

EQUIPMENT AND PROGRAMMING LIST

Sheriff's Crime Laboratory:

Item: TopMatch-3D High Capacity 3D Scanning and Analysis System

Vendor: Cadre Forensics

Justification:

1. Quality:

TopMatch-3D uses a proprietary gel-pad to eliminate surface reflections on metal surfaces, significantly improving scan resolution. This allows for the capture of fine striated toolmarks that other systems cannot resolve.

2. Efficiency:

It is the only system with automated batch scanning for up to 15 cartridge cases of varying calibers. The included Remote Viewer software enables image access and comparison from any networked workstation, enhancing workflow flexibility and speed.

3. Court Admissibility:

TopMatch-3D is the only system validated by both the FBI and RCMP for virtual comparison microscopy. It has also withstood Daubert challenges in court, ensuring legal reliability and admissibility.

Item: Gas Chromatograph with Mass Spectrometry Detector (GC/MS), equipped with auto-sampler, including essential accessories, instrument control software, and a NIST traceable controlled substances spectral library.

Vendor: Agilent Technologies

Justification: The Crime Laboratory currently operates four Agilent GC/MS instruments, all of which utilize proprietary software designed for multi-user access and integrated data processing. These instruments have consistently delivered accurate and reliable forensic results, making them a critical component of our analytical capabilities. To maintain consistency and operational efficiency, the acquisition of an additional Agilent GC/MS system is essential. The existing instruments and software are already fully integrated into the laboratory's workflow, and maintaining uniformity in instrumentation and data management is vital to ensuring seamless operations and consistent reporting standards.

Item: Laboratory Information Management System (LIMS) Programming

Vendor: Forensic Advantage

Justification: All analytical work conducted by the Crime Laboratory is documented and reported through our Laboratory Information Management System (LIMS). This system also serves as the central repository for evidence photographs, reagent logs, quality assurance test records, and other supporting documentation. Our LIMS is a proprietary product developed by Forensic Advantage.

Due to its proprietary nature, the Crime Laboratory cannot integrate or replace it with another LIMS, nor can the system be supported by a different vendor.

Sheriff's Narcotics Task Force:

Item: Handheld X-ray imaging system, Handheld X-ray backscatter imaging system

Vendor's Name: Viken Detection

Justification for Sole Source:

Viken Detection X-ray and backscatter systems are already in place and used by the Special Investigations Division within the Sheriff's Office. The system has been proven effective and has led to the detection, identification, and prosecution of illegal narcotics traffickers.

The procurement of a different detection system will not allow for seamless integration. A secondary system will require additional training for all affected detectives (at the Sheriff's Office expense) and could lead to the illegal narcotics being missed during a search as detectives become familiar with a secondary system.