



TECHNICAL INFORMATION

EZ SCAN Ridge Enhancer

Catalog No. FPT00001



INTRODUCTION

EZ Scan Ridge Enhancer is a chemical solution that, when applied to the fingertips of an individual about to be fingerprinted, causes slight expansion of the fingerprint ridge structure. The result is due to re-hydration (replacement of moisture) of the individual friction ridges, thus permitting more legible recorded fingerprints.

Application	Pretreatment of fingers / palms for improved ridge detail when using live scan devices or conventional fingerprinting methods.	
Hazards/ Safety Info	<u>HMIS</u>	EZ Scan Ridge Enhancer is a non-hazardous, non-flammable, non-toxic formulation—it is safe for use on children and adults. Prior to using this product, refer to the MSDS. <i>Go to www.sirchie.com/support.</i>
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INFORMATION

Due to the activities, vocation or age of a person being fingerprinted, it is often very difficult to get legible prints due to worn, damaged ridges or a lack of hydration of the skin. EZ Scan solution is recommended for use with Live Scan apparatus, fingerprint inks (ink pads or slab and roller methods). Once applied to the fingers, this solution dries in a few seconds and does not deposit any residue on ink surfaces or live scan glass windows. The solution is pre-mixed at the factory and is supplied in ready-to-use condition. EZ Scan utilizes a unique, built-in, soft, porous foam applicator, which eliminates the need for auxiliary equipment such as cotton tipped applicators or cotton balls.

In the example shown here, a 10-print record card was taken using live scan. This card was submitted to AFIS, and AFIS rejected eight of the 10 fingers. Immediately after applying EZ Scan to all 10 fingers, and again recording the prints on live scan (shown on the next page), AFIS accepted all 10 impressions. A fly-out has been given of the right index finger at 100% for both 10-print cards to better show the improvement in ridge detail that was actually achieved (*tested on Live-Scan device*).



Pre EZ SCAN 10-print card of 48 year old female.

Tools/Materials Required:

- A means of recording fingerprints using inks or live scan methods
- Fingerprint record cards and a card holder, or Live scan apparatus

Preparation Instructions:

No advance preparation is required. The solution is premixed at the factory and is ready to use.

Special Note: An important additional use for EZ Scan is its ability to restore desiccated, mummified fingers on cadavers. In cases where finger tips are dehydrated, one or two applications of EZ Scan will restore the ridges enough to permit gaining legible prints. Mummified fingers can be soaked in the EZ Scan solution to restore ridge detail. This process must be monitored until detail appears. Once complete, fingers can be processed through casting or conventional cadaver methods.

APPLICATION

1. Make certain the subject to be printed has clean hands and fingers.
2. Remove plastic cap from the bottle.
3. Lightly press the built-in dauber sponge to the area of the fingers required for nail-to-nail rolled prints.



Post EZ SCAN 10-print card of 48 year old female.

4. Cover each fingertip completely with the solution.
5. Instruct the subject to rub his/her thumbs against the fingers as shown here.
6. Record the fingerprints using normal procedures.

Interpretation Instructions:
Examine the recorded prints for smudges, over or under-inking, etc. and retake prints if necessary.



Daub the area of the subject's fingers required for nail-to-nail rolled prints.



Instruct the subject to rub his/her thumbs against the fingers for best coverage.

Possible Reasons for Poor or No Results:

- Improper fingerprint recording technique
- Low level of ink from ink pad
- Fingertips are badly damaged from vocational causes: bricklayer, roofer, mechanic, etc.

References:

About.Com, "Taking Legible Prints", <<http://crime.about.com/od/police/ss/fingerprints.htm>> August 12, 2010

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Federal Bureau of Investigation, Taking Legible Fingerprints, <<http://www.fbi.gov/hq/cjisd/takingfps.html>>: January 29, 2009