

Bid for Virtual Comparison Microscopy (VCM) system for TBI FTIU

1. Brands
 - a. Leeds Evofinder Automated Ballistic Identification system, Cadre TopMatch-3D imaging system, or similar
 - b. TBI must approve all brands and models not listed.
2. High-end workstation and display with appropriate specifications to operate the VCM system
 - a. Multiple cores
 - b. 3GB NVIDIA graphics card or comparable, minimum
 - c. Hard drive capable of storing at least 10,000 sample images
 - d. Minimum 24" 4K monitor
3. Laptop workstation with appropriate specification to operate the companion VCM system in off-site locations
 - a. Multiple cores
 - b. 3GB NVIDIA graphics card or comparable, minimum
 - c. Ability to utilize docking station
4. Operating system on Items 2 and 3 above must run on Windows 10 or newer
5. Required software to view images:
 - a. Ability to appropriately label images
 - b. Ability to manipulate images 360° as needed
 - c. Ability to make notations on images as needed
 - d. Ability for images to be imported/exported among other VCM systems (internal and external, X3P preferred)
 - e. Ability to measure spatial dimensions of features on scanned samples
 - f. Ability to generate, save, and print reports
 - g. Ability to export reports above in e. to a LIMS system as well as other software applications (eg. Excel, Powerpoint)
 - h. Ability to conduct administrative functions concerning user access management, data backup, system logs, etc.
6. Power Source must be standard 120 V outlet if wall plug required; VCM system may receive power through the computer if designed as such.
7. Scan/data collection time – Less than 6 minutes per cartridge case sample on average
8. Ability to scan the primary surfaces of cartridge cases and shotshells (up to at least 12 gauge headstamp diameter, ~21 mm), and bullets
9. Databasing capabilities preferred
 - a. Any and all equipment, hardware, software, and licenses required for databasing must be included with the understanding that licenses may require yearly (or longer) contract terms
10. VCM must have been successfully validated by one (1) or more laboratory systems within the United States and its territories with supporting documentation available (internal data, papers published in peer-reviewed journals, etc.)
11. Any and all consumables, to include any consumables required for acquisition of at least 1000 samples (holders, gels, trays, etc.) must be included
12. Each main system will include a companion system or applicable technology to allow forensic scientists to work offsite.