRAX-HD3D™ SOLUTION

Submitted to the:

**Chattanooga Police Department
3410 Amnicola Highway
Chattanooga, TN 37406**

**Attention: Mr. Ulystean Oates
Manager, Budget & Finance**

By:

**Ultra Electronics Forensic Technology Inc.
5757 Cavendish Blvd, Suite 200
Montreal, Quebec
Canada H4W 2W8**

Date: **April 26, 2016**

Our Reference No.: **S-05238, Rev. 01**

The technical data, design, concepts, and other information disclosed herein in this proposal are the exclusive property of Ultra Electronics Forensic Technology Inc., contain trade secret and confidential business or financial information that are exempt from disclosure under the Freedom of Information Act and are not to be disclosed or copied to any other party without the advanced written consent of Ultra Electronics Forensic Technology Inc.

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1 Executive Summary

Ultra Electronics Forensic Technology Inc. (hereinafter referred to as **Forensic Technology**) is pleased to provide the **Chattanooga Police Department**(hereinafter referred to as the **Customer**) with this budgetary price quote for our latest generation of Integrated Ballistics Identification System (**IBIS®**).

Option	Description	Total Price (USD)
1	- One (1) BRASSTRAX™ Acquisition Station - One (1) MATCHPOINT™ Analysis Station for Cartridge Cases	\$201,806
2	- One (1) BRASSTRAX™ Acquisition Station	\$137,805

As such, this proposal assumes that ATF will grant the Customer access to NIBIN, a NIBIN-IBIS Data Concentrator and a NIBIN-IBIS Correlation Server. A Memorandum of Agreement (MOA) between the two agencies must be in place.

The total prices also include the following services:

- On-site survey to ensure the installation site meets space, electrical, environmental and other important requirements
- On-site installation and start-up by our certified technicians
- On-site training of system users
- One-year warranty covering parts, labor and software upgrades
- Technical hotline, 24 hours a day, 7 days a week
- Travel and living expenses for our installer and instructor
- Shipping charges DDP Customer Premises (Incoterms 2010)

The following sections provide additional details on this budgetary proposal, including system overview, conditions of sale, and warranty.

Your Contact at Forensic Technology

Should you have any questions about this proposal, please do not hesitate to contact **Mr. Brandon Huntley** in Phoenix, Arizona at telephone number +1 602 826 8802 or via e-mail at brandon.huntley@ultra-ft.com.

2 About Forensic Technology

Forensic Technology started its operations in January 1991, when Walsh Automation Inc. formed a division dedicated to increasing the effectiveness of forensic science through the application of automation technology. Today, Forensic Technology employs approximately 200 people worldwide from a variety of disciplines, including engineering, forensic science, information technology, law enforcement and security – all engaged in providing ballistic identification and analysis solutions with **IBIS®** (Integrated Ballistics Identification System).

Our company has over 20 years of experience in providing effective solutions, with a highly qualified team of scientists, widely recognized for their depth of knowledge in the field of forensic ballistics, as well as technical expertise in the implementation of extensive national and international information-sharing networks.

In ballistics, Forensic Technology has gained a vast experience in understanding the unique markings left on spent bullets and cartridge cases from thousands of different firearms and ammunition types. We have built a series of robust correlation algorithms capable of sifting through thousands of exhibits to provide prospective matches to firearms examiners. Forensic Technology has also invested heavily in developing automated acquisition techniques and analysis tools that ensure firearm examiners spend their precious time solving crime.

In 2011, Forensic Technology acquired **Projectina AG**, a world leader in the development and manufacture of forensic science products and high-end optical components for over 60 years. Projectina's offerings cover three broad product categories to complement Forensic Technology's core competencies: microscopes, document examination and forensic crime scene products. Projectina AG is a wholly-owned subsidiary of Forensic Technology.

In 2014, Forensic Technology and its subsidiaries were acquired by Ultra Electronics Holdings plc (<http://www.ultra-electronics.com>). Ultra Electronics is an internationally successful defense, security, transport and energy company with a long, consistent track record of development and growth. Ultra businesses constantly innovate to create solutions to customer requirements that are different from and better than those of the Group's competitors. The Group has a broad range of distinct market or technology niches within its many businesses. The diversity of niches enables Ultra to contribute to a large number of platforms and programs and provides resilience to the Group's financial performance.

Forensic Technology has offices in strategic locations around the world to better serve all of our customers. Our offices are located in the following cities:

- **Montreal, Quebec, Canada** (head office and training center)
- **Largo, Florida, USA** (customer support and training center)
- **Dublin, Ireland** (customer support)
- **Pretoria, South Africa** (customer support)
- **Bangkok, Thailand** (customer support)
- **Heerbrugg, Switzerland** (Projectina head office and training center)

Governments around the world depend on Forensic Technology for reliable solutions that assist their public safety agencies solve firearm-related crime and promote a safer society. We

collaborate with hundreds of public safety agencies in nearly 70 countries and territories to provide cost-effective and sustainable solutions.

Forensic Technology has deployed 598 systems at 365 customer sites worldwide including the Royal Canadian Mounted Police (RCMP); the Bureau of Alcohol, Tobacco, Firearms and Explosives (ATF); the South African Police Service (SAPS); the Australian Federal Police (AFP); the London Metropolitan Police; and the Netherlands Forensic Institute (NFI). A complete listing of our customers by country and by agency is available below.

County	Agency	Customer since	Number of Sites
Afghanistan	Afghan Criminal Techniques Academy and Laboratory	2015	1
Algeria	Direction Générale de la Sûreté Nationale	2002	3
Algeria	Gendarmerie Nationale	2003	1
Angola	Comando Geral Da Policia Nacional	2010	1
Argentina	Policia Federal Argentina	2011	1
Australia	New South Wales (NSW) Police Service	2000	1
Australia	Australian Federal Police (AFP)	2007	1
Australia	South Australia Police	2012	1
Australia	Queensland Police Service	2013	1
Australia	Western Australia Police Forensic Division	2014	1
Australia	Northern Territory Police, Fire and Emergency Services	2014	1
Australia	Victoria Police Forensic Services	2014	1
Bahamas	Royal Bahamas Police Force	2013	1
Barbados	Royal Barbados Police Force	2012	1
Belgium	Institut National de criminologie et criminalistique	2002	1
Belize	National Forensic Science Service	2012	1
Botswana	Botswana Forensic Laboratory	2013	1
Brazil	Secretaria de Segurança Pública de Espirito Santo	2001	1
Brazil	Instituto de Criminalística Carlos Éboli	2002	1
Brazil	Instituto de Criminalística Afrânio Peixoto	2007	1
Bulgaria	Ministry of Interior - Forensic Laboratory	2005	1
Canada	Royal Canadian Mounted Police	2002	2
Canada	Laboratoire science judiciaire et médecine légale	2003	1
Canada	Centre of Forensic Science	2003	1
Canada	Calgary Police Service	2011	1
Chile	Policía de Investigaciones de Chile	2003	2
Chile	Carabineros de Chile	2014	1
Colombia	Fiscalía General de la Nación	2000	2
Colombia	Departamento Administrativo de Seguridad (DAS)	2001	1
Colombia	Instituto de Medicina Legal	2001	2
Colombia	Policía Nacional DIJIN	2001	1
Colombia	Municipio de Medellín - Secretaria de Seguridad	2015	1
Costa Rica	Organismo de Investigación Judicial	2012	1
Croatia	Forensic Science Center of Croatia	2007	1
Curacao	Curaçao Police Force	2005	1
Denmark	National Center of Forensic Sciences	2001	1
Dominican Republic	Policía Nacional	2007	1
Ecuador	Policía Nacional del Ecuador	2009	2
El Salvador	Policía Nacional Civil	2007	1
El Salvador	Ministerio de la Defensa Nacional	2008	1
England	London Metropolitan Police	2005	1

