



Full Hand and Palm Scanners

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Expert forensic examiners estimate that nearly one third of all latent lifts obtained from actual crime scenes come from parts of the hand other than the fingertips.

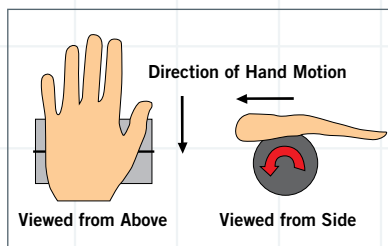
A recent push for sex offender legislation, particularly within the United States, has mandated the capture of offenders' hand or palm prints in addition to fingerprints alone.

L-1 Identity Solutions offers you solution options to capture forensic-quality detail of the full hand to help solve more crimes and easy compliance with sex offender legislation through palm capture. Select from our TouchPrint™ 3800 Full Hand Scanner or TouchPrint™ 4800 Palm Scanner to best meet your needs.

Why Full Hand Capture?

When latents are extracted from a crime scene, latent examiners analyze them and compare them against available databases to find potential matches. Unfortunately, however, if either the latents are from a portion of the hand other than the fingertips or if the database images are too poor quality or do not contain enough detail, this severely limits the effectiveness of law enforcement agencies' abilities to solve crimes.

Enrollment or booking is the first and most critical component in the automated identification process as this is when biometric and demographic data is collected. However, as the saying goes, "garbage in, garbage out". If operators are either untrained, have difficulty working with a complex system or are using a system that does not capture quality images, then the downstream impacts can lead to the degradation of an entire agency's identification database or even systemic failure for crime solving purposes



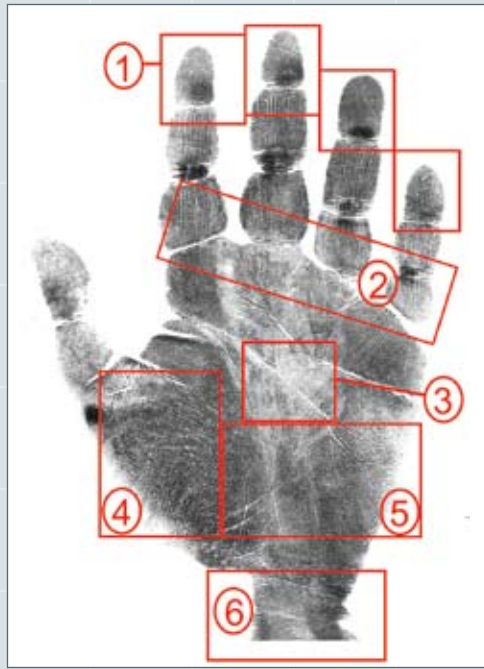
The TouchPrint™ 3800 Full Hand Scanner



Only one fingerprinting system combines an integrated National Institute of Standards and Technology (NIST) Image Quality Standard (IQS) FBI Appendix F certified full hand scanner capable of a splice-free, continuous capture of the whole hand from the carpal crease to the fingerprints.

A unique, curved platen is designed to capture the entire cup or inner portion of the palm which is concave in contour as well as the irregularly shaped finger flanges.

- 1 Fingerprints
- 2 Interdigital
- 3 Cup
- 4 Thenar
- 5 Hypothenar
- 6 Carpal Crease
- 7 Writer's Palm



Actual image of the cup and thenar scanned using the TouchPrint™ Enhanced Definition 3800 Full Hand Scanner captured at 1000 ppi.

Differentiating Between Palm Scanners

A number of flat platen palm scanners have existed in the live scan market for quite some time. However, recent market drivers such as sex offender registration has mandated the need to capture palm prints (in addition to fingerprints), thereby increasing the demand for these types of live scan solutions.

Compliance with this legislation presents a challenge for most law enforcement agencies with an existing investment in live scan technology; they want to prevent a costly upgrade or complete replacement of these systems.

Within most booking stations, space comes at a premium. Therefore, suitable palm scanner solutions must provide robust feature functionality within a minimized size.

The TouchPrint™ 4800 Palm Scanner

Law enforcement agencies require a solution capable of capturing high quality images in compliance with associated legislation, protecting their investment in existing systems and requiring the least amount of space. Luckily, not all palm scanners are created equally, so the choice is easy to make.

The TouchPrint™ 4800 palm scanner is the most innovative live scan available today. Agencies seeking legislation compliance should consider the TouchPrint™ 4800 as the premier, cost-effective option. It has the smallest cubic footprint of any other palm scanner available today. Only the TouchPrint™ 4800 has a single platen design with a large active image area (5" x 5" or 12.7cm x 12.7cm) to capture all types of images including single or multi-fingerprint rolls, slaps, thumbs, palm and writers' edges. An ingress protection rating of IP65

for the enclosure ensures that the TouchPrint™ 4800 is durable to withstand harsh conditions.

The TouchPrint™ 4800 is available as a standalone, tabletop system or within a cabinet as part of a booking station. For law enforcement agencies who want to protect their investments in existing live scan technology, the TouchPrint™ 4800 can be paired with another TouchPrint™ system to add the incremental capture capability of palm prints according to sex offender legislation without throwing away any hardware.



Moisture Discriminating Optics™

Poor quality images resulting from smearing or low-contrast prints may often result when prints are improperly scanned in an effort to process individuals quickly. Perhaps the most challenging, practical issue face by live scan operators is sweaty or greasy fingerprints and hands. Typically, this moisture obscures ridge detail and creates a smudged print.

We offer a patented breakthrough technology to ignore moisture on fingerprints and hands placed on the platen. A special optical arrangement between the light source, the platen and the imager discriminates between moisture and ridge details to avoid deformation. By maintaining skin pore and friction ridge detail and preventing the loss of fine details, our solutions consistently deliver higher quality prints.



Conventional Optics



Moisture Discriminating
Optics™

Moisture Discriminating Optics™ are available on both the TouchPrint™ 3800 Full Hand Scanner and the TouchPrint™ 4800 Palm Scanner.