



# Alias

ADVANCED BALLISTICS  
ANALYSIS SYSTEM

You're in the business of saving lives.  
So is ALIAS. A breakthrough law  
enforcement product from Pyramidal  
Technologies, ALIAS accelerates your  
ability to achieve faster convictions on  
firearm crimes.



**PYRAMIDAL**  
TECHNOLOGIES LTD.

Solve more crimes. Convict more  
criminals. Save more lives. Get the  
ALIAS advantage. To learn more  
about ALIAS — the next generation  
in forensic ballistics — please contact  
the Pyramidal Technologies team today.

#### Contact us

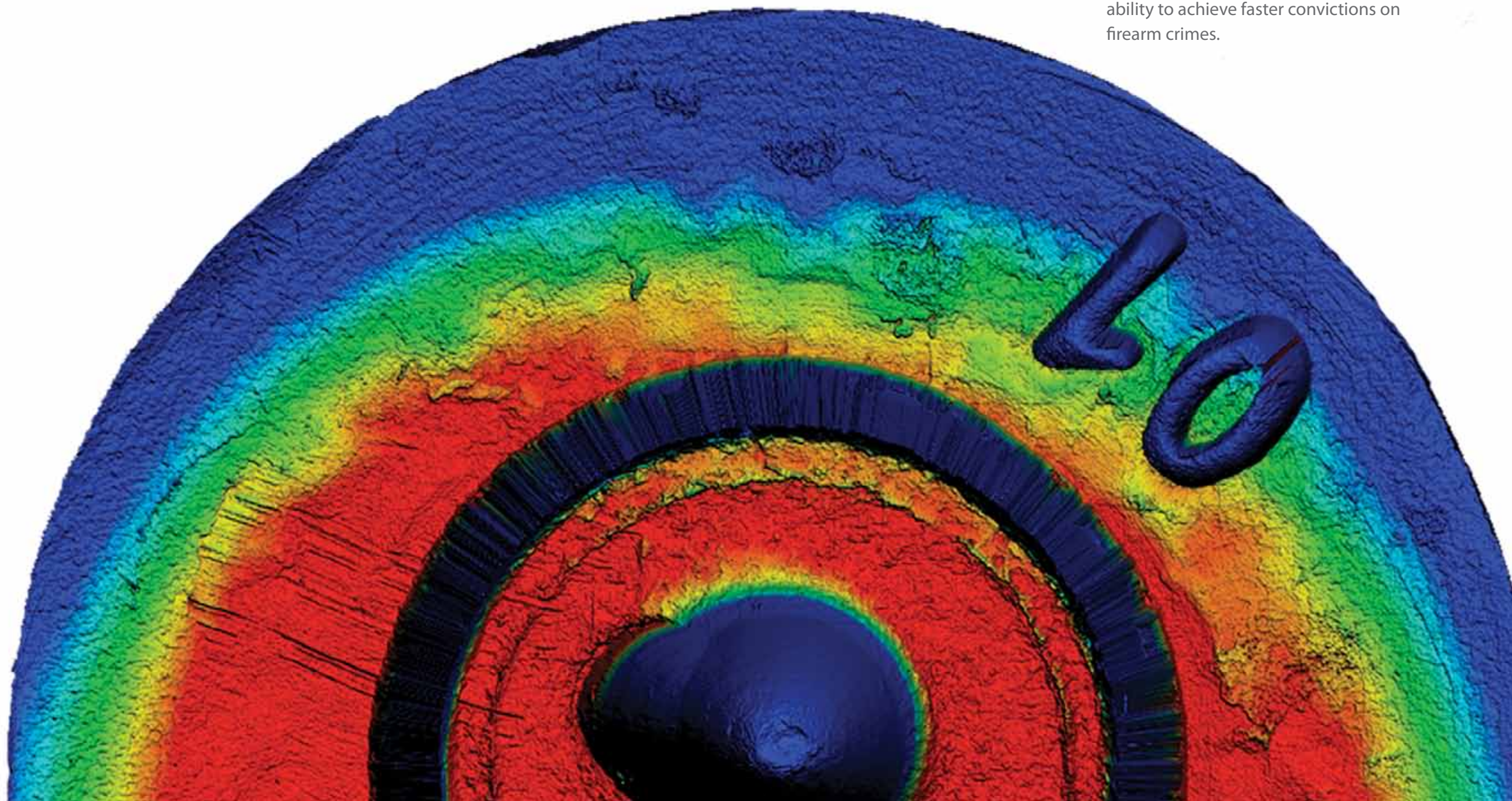
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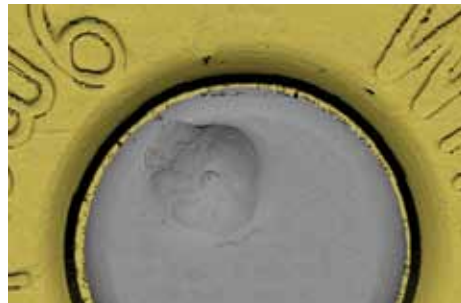


# The next generation in forensic ballistics

In 1929, ballistic identification evidence from a comparison microscope — developed eight years earlier with the U.S. Army's Col. Calvin Goddard — solved the case of the St. Valentine's Day Massacre.

## Barrett continues quest

In 1991, Canadian automated forensic ballistics pioneer Michael Barrett utilized electronic and optical science to digitally compare fired bullets (Bulletproof) followed by cartridge cases (Brasscatcher). These systems came together as the Integrated Ballistics Identification System (IBIS) — a product that has solved thousands of firearm crimes worldwide. In 2007 Barrett decided to continue his quest to help firearms examiners



*ALIAS offers a simplified imaging/correlation/confirmation process*

and technicians achieve more convictions by assembling a team to take ballistics identification to the next level.