IBIS TRAX-HD3D Budgetary Proposal for the Chattanooga Police Department

England	West Midlands Police	2007	1
England	Greater Manchester Police	2007	1
Greece	Hellenic Police	1997	2
Guatemala	Instituto Nacional de Ciencias Forenses (INACIF)	2010	1
Guatemala	Policia Nacional	2011	1
Guatemala	Direccion General de Control de Armas y Municiones (DIGECAM)	2011	1
Honduras	Policia Nacional	2009	1
Honduras	Ministerio Publico	2013	1
Hong Kong	Hong Kong Police	1998	1
India	CFSL, Ministry of Home Affairs	2004	3
India	Directorate of Forensic Science, State of Gujarat	2006	1
India	Directorate of Forensic Science Laboratories, State of Maharashtra	2009	2
Iraq	Kurdistan Region Erbil Criminal Evidence Laboratory	2012	1
Ireland	An Garda Siochana	2008	1
Israel	Israel Police	1998	1
Italy	Carabinieri	2001	4
Italy	Polizia di Stato	2003	4
Jamaica	Jamaican Constabulary Force	2006	1
Jamaica	Firearms Licensing Authority	2006	1
Jordan	Public Security Department - Forensic Science Laboratory	2013	1
Kenya	Kenya Police Criminal Investigation Department	2001	1
Kosovo	Kosovo Forensic Laboratory	2010	1
Kuwait	Kuwait Police	2007	1
Lesotho	Lesotho Mounted Police Service	2013	1
Macedonia	Ministry of Interior - Forensic Department	2007	1
Malaysia	Royal Malaysian Police	2010	4
Mexico	Procuraduría General de Justicia del Distrito Federal	2000	1
Mexico	Procuraduría General de la República (PGR)	2003	11
Mexico	Procuraduría General de Justicia del Estado de Nuevo León	2008	1
Mexico	Procuraduría General de Justicia del Estado de México	2009	1
Mexico	Procuraduría General de Justicia del Estado de Chihuahua	2009	2
Mexico	Procuraduría General de Justicia del Estado de Nayarit	2009	1
Mexico	Procuraduría General de Justicia del Estado de Tamaulipas	2009	1
Mexico	Secretaría de Seguridad Pública	2009	1
Mexico	Procuraduría General de Justicia del Estado de Aguascalientes	2010	1
Mexico	Procuraduria General de Justicia del Estado de Baja California	2010	1
Mexico	Procuraduria General de Justicia del Estado de Durango	2010	1
Mexico	Procuraduria General de Justicia del Estado de San Luis Potosi	2011	1
Mexico	Policia Federal Mexicana	2011	1
Mexico	Procuraduria General de Justicia del Estado de Guanajuato	2011	1
Mexico	Procuraduria General de Justicia del Estado de Queretaro	2012	1
Mexico	Procuraduria General de Justicia del Estado de Sonora	2012	2
Mexico	Procuraduria General de Justicia del Estado de Baja California Sur	2012	1

Mexico	Procuraduria General de Justicia del Estado de Yucatan	2012	1
Mexico	Procuraduria General de Justicia del Estado de Michoacán de Ocampo	2012	1
Mexico	Procuraduria General de Justicia del Estado de Chiapas	2012	2
Mexico	Procuraduria General de Justicia del Estado de Quintana Roo	2012	1
Mexico	Procuraduria General de Justicia del Estado de Jalisco	2012	1
Mexico	Procuraduria General de Justicia del Estado de Zacatecas	2012	1
Mexico	Procuraduria General de Justicia del Estado de Campeche	2012	1
Mexico	Procuraduria General de Justicia del Estado de Hidalgo	2012	1
Mexico	Procuraduria General de Justicia del Estado de Sinaloa	2012	1
Mexico	Procuraduria General de Justicia del Estado de Guerrero	2012	1
Mexico	Procuraduria General de Justicia del Estado de Puebla	2012	1
Mexico	Procuraduria General de Justicia del Estado de Veracruz	2013	1
Mexico	Procuraduria General de Justicia del Estado de Tlaxcala	2013	1
Mexico	Procuraduria General de Justicia del Estado de Morelos	2013	1
Mexico	Procuraduria General de Justicia del Estado de Coahuila	2013	1
Mexico	Procuraduria General de Justicia del Estado de Oaxaca	2014	1
Mexico	Procuraduria General de Justicia del Estado de Colima	2015	1
Mexico	Secretaría de Marina (SEMAR)	2015	1
Mexico	PGJE Texcoco, Estado de Mexico	2015	1
Mexico	PGJE Tlalnepantla de Baz	2015	1
Morocco	Police Technique et Scientifique, Surete Nationale	2009	1
Namibia	The National Forensic Science Institute of Namibia	2010	1
Netherlands	Netherlands Forensic Institute	2006	6
Norway	KRIPOS	2001	1
Oman	Royal Oman Police	2010	1
Pakistan	Forensic Division	2014	1
Panama	Policía Técnica Judicial	2006	1
Paraguay	Policía Nacional	2013	1
Peru	Policía Nacional	2012	3
Philippines	Philippines National Police	2010	1
Portugal	Policia Judiciaria de Portugal	2004	1
Portugal	Policia de Seguranca Publica	2013	1
Puerto Rico	Puerto Rico Police	1995	1
Qatar	Forensic Science Laboratory, Ministry of Interior	2008	1
Romania	General Inspectorate of Romanian Police	2006	1
Saudi Arabia	Saudi Ministry of Interior	2001	15
Scotland	Police Scotland	2008	1
South Africa	South African Police Service	1997	4
Spain	Dirección General de la Policía Nacional	1999	1
Spain	Dirección General de la Guardia Civil	1999	1
Swaziland	Royal Swazi Police	2009	1
Sweden	Swedish Forensic Center	2001	1
Taiwan	Criminal Investigation Department	1998	1
Thailand	Royal Thailand Police	1994	2
Trinidad & Tobago	Forensic Science Center, Ministry of National Security	2004	1
Turkey	Turkish Police	1997	3
United Arab of Emirates	Dubai Police Force	2009	1

United Arab of Emirates	Abu Dhabi Police	2009	2
United States	Bureau of Alcohol, Tobacco, Firearms & Explosives (ATF)	1993	122
United States	Broward Sheriff's Office	2009	1
United States	New York State Police Forensic	2001	1
United States	Suffolk County Crime Laboratory	2013	1
United States	Erie County Central Police Services Forensic Laboratory	2013	1
United States	Monroe County Crime Laboratory	2013	1
United States	Onondaga County Center for Forensic Sciences	2013	1
United States	Westchester County Police Department	2013	1
United States	West Virginia University	2004	1
United States	Phoenix Police Department	2007	2
United States	West Palm Beach County Sheriff's Office	2007	1
United States	Marion County Forensic Services	2009	1
United States	Sacramento Police Department	2009	1
United States	Seminole County Sheriff's Office	2011	1
United States	FDLE Tampa	2011	1
United States	Bergen County	2012	1
United States	Stockton County	1999	1
United States	FDLE Jacksonville	2012	1
United States	Dallas Police Department	2012	1
United States	Virginia Department of Forensic Science	2012	0
United States	Chicago Police Department	2012	1
United States	Pennsylvania State Police	2012	2
United States	Boston Police Department	2013	1
United States	San Bernardino County Sheriff's Office	2013	1
United States	Somerset County	2013	1
United States	FDLE Tallahassee	2013	1
United States	Knoxville Police Department	2013	1
United States	Mesa Police Department	2013	1
United States	Ventura County Sheriff's Office	2013	1
United States	Montgomery County Police Department	2013	1
United States	Long Beach Police Department	2013	1
United States	Baltimore County Police Department	2013	1
United States	San Diego Police Department	2013	1
United States	Virgin Islands Police Department	2004	1
United States	Oklahoma State Bureau of Investigation	2001	1
United States	Fort Bend County Sheriff's Department	2000	1
United States	New Orleans PD-SCID	1996	0
United States	New York PD	1995	0
United States	Wisconsin State Crime Laboratory	2013	1
United States	Federal Bureau of Investigation (FBI)	2013	1
United States	Valdosta-Lowndes Regional Crime Laboratory	2013	1
United States	Cumberland County Sheriff's Office	1998	1
United States	Tennessee Bureau of Investigation - Memphis Crime Lab	2015	1
United States	Alameda County	2014	1
United States	Sacramento County Sheriff's Department	2015	1
United States	Denver Police Department	2015	0
United States	Birmingham PD Firearms ID Unit	2002	1
United States	Contra Costa County	2015	1
United States	Metropolitan Government of Nashville and Davidson County	2015	1

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Venezuela	Cuerpo de Investigaciones Científicas, Penales y Criminalísticas (CICPC)	1998	3
Venezuela	Compañía Anónima Venezolana de Industrias Militares (CAVIM)	2006	1
Total Number of IBIS Sites Around the World			365

3 Overview of IBIS TRAX-HD3D System Components

Forensic Technology offers modular and scalable ballistic identification solutions that cater to the needs of Customers. We provide a series of system components that, when interconnected via an Ethernet Local Area Network (LAN) or Wide Area Network (WAN), create the required system.



Below is a list of the system components for the proposed system. A functional description of each component follows.

- BRASSTRAX Acquisition Station (Options 1 and 2)
- MATCHPOINT Analysis Station for Cartridge Cases (Option 1 only)

3.1 BRASSTRAX Acquisition Station

BRASSTRAX is the cartridge case-imaging component of the IBIS TRAX-HD3D product family. It digitally captures the areas of interest from the head of a cartridge case in 2D and 3D, offering considerable impression detail and multiple viewing perspectives.

BRASSTRAX is designed as a user-friendly, automated system that can be operated by law enforcement personnel who have minimal specialized training.

BRASSTRAX is equipped with cutting-edge 3D technology that allows the capture of high-definition 3D topography at the micrometer level, in addition to the high-resolution 2D images that are compatible with images from previous IBIS versions. This 3D technology was custom-designed by Forensic Technology to provide optimal performance for the specific characteristics of cartridge cases.

BRASSTRAX uploads the acquired data to the Data Concentrator, which processes it for correlation by the Correlation Server.



