

# CADRE FORENSICS - ANNOUNCEMENT

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**Cadre Forensics** (Chicago, IL), is a provider of 3D Surface Topography scanning hardware and software to the **Federal Bureau of Investigation's (FBI) Firearms/Toolmarks Unit (FTU)**. In May 2017, after completing an internal validation study, the Quantico, Virginia based FBI-FTU went live with the use of the TopMatch system. The FBI-FTU will use the TopMatch system for the analysis of firearms/toolmarks casework.

Cadre's TopMatch-GS 3D system is a leader in 3D scanning and analysis for the firearms and toolmark discipline. Based on the GelSight 3D scanning technology, the TopMatch system requires only minutes to acquire micron-scale surface topographies. The accuracy of the TopMatch measurements is guaranteed through the use of traceable microscale reference standards.

Cadre is the leader in Virtual Microscopy for Firearm Forensics. Virtual Microscopy is the visual examination of a digital 3D microscopic representation of an object. The use of Virtual Microscopy has the potential to greatly enhance the speed and accuracy of remote collaboration. For example, by exchanging digital 3D scan data, two labs can compare evidence cartridge cases without having to physically ship the cartridge cases between the labs. This allows multiple labs to examine the same specimen at the same time and simplifies chain of custody documentation.

Development of the TopMatch system has been presented at more than a dozen research conferences and meetings including the Association of Firearm and Toolmark Examiners meeting in each of 2013, 2014, 2015, 2016, and 2017. Work has been supported in part by grants from NIST and NIJ.

The TopMatch-GS 3D system includes the following additional features:

- Database Search
- Remote Collaboration
- Batch Scanning
- Training
- Cartridge Case Assessment
- Report Generation
- 3D Visualization and image export
- X3P Data Exchange
- Heatmap Visualization Mode
- Blind Verification
- Traceable Measurements
- American Company

For more information about Cadre and the TopMatch system, visit [www.CadreResearch.com](http://www.CadreResearch.com) and [www.CadreForensics.com](http://www.CadreForensics.com)

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