## ALIAS – state of the art

The result is the Advanced Ballistics Analysis System (ALIAS). ALIAS is easier and faster to use, featuring a

thoroughly modern hardware, software and database infrastructure. It offers law enforcement agencies true 3D ballistics imaging and correlation at a surprisingly affordable price. In an era where police systems interoperability is paramount to solving firearm crimes that span the globe, ALIAS efficiently exports cartridge and bullet image and case-related demographic data where and when it's needed.

The bottom line is that ALIAS offers a quantum leap in forensic ballistics — a 3D imaging, correlation, visualization and confirmation system that delivers an exponential increase in cartridge and bullet data available for investigation.

agencies with available IT resources, to platinum coverage that includes 24/7 support and two-hour response.

## Easily shared data

ALIAS data is also designed to be shared. ALIAS cartridge and bullet images and case-related demographic data are easily exported to departmental, national or international forensic databases across the hall or around the world.

## Solve crimes faster

ALIAS gives everyone involved in a firearm crime case the confidence they require to proceed to a successful conviction based on unequivocal ballistics evidence.

## Key features

- Advanced interferometry techniques with vastly superior data capture abilities
- “Point-and-shoot” technology that can gather data independent of the orientation of the cartridge or bullet specimen — reducing the potential for operator error
- More accurate interpretation of complex images with 3D topography
- Interoperability with 2D images in current forensic databases

## Micron-level accuracy ensures more convictions

A human hair measures approximately 100 microns wide. ALIAS's 3D cartridge and bullet images are accurate at 2 microns, or 1/50<sup>th</sup> the diameter of a single human hair.

This unsurpassed level of accuracy produces infinitely better results that vastly reduce the time it takes firearms examiners and technicians to complete their analysis.

To save even more time, ALIAS's straightforward three-step (imaging/correlation/confirmation) protocol promotes simple operation, faster learning times, and less margin for error.

## 3-step imaging/correlation/confirmation process

How does ALIAS revolutionize the field of forensic ballistics? Michael Barrett and his partners have assembled a worldwide team of hardware, software and industrial design experts who have re-invented digital ballistics examination.

The revolution starts with superior correlation technology that is compatible with existing 2D cartridge and bullet images. Then ALIAS's Swiss-built, application-specific interferometer uses laser light to scan crime-scene cartridges and fired bullets and add true 3D insight to new ballistic evidence.

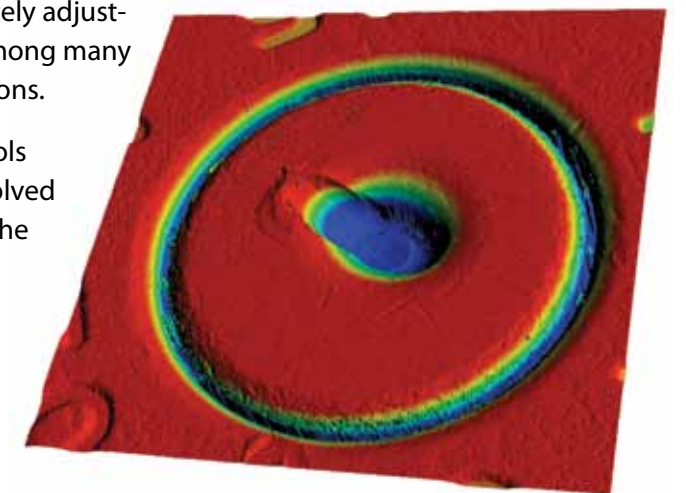
The ALIAS system is protected by 10 patents with additional patents pending or in progress. ALIAS processes interferometer data to build a set of visually rich 3D images that firearms examiners and technicians can analyze with far greater accuracy — taking advantage of topographically sensitive colorization, moveable light sources, and infinitely adjustable axis orientation, among many other unique visualizations.

ALIAS's confirmation tools then give everyone involved in a firearm crime case the confidence they require to request physical evidence that will lead to a conviction.

ALIAS also allows your department to export 3D data to other visualization packages or departmental systems to ensure maximum compatibility with present and future systems in use by law enforcement agencies around the world.

Solve more crimes. Convict more criminals. Save more lives. Get the ALIAS advantage. To learn more about ALIAS — the next generation in forensic ballistics — please visit [www.pyramidaltechnologies.com](http://www.pyramidaltechnologies.com).

*ALIAS offers true 3D correlations and interoperability with existing 2D image systems*



*ALIAS 3D topographic map image*

## ALIAS fast facts

Pyramidal Technologies is rewriting the rules on how firearm convictions are made — with ALIAS.

Created by Michael Barrett, the pioneer who brought IBIS to firearms examiners and technicians in the early 90s, ALIAS leads the next generation in forensic ballistics analysis.

## The next generation

ALIAS builds visually rich 3D cartridge and bullet images, then provides powerful tools to analyze them using topographically sensitive colorization, and adjustable light source and axis orientation.

ALIAS image data is captured by the world's finest Swiss-built,

application-specific interferometer, then processed with a thoroughly modern 64-bit computing and application architecture that rapidly defines 3D data with patented software algorithms.

ALIAS's 3D, micron-level analysis provides previously unheard of accuracy. And a simplified three-step imaging/correlation/confirmation process speeds the time it takes to achieve convictions in firearm crime cases.

## ALIAS price advantage

More than the technology is revolutionary. ALIAS is aggressively priced against competitive offerings. Five annual support cost options range from zero cost for law enforcement