Figure 1 – BRASSTRAX Acquisition Station

Features

- Management of case, cartridge case exhibit, and firearm exhibit information
- Automated capture of the primer area, including breech face mark, centerfire firing pin impression, in 2D and 3D, as well as the complete head stamp
- Semi-automated capture of ejector mark and rim fire firing pin impression, in 2D and 3D
- Multiple light sources, including the patented IBIS ring light
- Multiple magnification levels
- Support of all calibers ranging from 0.17 to 0.50 and from 410 bore to 10 gauge for shot shells
- Superior 2D image quality and 3D data precision for greater correlation accuracy and optimal visual comparison capabilities
- Automated positioning, focus, lighting, and region-of-interest outlining
- Automated flowback and washout detection and correction
- Automated self-test and adjustment
- Automated acquisition reduces operator variability and ensures consistent image quality for optimal comparison performance
- Hands-off operation allows multitasking
- Minimal user training and expertise to operate
- Detailed online help and user guides

3.2 MATCHPOINT Analysis Station for Cartridge Cases

MATCHPOINT is the comparative analysis component of the IBIS TRAX-HD3D product family. It is the expert's analysis station for reviewing the potential match results returned by the Correlation Server. It provides dynamic 2D and 3D visualization tools enabling firearm examiners to make faster and more informed comparison conclusions.



Figure 2 – MATCHPOINT Analysis Station

An extensive array of viewers and functions assist with the identification of similar candidates. High-level analysis of correlation results and visual comparisons allow for the rapid elimination of non-matches. Powerful in-depth visualization tools provide capabilities far beyond those of the conventional comparison microscope, and make it easier to recognize high-confidence matches.

The work done using MATCHPOINT significantly increases the identification success rate, and decreases the effort required for ultimate confirmation on a conventional comparison microscope.

Features

- Display of independent scores for each correlated region of interest's 2D image type and 3D topography
- Ability to view a graphical representation of the correlation results, to expedite analysis
- Ability to view correlation results and images in a tile-screen mode to simultaneously display multiple cartridge case images
- Ability to compare exhibit pairs in a side-by-side mode for in-depth analysis, similar to the experience of using a comparison microscope, with many controls and tools
- Optimal viewing of surface markings with the adjustable combination of 2D and 3D, offering new perspectives and revealing useful shape and marking information
- 3D rendering allowing the operator to simulate different light conditions and surface compositions after the acquisition process
- Display of the 3D topography as a depth scale image
- Combination of the enhanced surface markings and the realistic shape makes it easier to locate and emphasize significant markings
- Display of an all-in-focus image of a cartridge case's primer area with every point in perfect focus on a single image, for easier visual comparisons
- Cross-section profiles
- Ability to manage and link potential matches and positive identifications
- Ability to handle cartridge case images acquired by IBIS Heritage, IBIS TRAX-3D, and IBIS TRAX-HD3D acquisition stations.
- Ability to connect to more than one Data Concentrator
- Ability to manually view and compare all exhibits in the IBIS database

- Ability to export images, reports, and side-by-side views
- Ability to generate standard and customizable reports
- Ability to create manual correlation requests
- Color printing of reports, information screens, viewer screens, and results

NOTE: The MATCHPOINT offered with option 1 does not include the 3D Bullet Viewer software license, meaning that the tools for viewing and analyzing bullets are not available.

3.3 Networking

IBIS features networking capabilities using the TCP/IP communications protocol. An IBIS network is fully compliant with industry standards for communication services such as SDSL, cable, satellite, and Ethernet.

The implementation of a network will extend the features of IBIS across a nation and beyond its borders. Some of these features include:

- A shared Correlation Server and Data Concentrator;
- Quickly share information across jurisdictions without depending on human intervention to transfer data;
- Automatic correlation of newly acquired exhibits against an IBIS database, which could be based on geographical regions, with regional and national coverage;
- Ability to request that a manual correlation be performed against a specific database subset that may differ from that of the automatic correlation request;
- Update of common data to ensure data synchronization at all IBIS sites;
- Image transfer from any site to any site for comparison purposes;
- Generation of statistical and data reports from any analysis station on the network.

Please refer to section 6.5.4 *Communications Lines for Providing Remote Technical Support and Networking IBIS Systems* for complete details on the required communications lines.

NOTE: ATF will be fully responsible for the provision, maintenance and financing of all telecommunication lines.

4 Pricing and Standard Terms

4.1 Option 1

Item	Description	Unit Price	Qty	Total Price (USD)
1.	BRASSTRAX Acquisition Station	\$130,000	1	\$130,000
2.	MATCHPOINT Analysis Station	\$60,000	1	\$60,000
3.	Services include site survey, installation and commissioning, on-site training for two (2) students, and one-year warranty for items 1 and 2 above. Travel and living expenses for our installer and instructor are excluded (see item 5 below).	n/a	1 lot	Included
4.	Shipping and handling charges DDP Customer Premises (Incoterms 2010)	\$2,925	1 lot	\$2,925
5.	Travel and living expenses for Forensic Technology's Installer and Instructor	\$8,881	1 lot	\$8,881
TOTAL (US Dollars)				\$201,806

Optional Item

6.	SafeGuard Extended Warranty & Protection Plan for items 1 and 2 above (following one-year warranty period)	\$23,750 per annum
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4.2 Option 2

Item	Description	Unit Price	Qty	Total Price (USD)
7.	BRASSTRAX Acquisition Station	\$130,000	1	\$130,000
8.	Services include site survey, installation and commissioning, on-site training for two (2) students, and one-year warranty for item 7 above. Travel and living expenses for our installer and instructor are excluded (see item 10 below).	n/a	1 lot	Included
9.	Shipping and handling charges DDP Customer Premises (Incoterms 2010)	\$1,755	1 lot	\$1,755
10.	Travel and living expenses for Forensic Technology's Installer and Instructor	\$6,050	1 lot	\$6,050
TOTAL (US Dollars)				\$137,805

Optional Item

11.	SafeGuard Extended Warranty & Protection Plan for item 7 above (following one-year warranty period)	\$16,250 per annum
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4.3 Standard Terms

4.3.1 Currency

All prices are quoted in **United States Dollars**.

4.3.2 Offer Validity Period

This offer expires on **July 31, 2016**.

4.3.3 Delivery

The delivery of the equipment will be within 120 days after receipt of order.

4.3.4 Shipping

The equipment will be shipped **DDP Customer Premises (Incoterms 2010)**. All charges related to exportation, customs clearance and importation of the goods, including duties and taxes are for the account of Forensic Technology. Income and/or sales and/or withholding taxes as well as extraordinary storage fees are excluded and will be for the Customer's account.

4.3.5 Payment Terms

Forensic Technology's terms of payment are 100% net 30 days after shipment.

4.3.6 Property Title and Risk of Loss

Title and risk of loss of the equipment shall pass to the Customer when the equipment arrives at the point of delivery, regardless of completion of on-site Test Procedure and other services required under the contract.

4.3.7 Duties, Taxes, Fees, Charges and Assessments

All charges related to exportation, customs clearance and importation of the goods, including duties and taxes are for the account of Forensic Technology. Income and/or sales and/or withholding taxes as well as extraordinary storage fees are excluded and will be for the Customer's account.

4.3.8 Connection to NIBIN

This offer is subject to ATF granting the Customer membership to NIBIN through a Memorandum of Agreement (MOA) between the two parties.

5 Training Program

The proposed solution includes a comprehensive multi-step training program to be delivered in English at the Customer site. **If the students are not already ATF-certified NIBIN users, they will have to pass an ATF competency test in order to be granted access to NIBIN by ATF.**

5.1 On-Site Basic User Training

Option	Description	Duration
1	BRASSTRAX Acquisition Station and MATCHPOINT Analysis Station for Cartridge Cases	Five (5) consecutive working days
2	BRASSTRAX Acquisition Station	Four (4) consecutive working days

The training will be facilitated by one (1) certified instructor for a maximum of two (2) students. The Basic User Training addresses the following topics:

- System components
- Navigation of GUI
- Case management
- Acquisition protocols
- Interpretation of correlation results
- Image management and analysis
- Hit management
- Reports
- Data backup
- Numerous practical exercises

5.2 e-Learning

An e-Learning module introducing the new features of IBIS® TRAX-HD3D™ is now available to all our users. After the Basic User Training, all users will receive an email with the website address and their credentials to access the e-Learning platform.

In addition to this website providing easy access to the e-Learning modules, users can also use it to consult online certified instructors and training documentation.

5.3 Coaching

Following the Basic User Training course, Forensic Technology will assign an instructor to the newly trained operators to answer questions arising from the use of the IBIS TRAX-HD3D system. Teleconferences or webinars can be scheduled to address a group of students, or alternatively individual students can call or send e-mails to the instructor.

5.4 On-Site Follow-Up Training

After the newly trained operators have accumulated several months of experience with the IBIS TRAX-HD3D system, Forensic Technology will send an instructor to the Customer site for Follow-Up Training. This training will last three (3) consecutive working days and will be facilitated by one (1) certified instructor for a maximum of four (4) students.

The Follow-Up Training session will address the following topics:

- Assessment of user's acquisition and analysis techniques
- Assessment of existing data entries

- Review of acquisition protocols
- Coaching on specific tasks and functions

5.5 Post-Training Support

Once all training courses have been completed, system operators can continue contacting Forensic Technology instructors for post-training support. This service is available via telephone or e-mail and as long as the equipment is under warranty or covered by the SafeGuard Extended Warranty and Protection Plan.

