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LatentMaster Workstation



LatentMaster is a complete advanced electronic latent fingerprint workstation. It has state of the art computers, electronics, and software written specifically for processing latent fingerprints. It uses a specially designed, high sensitivity, solid state video camera with quartz optics to allow consistent sensitivity and sharpness in the IR, UV, and visible spectrums. LatentMaster will allow you to:

- *Detect more latent fingerprints than any other Latent Fingerprint Workstation.*
- *Produce photo quality images across the spectrum, even in the UV spectrum.*
- *Significantly reduce the time required to lift, photograph, and print latent fingerprints to scale.*
- *Use the most powerful latent fingerprint enhancement software on the market.*
- *Automatically document each step of the process for complete traceability, including capture.*
- *Examine evidence in real-time under a broad spectrum from IR to UV using a variety of light sources.*

LatentMaster™ is not just software, but an advanced electronic latent fingerprint workstation which uses state of the art computers and electronics, software written specifically for processing latent fingerprints, and a unique high sensitivity, solid state video camera with all quartz optics. LatentMaster™ is the only system currently on the market which spans the entire spectrum from infrared (1100 nm) to deep ultra-violet (200 nm). LatentMaster™ will detect more latent prints than ANY other electronic video imaging system, will significantly reduce the time required to process latent prints, and will result in more identifiable latent prints as well. LatentMaster™ is by far and away the fastest, most powerful image enhancement system available at any price.

ULTRA VIOLET DETECTION of LATENT FINGERPRINTS

The detection of Latent fingerprints is enhanced by the ability to use a variety of light sources spanning the optical spectrum. LatentMaster™ is the only workstation which has a unique, high sensitivity solid state video camera (not a CCD camera) with all quartz optics that spans the spectrum from infrared (1100 nm) to deep ultra-violet (200 nm). For increased sensitivity, integrated solid state cooling is used to lower the LatentMaster™ camera operating temperature to -10 C°. The camera can see what the human eye cannot, and what the camera sees is displayed on a high resolution computer monitor. In many cases latent fingerprints can be detected and non-destructively lifted without chemical treatment, using ultra-violet absorption, ultra-violet reflection, or fluorescence.

NON CONTACT LIFTING OF LATENT FINGERPRINTS

LatentMaster™ lifts latent fingerprints with the press of a button! Unlike conventional photography, you see displayed on the computer monitor exactly what you will lift so that optimum results are obtained every time. Not only does LatentMaster™ save time (a lot of time!!), but in many cases, a better lift is obtained than can be achieved with photography. Latent fingerprints which can be seen by the eye without treatment, or seen after dusting or chemical treatment, can be immediately and non-destructively lifted. The lifted prints are stored in a database file in the computer for later viewing, image enhancement or hardcopy printout.

FAST DIGITAL IMAGE ENHANCEMENT

Digital image enhancement of latent fingerprints has been accepted in court on numerous occasions, and has been instrumental in the identification, arrest, and conviction of many criminals who would have otherwise not been identified. LatentMaster™ has a comprehensive set of image enhancement processes developed specifically for the enhancement of latent fingerprints, such as Brightness/Contrast, Kernel Filtering, Unsharp Filtering, Histogram Equalization, Fourier Processing, and many more. Most of these processes, including Fourier Processing and kernel filtering, are near real time and interactive - you see the results as you perform the process. LatentMaster™ image processing can, in many cases, produce a clearly identifiable latent fingerprint from a formerly unusable latent fingerprint. To ensure complete traceability and to preserve the chain of evidence, every processing step is recorded in a log file. This file can be Undone and Redone, repeating the processing steps on the original latent print to show exactly what was done and the effect of each process on the latent print.

EASY TO USE SOFTWARE

LatentMaster™ software was developed specifically for fingerprint enhancement by a team of knowledgeable software engineers. This software was designed to be simple to learn and easy to use yet it incorporates the most powerful tools available for the image enhancement of latent fingerprints, such as fully interactive kernel filtering and fully interactive Fourier processing, with a comprehensive set of Fourier Filters.

File handling is simple and automatic. You cannot accidentally overwrite the original latent fingerprint image. A complete log of every processing step is automatically generated - no question in court about what was done. This entire log can be Undone and Redone at any time, repeating the processing on the original latent. Since any process performed can be “Undone” at the click of a mouse, there is no fear of making an unrecoverable error and ruining the previous work. Of course, this powerful software runs in Windows®98/2000/XP.

HARDCOPY

Hardcopy output can be produced by any Windows® compatible printer at any scale, from 1:1 to the full size of the paper. Scaling is internal to the LatentMaster™ software - if a ruler or object of known size is in the image, the exact scale can quickly be set in software. With LatentMaster there is no need to adjust the camera distance to set the scale – a significant time saving feature.

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