5.6 Equipment and Student Availability

During the on-site training course(s), the system and the students must be made available to the instructor for the required number of working days.

NOTE: If equipment and/or student availability is restricted for any reason and results in the requirement for the instructor to extend his stay and/or return on-site at a later date to complete the training, all additional expenses for the instructor pertaining to such event(s) will be for the Customer's account.

5.7 Training Procedure

In order to maximize the training experience, the following procedure must be followed:

1. The student(s) must commit to attend each of the number of days of their training course.
2. At the end of the Basic User Training session, the student's abilities will be assessed by the instructor.
3. Following the Basic User Training session, students should begin acquiring specimens in the workplace almost immediately in order to refine their newly learned skills and obtain high-quality acquisitions.
4. Forensic Technology requires, at minimum, 60 calendar days of notice to book a training session. Any training session booked within lesser lead-time may be subject to a 10% surcharge on the price of the training session.

5.8 Training Documentation

Students will be given English language Training Documentation.

5.9 Training Policy

It is Forensic Technology's policy that all system operators be trained by a Forensic Technology certified instructor. Failure by the Customer to adhere to this policy may void all warranties and service agreements.

6 System Deployment

6.1 Pre-Routing Information

At contract award or shortly thereafter, the Customer and/or End User will be asked for information in order to accelerate and optimize the deployment process, as follows:

- Detailed consignee information (contact names, addresses and coordinates)
- Documentation requirements
- Any other pertinent information

6.2 Site Survey

The purpose of the site survey is to verify that the sites selected by the Customer for the installation of the system comply with the facility requirements described in section 6.5. Our specialist will travel to each site and will do the following:

- Meet local staff and collect customer contact information.
- Evaluate the physical characteristics of the site:
 - Storage Space: Sometimes system components may need to be stored temporarily prior to installation
 - Building Access: Since some system components are shipped in large crates, Forensic Technology personnel must ensure that the building and the room can accommodate the size of the crates; otherwise, alternate arrangements will need to be made.
 - Floor Space: Assessment of available floor space for the system, including verification of floor surface (carpet, tiles, etc.) and floor stability (vibration)
 - Environmental Factors: Temperature, humidity, dust free environment, and exposure to direct sunlight
 - Assessment of available equipment (e.g., forklift) to carry the crates
- Determine the availability of laboratory personnel on whom our installer can call upon if needed and become aware of the laboratory working hours and other pertinent information.
- Evaluate the available communication methods (SDSL), as well as the quality and stability of the AC power.

Upon completion of the site survey, Forensic Technology will submit to the Customer a written report. This report will outline instructions and recommendations that the Customer needs to carry out to ensure the site is ready to receive the system.

NOTE: If, at installation time, one or more sites do not fully meet our facility requirements, and our technician has to return on-site or extend his visit to complete the installation, all additional expenses (labor, travel, living, etc.) incurred by Forensic Technology will be charged to the Customer.

6.3 Equipment Transport and Delivery

After successful factory tests, the system will be disassembled, packed and delivered to the Customer for installation by Forensic Technology qualified personnel.

The Customer will be responsible for the following:

- Supplying suitable off-loading facilities, forklift, dolly, and other moving equipment
- Preparing the room where the equipment will be located, including the provision of suitable electrical power and communication lines (refer to section 6.5 below)
- Insuring the room where the equipment will be located is air-conditioned, has a room temperature between 15 and 30 degrees Celsius (59 to 86 degrees Fahrenheit) with a relative humidity between 40 and 70%
- Providing access to the installation site, including access during off-hours if so required

6.4 Storage Requirements

In the case where the delivered system(s) will be kept in storage prior to installation, the storage facility will need to meet the requirements described below.

6.4.1 Storage Facility

While in storage, Forensic Technology products must remain crated in their shipping crates. These crates must be stored in a storage facility that is well protected against extreme weather conditions and that has a clean and controlled environment. Extreme cold, high temperatures, high humidity, and the presence of dust and corrosive elements in the air all affect the life expectancy of our products.

6.4.2 Temperature

The temperature of the storage facility must be maintained between 0 and 50 degrees Celsius (32 to 122 degrees Fahrenheit) with humidity from 30% - 60%. Temperatures that are too low should also be avoided; temperatures lower than 0 degrees Celsius (32 degrees Fahrenheit) may actually harm the material and shorten, rather than extend, life expectancies. Rapid temperature changes are also undesirable as they introduce stresses.

6.4.3 Vibration

The storage facility cannot be subject to vibrations. Any vibration near our products can cause potential damage to the mechanical and computerized systems.

6.4.4 Battery Storage

Batteries should be kept at 20°C (68°F) for optimum battery storage and at 0 to 95% non-condensing relative humidity. It is very important to note that these batteries need to be recharged after 4 to 6 months of storage in order to keep their life expectancy and functionality. Batteries that fail to comply with these requirements will not be efficient when connected to the UPS and will require replacement.

NOTE: Batteries contain heavy metals such as mercury, lead, cadmium, and nickel, which can contaminate the environment when batteries are improperly disposed of. Please refer to the country regulations regarding battery disposal.

6.5 Guidelines for Installation Site

Forensic Technology will provide the Customer with the formal facility requirements document prior to the start of the project.

6.5.1 Footprint

The Customer will need to provide a room with sufficient space to house the IBIS TRAX-HD3D system components: BRASSTRAX and MATCHPOINT.

The footprint required for each major IBIS TRAX-HD3D component is detailed below:

- **BRASSTRAX Acquisition Station**

The BRASSTRAX Acquisition Station can be installed on a sturdy table or desktop, which is to be supplied by the Customer. Both the table and work desk need to be next to each other and when combined with the operator's chair and access space require a footprint of W91" (231 cm) x D97" (247 cm) x standard room height.

- **MATCHPOINT Analysis Station**

The MATCHPOINT Analysis Station comprises a computer and a printer. The computer rests on a work desk and the printer on a table, which are to be supplied by the Customer. Both the work desk and table need to be next to each other and when combined with the operator's chair and access space require a footprint of W91" (231 cm) x D97" (247 cm) x standard room height.

6.5.2 Power Source Requirements

Equipment	Power Source Requirement	Circuit Breaker Rating	Approx. Heat Dissipation (BTU Per Hour)
BRASSTRAX Acquisition Station with computer and monitor	100 – 120 VAC 60 Hz single phase; or 220 – 240 VAC 50 Hz single phase	2000 VA	4700
MATCHPOINT Analysis Station	100 – 120 VAC 60 Hz single phase; or 220 – 240 VAC 50 Hz single phase	1000 VA	2500
MATCHPOINT Printer	100 – 120 VAC 60 Hz single phase; or 220 – 240 VAC 50 Hz single phase	1000 VA	

6.5.3 Environment

Air conditioning is mandatory. The Customer must maintain the temperature of the room(s) housing the system between 15 to 30 degrees Celsius (59 to 86 degrees Fahrenheit) with a relative humidity between 40 and 70% at all times.

Forensic Technology recommends that the system be installed in a climate-controlled location with a relatively dust-free operating environment. Carpeting is not recommended.

6.5.4 Communications Lines for Providing Remote Technical Support and Networking IBIS Systems

The Customer will have to furnish the communications lines needed for Forensic Technology to provide remote technical support and, if necessary, for networking with other IBIS Systems.

For remote technical support, the Customer must provide and maintain one dedicated telephone line and one high-speed Internet line (see specifications below). It is also recommended that the Customer have available one dial-up modem line to be used as a backup link when the high-speed Internet line is non-functional. Dedicated communications lines are required to satisfy security and bandwidth concerns.

For networking with other IBIS Systems, the same high-speed Internet line as used for remote technical support can be employed assuming the bandwidth requirements listed below are met.

Specifications for High-Speed Internet Line	
Type (in order of preference)	<ol style="list-style-type: none"> 1. Direct uncontended Internet connections (e.g., E1 or T1 leased line to the Internet) 2. Long range (or Metro) Ethernet 3. A spare public IP address from the customer's own corporate network 4. Business Grade SDSL (i.e., preferably with a high quality Internet service provider (ISP) service level agreement (SLA) and not more than 10:1 contention ratio) 5. Cable 6. Satellite 7. ADSL: This is the least preferred choice that should be selected only if no other options are available.
Service Level Agreement	95% availability recommended to ensure optimal network performance and high-quality service
Line Speed for Standalone System	Minimum of 512 kbps download and upload, with contention ratio of not more than 20:1
Line Speed for Network of Systems	Minimum of 1 Mbps download and upload, with contention ratio of not more than 10:1
IP Address	Fixed Public Ethernet IP address (PPPoA can be supported if only an ATM circuit is available)
IP Address Assignment	Statically configured or dynamically assigned (but IP address must not change)
Grade	Business grade with support for IPsec VPN protocol
Physical Connection	Ethernet RJ-45
Other Requirements	<ul style="list-style-type: none"> ▪ Provide Forensic Technology with Fixed Public IP address, Subnet Mask value, Gateway value, and DNS address. ▪ The service provider equipment (e.g., modem) must not be configured with any security (i.e., no firewall) or NAT (Network Address Translation). ▪ The provision of an analog, dial-up modem line is recommended. It will be used as a backup to the high-speed internet line in case the latter becomes non-functional. ▪ Grant Forensic Technology authorization to contact the service provider directly to resolve any technical issues that may arise with the high-speed Internet line.

NOTE: ATF will be fully responsible for procuring, furnishing and financing all communications lines. Forensic Technology will not be liable for the lack of technical support to the Customer due to unsuitable communications lines.

6.5.5 Local Area Network (LAN)

The various components of the proposed system are interconnected via a Fast Ethernet (100Base-T) LAN. Following are the connectivity requirements:

- The maximum distance between system components on the LAN is 100 meters when CAT 5E or CAT 6 cabling terminated with RJ-45 connectors is being used. For longer distances, repeaters must be installed.
- If all the system components are to be installed in the same room and the length of the LAN cable run does not exceed 30m / 100', Forensic Technology will be able to provide the hardware, and the labor needed to set up the LAN. This labor will be limited to performing work on Forensic Technology components.

If there is one or more system components to be installed in the same building but at different locations (i.e. not in the same room, floor), then Forensic Technology will require collaboration from the Customer's local IT and building maintenance staff to facilitate the installation. The network infrastructure should be Category 5 or 6 compliant and terminated with an RJ-45 connector. Any network point provided should be within 2m / 79" of the component.

6.6 Installation

The installation of the system at the Customer-prepared site will be concluded as follow:

Option	Description	Duration
1	BRASSTRAX Acquisition Station and MATCHPOINT Analysis Station for Cartridge Cases	Within two (2) consecutive working days
2	BRASSTRAX Acquisition Station	Within one (1) working day

6.7 On-Site Acceptance

Following the installation of the system at the Customer site, Forensic Technology will execute a Test Procedure. Upon the successful completion of this on-site Test Procedure, the system shall be deemed accepted and the Customer's authorized personnel shall be required to sign the *Certificate of Conformance and Final Customer Acceptance* form. The warranty commences upon the successful completion of the on-site Test Procedure. Acceptance on-site is not to be construed as transfer of title of ownership to the Customer, which is addressed under paragraph 4.3.6 herein.

7 SafeGuard Warranty and Protection Plan

The proposed solution includes a **One-year, wide-coverage warranty** (parts and labor) that commences upon the successful completion of the on-site Test Procedure (refer to section 6.7), or three months from the date of shipment, whichever comes first.

Forensic Technology's SafeGuard plan ensures that a Customer's investment yields exceptional results on a consistent basis by maintaining the IBIS TRAX-HD3D system at an optimal performance standard. The intrinsic value of SafeGuard is its time-resilient protection of the Customer's technology investment that, in turn, results in the benefits provided by an effective and sustainable solution.

Following the expiration of the standard warranty, Forensic Technology offers Customers its SafeGuard Extended Warranty and Protection Plan. Forensic Technology strongly recommends that Customers invest in SafeGuard to protect their assets in subsequent years. The contract value of SafeGuard for the first follow-on year represents a percentage per annum of the purchased equipment list price. Fees for subsequent years will be indexed annually.

7.1 Services

Our standard warranty and SafeGuard plan provides Customers with the following services:

7.1.1 Support Center

Forensic Technology has an international support center to serve Customers. The support center provides:

- Customer and technical support (help desk) via telephone and/or e-mail
- 24/7 telephone hot line with callback within one hour
- Dedicated toll-free telephone number: 1-877-558-7298
- Internet e-mail address: fti.support@ultra-ft.com
- Support resources at Forensic Technology's Web site: www.forensictechnology.com.

Calls can be placed 24 hours a day, 7 days a week. If a help-desk administrator cannot answer the call immediately, the Customer can leave a message and can expect a return call within one hour.

Our help-desk administrators are an excellent resource for assistance to operators with system-related questions.

7.1.2 Technical Support

Forensic Technology provides technical support to diagnose and resolve problems.

These support tasks are performed using communication channels provided by both Forensic Technology and the customer in the following sequence:

1. Telephone and emails: These communication channels work for simple incidents where Forensic Technology can guide the user through the solution that does not require a Support Specialist to connect to the site.
2. Remote support: This method is used in the vast majority of incidents to ensure a fast resolution by using a connection to the customer site using the service communication lines (please refer to section 6.5.4). Remote support has the added benefit that resolution can be pursued 24/7 by Forensic Technology personnel around the world, including product experts and developers.
3. On-site remedial visit: This is the method used as a last resort because of the travel time and limited resource effectiveness. This approach involves traveling to site to diagnose and resolve the incident (please refer to section 7.1.7). Typically, once on site Forensic Technology personnel will have a limited number of communication channels and no possibility for Forensic Technology expert to connect and assist. In some instances, a second or third visit (with spare parts for repairs) may be required to come to a full resolution, meaning further delays.

The time for service rendered is directly proportional to the existence and quality of the service communication line installed on-site. Forensic Technology can only provide timely and diligent service (diagnostics, repairs, software upgrades, software patches, etc.) with the presence of recommended and functional service communication lines.

The Customer will be notified on how long it will take to correct the problem. Whenever possible, an initial solution will be provided. Materials and/or a support technician on-site will be provided, as required, in a timely manner. Please refer to our Service Level Objective in Section 7.1.17.

7.1.3 Proactive Support Services

To maximize system availability, and as part of our process to continually improve services offered to our customers, Forensic Technology offers the customer proactive remote monitoring of system properties and configuration data collection services on the installed systems. Enabling the software to perform these tasks will provide us with information regarding the following:

- CPU usage, percentage of free disk space, percentage of free memory
- Computer uptime
- Database uptime
- Backup success
- UPS status
- Correlation success
- Replication success

When any one or more of the above items are out of the normal tolerance, a message is automatically sent to Forensic Technology's Support Department and a reactive incident is opened. This gives Forensic Technology the opportunity to identify and address computer issues in a much timelier manner. Proactive Support Services include the analysis of system hardware, software properties, and configuration. This allows Forensic Technology to keep its

customer systems configuration data accurate and is required prior to and after hardware and software updates. The use of this service does not impact the usage of your equipment.

Customers already receiving this service will continue to receive these benefits and, for those who do not wish to participate, this service will not be enabled.

Regardless of whether the customer has opted for Proactive Support Services, our Support Department will always contact the customer and seek permission to perform any action on the installed IBIS equipment, such as troubleshooting, software upgrades or changes, and data modification.

NOTE: For IBIS Systems connected to NIBIN, these services must be approved by ATF prior to their deployment.

7.1.4 Maintenance Window

Forensic Technology will discuss with the customer the implementation of a predetermined maintenance window during which our Support Specialists could establish a connection with the system, thereby not requiring contact or prior permission for each occurrence.

This maintenance window will be outside of the customer's working hours, in order to not interfere with usage of the equipment. Typically, this means the maintenance window would be before 05:00 and after 17:00 local time weekdays and anytime during the weekend. The maintenance windows will be used by Forensic Technology to carry out system maintenance or actions that will have no impact on the usage of the equipment and will not change any of the IBIS data.

Customers who have already agreed to a maintenance window will continue to receive these benefits and for those who do not wish to participate, the current Standard Operating Procedure will remain. The established maintenance window can be modified, suspended or revoked by the customer at any time.

Our Support Department will continue to contact the customer and seek permission to perform any action that may impact usage of the installed IBIS equipment. Examples of such activities include without limitation troubleshooting, software upgrades or changes, and data modification.

7.1.5 Replacement of Defective Hardware

Forensic Technology will replace defective hardware; it will be installed by a certified Forensic Technology field technician. Shipping charges for the replacement hardware will be paid for by Forensic Technology. Any product or component, or part thereof so replaced or repaired, will be warranted by Forensic Technology for the balance of the current SafeGuard validity period.

Any and all such replacements or repairs necessitated by the fault of the use of power sources supplied by others, or by attack and deterioration under unsuitable environmental conditions, or Customer inappropriate use or negligence, shall be for the account of the Customer. Forensic Technology shall not be obliged to pay any costs or charges including "back charges" incurred by the Customer or any other party except as may be agreed upon in writing in advance by

Forensic Technology. The cost of demonstrating the need to diagnose such defects at the Customer site, if required, shall be for the account of the Customer.

7.1.6 Minor Hardware Upgrades

Prior to the deployment of a software upgrade, Forensic Technology will evaluate the capacity of each system computer and, if necessary, will upgrade the random-access memory (RAM) and/or hard disk drive. These upgrades will ensure that the new IBIS application software continues to run optimally on the computer. The decision to perform a minor hardware upgrade on a given computer is at the sole discretion of Forensic Technology.

NOTE: For IBIS Systems connected to NIBIN, all hardware upgrades required as a result of a mandatory software upgrade by ATF will be for the Customer's account.

7.1.7 On-site Remedial Support

The majority of reported incidents are resolved over the telephone and remotely via the service communication line, **which is furnished and maintained by the Customer.** In the other cases where the diagnostic performed over the telephone and remotely, requires on-site remedial support, Forensic Technology will send a certified field technician to perform the corrective maintenance and return the system to operation. Before leaving the site, the field technician will complete a Work Order Summary Report and will leave a copy of this report with the Customer.

7.1.8 Proactive Maintenance

When delivering on-site remedial support, the Forensic Technology field technician will also perform proactive maintenance on the system to ensure its optimal operation, if time permits. The field technician will inspect, clean, lubricate, and calibrate the system, and will perform visual and functional verifications. The field technician will also take note of any worn parts that require replacement, either immediately or during a subsequent site visit.

7.1.9 Customer Care Program

Forensic Technology cares about the impact its products and services have on the mission-critical work of our Customers. Forensic Technology has therefore instituted the Customer Care Program to foster the relationship between our professionals through timely, proactive communications. Forensic Technology wants to understand the Customer's environment and constraints so that it can react swiftly to optimize the Customer's usage of our products.

During the site visit or telephone call, a senior Forensic Technology representative will talk to the user(s) about their experience with the system, support activities, workflow processes, existing and upcoming features, and other topics of interest.

7.1.10 Correction of IBIS Application Errors (Software Bugs)

If the Customer detects and reports an application error (software bug) to our support center, a Software Trouble Report will be issued to Forensic Technology's Engineering department. The committed turnaround time for replying to a Software Trouble Report is dependent upon the impact of the application error on the Customer's system. For a major problem (one that

seriously diminishes the operation of the system), a patch will be implemented on the system as soon as our engineers devise a solution to the problem. For a minor problem (one that does not severely affect the operation of the system), the problem will be addressed and the solution will be implemented in the next software version.

7.1.11 Software Upgrades

By participating in our SafeGuard plan, the Customer's initial software investment is guaranteed to evolve over time. With SafeGuard, the IBIS application software will be upgraded to reflect the new features and functionalities that have been researched and developed by our dedicated team of scientists, product developers, and law enforcement experts. Software upgrades also address the life cycle management of third-party software including operating systems, database management, and backup software. However, Forensic Technology will upgrade the third-party software supplied with the system (as listed in our records) only if it decides that it is absolutely necessary to keep the system current within a licensed version.

Software upgrades may be released as a service pack update or as part of a major software version release. Forensic Technology deploys software upgrades using the system's service communication line, after receiving approval from the Customer. Database configuration changes may also be performed during the upgrade process. Only sites with the recommended service communication line having the required quality of service can have their software upgraded remotely.

NOTE: For IBIS Systems connected to NIBIN, all software upgrades, service packs and patches must be approved by ATF prior to their deployment and will be deployed according to the NIBIN approved schedule.

7.1.12 Backward Compatibility

Software upgrades and corrections will provide for backward compatibility with existing data. This does not apply to the introduction of new products or significantly different technology.

7.1.13 User Documentation

Should a software upgrade require changes to the documentation, Forensic Technology will amend the user documentation at no extra cost. Additional copies can be made available in PDF format at no extra cost or in printed format at a nominal cost.

7.1.14 Assistance with Custom Report Templates

The system includes a set of standard report templates. It also includes the functionality for users to generate their own customized report templates based on a variety of parameters. Should users require guidance beyond their basic training, our Global Customer Services department will provide expert technical assistance over the phone to help users create customized report templates.

7.1.15 Travel and Living Expenses

Travel and living expenses of our personnel are covered by Forensic Technology when they are related to the delivery of the services included with the standard warranty or SafeGuard plan.

7.1.16 Annual Status Report

During the year, Forensic Technology carries out many activities with users and on the system. Forensic Technology tracks all of these activities with its service management software tool, which allows Forensic Technology to generate and submit the Annual Status Report to the Customer.

This report documents all activities within the last 12 months and is made available to the Customer in PDF or hard copy format. The report documents interactions with users, proactive calls and visits, remote and on-site corrective maintenance, remote and on-site proactive maintenance, software upgrades, training courses, Customer Care activities, and other events.

7.1.17 Service Level Objective

Forensic Technology strives to achieve excellence in delivering Customer Services. Our mission is to provide Customers with first class services that exceed industry standards for quality, security, and customer satisfaction. To reach this goal, Forensic Technology has become ISO certified and has now embarked on an ITIL compliance program and the associated certification program.

For our Customers, this translates into a Service Level Objective of no less than **95 percent system availability**. This objective is for each IBIS TRAX-HD3D system and is based on a 24/7 operational availability calculated per quarter, to the minute. Scheduled maintenance and system downtime caused by events not under the control of Forensic Technology (called unavailable minutes) are excluded from this calculation.

Definitions:

- System Uptime equals the number of system components at the Customer site multiplied by number of minutes in a quarter.
- System Downtime equals the cumulative number of minutes that each system component was nonoperational during the quarter. System Downtime excludes the time required to perform scheduled maintenance and any other downtime caused by events not under the control of Forensic Technology.

7.2 Warranties, Material, Workmanship, and Title

Forensic Technology warrants to the Customer that all products delivered by Forensic Technology shall be new and free from defects in material, workmanship, and title.

Forensic Technology expressly warrants the products manufactured by it, as meeting the applicable Forensic Technology specifications.

Forensic Technology makes no other warranties either expressed or implied (including without limitation warranties as to merchantability or fitness for a particular purpose). The Customer retains responsibility for the application and functional adequacy of the purchased system.

The customer or any other third party must not alter the system's configuration, either by installing hardware/software or modifying system parameters. Should any modifications be performed by any party other than Forensic Technology, Forensic Technology reserves the right to void the balance of the system's warranty.

7.3 Discontinuation of SafeGuard

In the event that the Customer opts out of SafeGuard by early termination or at the end of the term and if, in the future, the Customer then wishes to reinstate SafeGuard, a reactivation fee will apply and the Customer will be responsible for any costs required to upgrade the installed technology to the current supported baseline.

7.4 Availability Commitment

Forensic Technology commits to the supply of spare parts for a period of seven (7) years from installation of the equipment. If a defective component cannot be replaced due to discontinuation by its manufacturer, Forensic Technology will make the utmost effort to propose an alternate solution.

7.5 Customer-supplied Communication Lines

The maintenance and furnishing of necessary communication lines whether within varied network topologies (inter-site communication lines) or other, will be the responsibility and duty of either the Customer and/or the ATF in the case of IBIS systems connected to NIBIN.

The time for service rendered is directly proportional to the existence and quality of the service communication line installed on-site. Forensic Technology can only provide timely and diligent service (diagnostics, repairs, software upgrades, software patches, etc.) with the presence of recommended and functional service communication lines. Without an optimal service communication line, Forensic Technology will not be able to meet its Service Level Objective.

Forensic Technology is not responsible for nonfunctional communication lines due to any reason other than a system-related problem. Forensic Technology may have to charge the Customer for any service calls caused by noncompliant communication lines.

7.6 Additional Services Included with Extended SafeGuard

These services are offered starting the second year of a multiple-year warranty and are applicable if the optional items in section 4 are purchased.

7.6.1 Preventive Maintenance Visits for IBIS® TRAX-HD3D™ Systems

When a system experiences a hardware failure, one of our field technicians is dispatched to the site and performs both corrective and proactive maintenance on the system. However, in instances where a system does not experience a hardware failure in 24 months from the last field technician visit, Forensic Technology will automatically schedule a preventive maintenance visit to ensure the system continues to run at optimal performance. During this visit, the field technician will inspect, clean, lubricate, and calibrate the system, and will

perform visual and functional verifications. The field technician will also take note of any worn parts that require replacement, either immediately or during a subsequent site visit.

7.6.2 Coaching

Forensic Technology strives to offer its customers the best possible ballistics identification solution coupled with ongoing support and maintenance. Our experience has also taught us that unless we continually invest in keeping our customers skilled in operating IBIS TRAX-HD3D, updated on new features and taught new acquisition and analysis techniques, they will never get the most from the investment that has been made. With this in mind, Forensic Technology will be offering its IBIS TRAX-HD3D customers (with a valid SafeGuard contract) annual refresher training. Depending on the needs of each Customer, this will involve up to 3-days of training from one of our senior instructors. This coaching session is not designed for new users but those that have received basic training and use IBIS regularly.

The coaching session will address the following topics:

- Assessment of user's acquisition and analysis techniques
- Assessment of existing data entries
- Review of acquisition protocols
- Coaching on specific tasks and functions
- Introduce new functionalities

7.7 Services Excluded from SafeGuard and Available for an Additional Fee

The following services are not covered by the initial system warranty or SafeGuard contract, but if requested, Forensic Technology can provide a quotation.

7.7.1 Quality Check

Because quality and integrity of the IBIS database are integral to capturing the highest return on the technology investment, Forensic Technology offers Quality Check, an on-site training consultation that increases the productivity of the Customer's team. Operator turnover and lack of a training budget can result in the underutilization of the technology. Quality Check, when added to the SafeGuard plan, will promote a continuous knowledge transfer and enhance the ability of the IBIS operators. Key features of Quality Check are:

- On-site training consultation
- IBIS database integrity and image quality assessment
- User coaching that is customized to particular needs
- Detailed report of findings to Customer Management

7.7.2 System Relocation

In the event that the Customer needs to relocate the system or a component thereof to another locale, the Customer will need to engage the services of Forensic Technology. Failure to notify and employ Forensic Technology will automatically void any outstanding warranty or SafeGuard agreement.

7.7.3 Change to Customer-supplied Communication Lines

Should the Customer decide or need to change the type and/or characteristics of the service and/or inter-site communication lines, Forensic Technology will need to be informed and will issue a quotation for the cost of adapting the system accordingly. The Customer is responsible for all costs related to the provision and usage of all communication lines.

7.7.4 Creation of Custom Report Templates

The system includes a set of standard report templates. Forensic Technology can provide a service to create customized report templates as per customer specifications, within the capabilities of the IBIS report application.

7.7.5 Repairs Due to System Abuse or Misuse

The Customer is responsible for the cost of any repairs required due to the abuse or misuse of the system's software and/or hardware by the Customer. This includes:

- Any damage caused by failure of the Customer to reasonably maintain the hardware and software, including but not limited to, insufficient cooling, and loss of documentation or of supplied media.
- Removal of unauthorized hardware components and/or software applications from the system.

In such cases, Forensic Technology reserves the right to void any outstanding warranty or SafeGuard agreement. Furthermore, Forensic Technology does not guarantee that any corrective action taken following system abuse or misuse will assure the integrity of the user data.

7.7.6 Consumables

Consumables included in the initial purchase of a system are not covered by the warranty or SafeGuard agreement. These items, such as printer paper, printer toner, and backup tapes, can be purchased from Forensic Technology.

7.7.7 Requested Data Transfer

Without a communications network between IBIS systems, it is not possible to share data for the purpose of exhibit correlation with other IBIS databases. However, with the presence of the recommended communication line at the two Customer sites, Forensic Technology can manually transfer data from one site to another.

7.7.8 Hardware Upgrades

Hardware upgrades to increase performance or to accommodate growing IBIS database sizes **must be purchased by the Customer.**

Forensic Technology must provision and install all hardware upgrades to ensure that the system is using only those components that will optimize its operation. Installation of hardware components by any other party will void any outstanding warranty or SafeGuard agreement.

NOTE: For IBIS Systems connected to NIBIN, all hardware upgrades required as a result of a mandatory software upgrade by ATF will be for the Customer's account.

7.7.9 Travel and Living Expenses

Travel and living expenses incurred by Forensic Technology in order to provide any extra service requested by the Customer shall be paid directly by the Customer or reimbursed to Forensic Technology at cost plus an administrative fee of 15 percent.

8 Other Terms of Business

8.1 Arbitration

In the event of any dispute, claim, question, or disagreement arising from or relating to the contract resulting from this proposal or the breach thereof, the parties hereto shall use their best efforts to settle the dispute, claim, question, or disagreement. To this effect, they shall consult and negotiate with each other in good faith and, recognizing their mutual interests, attempt to reach a just and equitable solution satisfactory to both parties. If they do not reach such solution within a period of 60 days, then, upon notice by either party to the other, all disputes, claims, questions, or differences shall be finally settled by arbitration under UNCITRAL rules, at a neutral venue and under applicable law to both parties.

8.2 Limitation of Liability

Except as may be prohibited by applicable local law, in no event shall Forensic Technology be liable for any special, incidental, indirect, or consequential damages whatsoever (including, without limitation, damages for loss of business profits, business interruption, loss of business information, or any other pecuniary loss) arising out of the use of or inability to use the software or the delivery or failure to deliver support services, even if Forensic Technology has been advised of the possibility of such damages.

8.3 Termination for Convenience

Upon written notice to that effect from the Customer, should any contract resulting from this proposal be terminated for the convenience of the Customer, Forensic Technology shall be entitled to compensation from the Customer, as follows:

- If the termination notice is received prior to the equipment being packed at the factory, the Customer shall pay Forensic Technology 35% of the total value of the contract, as well as any costs incurred to put in place and cancel any bonds or other sureties required by the Customer.
- If the termination notice is received after the equipment is packed and/or shipped, but prior to installation at the Customer's site, the Customer shall pay Forensic Technology 45% of the value of the contract. In addition, the customer will also reimburse Forensic Technology for the costs of crating and shipping the equipment to the Customer's site and back to Forensic Technology, as well as any costs incurred to put in place and cancel any bonds or other sureties required by the Customer.

The contract cannot be terminated once the equipment is installed at the Customer's site.

8.4 Force Majeure

Forensic Technology shall not be liable for any delay or failure to perform any of its obligations hereunder due to causes beyond its control and without its fault or negligence. Such causes shall be deemed to include, but not be limited to: acts of God or the public enemy; national emergencies, war, civil disturbances, insurrection or riot; strikes, lockouts, or any other industrial disputes; fire, explosion, flood, earthquake or other catastrophes; energy shortages;

serious accident, epidemic or quarantine restriction; embargoes, allocations necessitated by material shortages, delays in deliveries by Forensic Technology's suppliers or subcontractors, or failure of transportation; or any law, order, regulation, direction or request of any government which have effect on this contract.

8.5 Software Licenses

Please refer to the Annex 1 "Software License Agreement for the IBIS® Family of Products" for the license agreement text that resides on the machine and that the users are required to accept.

ANNEX 1

SOFTWARE LICENSE AGREEMENT FOR THE IBIS® FAMILY OF PRODUCTS

License fees for the IBIS® family of products and all software provided with the system are included in the initial purchase price, and are included in any maintenance fee afterwards, for hardware forming part of the initial purchase or purchased as options.

The following license agreement applies to the purchase and use of the IBIS family of products, whether the units are part of the initial purchase or were purchased as options.

End-User License Agreement

This End-User License Agreement ("Agreement") is entered into by and between Ultra Electronics Forensic Technology Inc. ("Forensic Technology") and you (either as an individual or as a single legal entity, hereinafter referred to as "Licensee"), for the use of Forensic Technology's Integrated Ballistics Identification System (IBIS®) family of products. These products include computer software, the media on which the software is delivered (if any), printed materials, and "online" or electronic documentation ("Software"). By using all or any component of the Software, you and your employer if you are an individual, agree to be bound by the terms and conditions of this Agreement. If you do not agree to these terms and conditions, do not use the Software.

1. GRANT OF LICENSE

Forensic Technology hereby grants you a perpetual, limited, non-exclusive, nontransferable, royalty-free license to use Software and associated media and printed materials, if any, and any online or electronic documentation relating thereto solely for your internal business operations. This license is revocable in the event of breach of any condition contained herein. All other rights are reserved to Forensic Technology.

2. RESTRICTIONS

The Software is licensed, not sold. Except as expressly provided herein, Licensee may not resell, sublicense, rent, lease, lend, assign or otherwise transfer the Software to a third party. Licensee shall not:

1. reverse engineer, decompile, or disassemble the Software;
2. allow timesharing, service bureau, subscription service, or rental use of any third party software provided with the Software
3. navigate the underlying data schema;
4. access or attempt to access directly any software delivered with the IBIS system other than through the IBIS Software, through prepackaged reports or ad hoc reports that are developed by Forensic Technology.

Licensee further agrees:

1. to prohibit publication of any results of benchmark tests run on third party software provided with the Software;

2. that it will not require the third party or embedded software manufacturers to perform any obligations or incur any liability not previously agreed to between Forensic Technology and such third party or embedded software manufacturer;
3. to permit Forensic Technology to audit the Licensee's use of the Software and report such use to third party or embedded software manufacturers if so required by their license agreements;
4. that a third party or embedded software manufacturer may be designated as a third party beneficiary of this Agreement;
5. if the Licensee is located in the U.S., this transaction excludes the application of the Uniform Computer Information Transactions Act;
6. that Forensic Technology and any third party and/or embedded software manufacturers retain all ownership and intellectual property rights to the programs;
7. that some programs may include source code that a third party embedded software manufacturer may provide as part of its standard shipment of such programs, which source code shall be governed by the terms of this Agreement;
8. that any data transfer will be done through the IBIS software .

The Licensee shall not knowingly transfer, either directly or indirectly, through donation or otherwise, the equipment and/or Software licensed or delivered under the contract, or any product or part thereof, or service which is a direct product of the equipment or software to any party without the prior written consent of Forensic Technology. Such transfer would cause Forensic Technology to be in breach of its licensing agreements with third party software manufacturers.

3. SUPPORT SERVICES

Provided a valid maintenance contract is in force, support services for IBIS® are supplied to Licensee as detailed under such maintenance contract.

4. LIMITED WARRANTY

Forensic Technology warrants that it will make commercially reasonable efforts to solve any problem issues.

5. NO OTHER WARRANTIES

FORENSIC TECHNOLOGY MAKES NO WARRANTY THAT THE SOFTWARE CONTAINS NO DEFECTS OR WILL RUN ERROR FREE. EXCEPT AS MAY BE PROHIBITED BY APPLICABLE LOCAL LAW, FORENSIC TECHNOLOGY DISCLAIMS ALL OTHER WARRANTIES AND CONDITIONS WITH REGARD TO THE SOFTWARE, EITHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, TITLE, NON INFRINGEMENT, AND THE DELIVERY OR THE FAILURE TO DELIVER SUPPORT SERVICES.

6. LIMITATION OF LIABILITY

EXCEPT AS MAY BE PROHIBITED BY APPLICABLE LOCAL LAW, IN NO EVENT SHALL FORENSIC TECHNOLOGY OR ANY THIRD PARTY SOFTWARE MANUFACTURER BE LIABLE FOR ANY SPECIAL, INCIDENTAL, INDIRECT, OR CONSEQUENTIAL DAMAGES

WHATSOEVER (INCLUDING, WITHOUT LIMITATION, DAMAGES FOR LOSS OF BUSINESS PROFITS, BUSINESS INTERRUPTION, LOSS OF BUSINESS INFORMATION, OR ANY OTHER PECUNIARY LOSS) ARISING OUT OF THE USE OF OR INABILITY TO USE THE SOFTWARE OR THE DELIVERY OR FAILURE TO DELIVER SUPPORT SERVICES, EVEN IF FORENSIC TECHNOLOGY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

7. TERM AND TERMINATION.

Unless this Agreement is terminated under the next sentence, the term of this Agreement shall be perpetual. Without prejudice to any other rights it may have, Forensic Technology may terminate this Agreement by giving notice to you in writing or by electronic communication if you materially breach the terms and conditions of this Agreement.

8. GENERAL PROVISIONS

- 8.1 **LAW TO GOVERN.** This Agreement shall be governed by the laws of Canada.
- 8.2 **ASSIGNMENT OF RIGHTS.** You may permanently assign and transfer all of your rights under this Agreement, provided: (i) you transfer to the recipient the Software and this Agreement, (ii) you retain no copies of the Software; and (iii) the recipient agrees to be bound by the terms and conditions of this Agreement. In the event of permanent assignment and transfer of your rights to another party, you must inform Forensic Technology in writing of such an event, and provide Forensic Technology with the appropriate information on such party.
- 8.3 **TITLES AND SUBTITLES.** The titles and subtitles used in this Agreement are used for convenience only and do not constitute a part of this Agreement.
- 8.4 **SEVERABILITY.** If any provision of this Agreement is held to be illegal or unenforceable, that provision shall be limited or eliminated to the minimum extent necessary so that this Agreement shall otherwise remain in full force and effect and enforceable.
- 8.5 **NON-WAIVER.** No failure by Forensic Technology to take action on account of any default by you shall constitute a waiver of any such default or of the performance required.
- 8.6 **ENTIRE AGREEMENT.** This Agreement, together with any additional conditions in the contract under which the Products were procured, is the sole agreement between you and Forensic Technology with respect to the subject matter hereof. This Agreement supersedes all prior agreements or discussions between you and Forensic Technology with respect to the Software.
- 8.7 **MODIFICATION.** Except as otherwise expressly provided herein, any provision of this Agreement may be amended and the observance of any provision of this Agreement may be waived (either generally or any particular instance and either retroactively or prospectively) only with the written consent of you and Forensic Technology.
- 8.8 **COMMERCIAL SOFTWARE LICENSES.** Licensee recognizes that IBIS® uses certain commercial software packages, some of which have been purchased by and licensed to Forensic Technology. By using the IBIS product, Licensee is required to accept the transfer of the license agreements and all related terms and conditions of such software programs. **US GOVERNMENT RESTRICTED RIGHTS:** this computer software is submitted with restricted rights. It may not be used, reproduced, or disclosed by the Government except as provided in paragraph (b)(1) of FAR clause 52.227-14 Commercial Computer Software License (Dec2007) or as otherwise expressly stated in the contract.

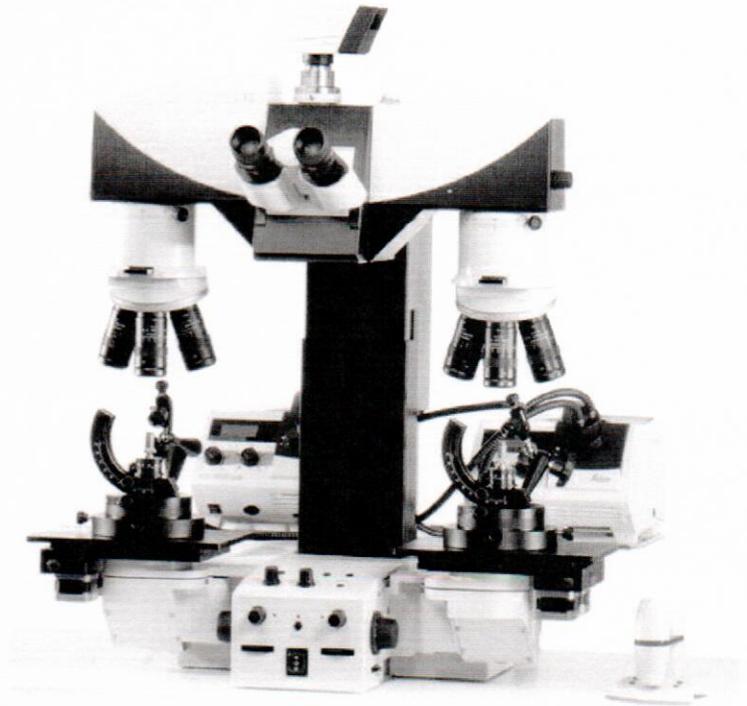
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Motorized Forensic Comparison Macroscope Leica FS C

The modular Leica FS C **motorized comparison macroscope** is used for a wide range of **forensic investigations** including **ballistics, toolmark, and document comparison**. Intelligent Automation combines with outstanding ergonomic design.

The five apochromatically-corrected macro objectives feature a **high numerical aperture** and built-in, adjustable iris diaphragms for top optical performance.

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Bullet Traps and Clearing Stations



Savage Arms has revolutionized the bullet trap industry with their Snail® Systems Bullet Traps. The bullet trap design incorporates low angle ramps that deflect the bullet rather than smashing it, leaving the bullet relatively intact and minimizing lead dust for a safer shooting environment. The bullet is deflected into a circular deceleration chamber where it slowly decelerates until stopping and dropping into a collection bin for optional recycling.

No other bullet trap is as safe or environmentally sound. That's the Savage difference!

Forensic Buddy®

Developed as an efficient, non-destructive method of capturing bullets without the expense, mess and maintenance of water

tanks, the Forensic Buddy meets all of the demands of the forensic community. Extremely compact, economical and designed for single-shot use, either in the lab or as a portable unit, the Forensic Buddy contains a unique ballistic media that carefully collects specimens intact - so you can get a clean, accurate view of Land and Groove impressions.

Forensic Buddy Details

Check-it!™ Series

The Check-it!™ Series bullet traps are designed as a firearms "clearing station," to ensure no live ammunition is present before storing or cleaning a firearm. Each Check-it!™ bullet trap uses Snail® System low angle ramps and circular deceleration chamber to safely capture bullets. The low angle ramps help deflect the bullet into our round deceleration chamber where the bullet loses energy. This series has two space-saving designs and is uniquely engineered for shooters who want to keep a safe environment.

Mini Check-it!™ - handles handguns, shotguns and rifles up to 1400FPE

Tabletop Check-it!™ - handles handguns, shotguns and rifles up to 3000FPE

Freestanding Check-it!™ - handles handguns, shotguns and rifles up to 3000FPE

Gunsmith Series - designed for feed & function testing

These are durable and easy to use stand alone units. The Gunsmith Series bullet traps use Wet Snail®

technology to minimize airborne lead. The low angle ramps help deflect the bullet into our circular deceleration chamber where the bullet loses energy and drops into a collection tray. This uniquely engineered design is ideal for testing the functionality of a myriad of firearms and for anyone who is serious about eliminating an environmental health and safety problem.

GT Tabletop Gunsmith - low volume testing up to 4100FPE

GD Gunsmith - moderate to high volume testing up to 8100FPE

GHD Heavy Duty Gunsmith - high volume feed & function testing up to 13000FPE

Specialty Traps - velocity, accuracy, feed & function testing up to 8100FPE

The Boxtrap Series bullet traps are designed for ballistics labs, firearms manufacturers and military facilities who are serious about eliminating environmental health and safety problems. The Boxtrap Series uses Wet Snail® Technology to minimize airborne lead. The low angle ramps deflect the bullet into our circular deceleration chamber where the bullet loses energy and drops into a collection tray.

The Proof & Function bullet trap, great for manufacturers who are serious about eliminating an environmental health and safety problem, uses Wet Snail® Technology to minimize airborne lead, low angle ramps deflect the bullet into our round deceleration chamber where the bullet loses energy and drops into a collection tray. It has a self-contained lead-recovery tank and impeller pump to recirculate fluid.

R24 / R36 / R48

Proof and Function

Please note for all bullet trap models:

Not for use with steel core or armor piercing ammunition.

Prices are subject to change without notice. Prices are FOB Factory. All shipping prices valid for domestic sales to contiguous USA only. Please contact Savage Range Systems for export shipping rates. Sizes and weights are approximate. As a part of Savage range Systems, Inc. commitment to quality, we reserve the right to change materials and/or specifications without notice.

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