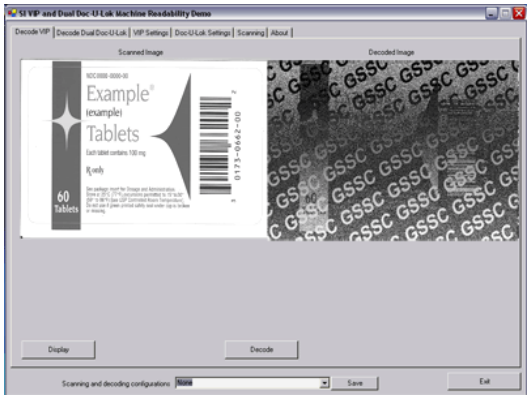
H.W. Sands Corp.

Scrambled Indicia - SI® Embedded Security Technology - TDS

SI® Embedded Security Technology protects billions of printed packages every year. We extend the same level of commitment and service to all of our customers and every product we protect. You can count on consistent quality and seamless, unobtrusive integration into your package design and printing process, regardless of the technology you use: digital, etching, flexography, gravure, holography, intaglio, letterpress, lithography, silkscreen…

"...covert images are embedded into our customer's existing printing stations, without costly taggants, design modifications, or any other significant expenses..."



Passports and ID Cards

Pharmaceutical Labels

Scrambled Indicia® Technology

Encoding Technologies:

SI® Static Encoding: A technology layer dedicated to anti-counterfeiting protection.

Static SI®: Scrambling covert static information and artwork during digital pre-press design stage. Beyond its use as a security feature in printed material it can also be adapted to other manufacturing processes such as metal or glass etching and plastic molding.

Stealth SI®: An anti-counterfeiting protection, invisible to the human eye and high-tech scanners. Compatible with all printing processes. Requires no special inks or taggants. Detectable only by proprietary software.

SI® Holographics and Foils: An anti-scanning protection developed to layer an additional level of security into holograms by encoding Scrambled Indicia within them, making them less likely to be compromised.

SI® Variable Encoding: A technology layer dedicated to anti-tampering protection.

SI® VIPhoto™: Software that embeds hidden images and information in driver licenses or passports at the point of printing. The hidden information in the document is directly linked to the visual data printed on the document.

SI® Doc-U-Lok™: Software that embeds hidden images and information in a document to protect it from the alteration at the point of printing or the creation of the digital document. The hidden information in the document is directly linked to the visual data printed on the document.

Decoding Technologies:

SI® Optical Decoding: Hidden information can be read easily in the field with a simple hand held plastic decoder requiring no power or batteries.

SI® Optical Decoder: Rigid or flexible plastic decoders.

SI® Digital Decoding: Software authentication of packaging and documents protected by Scrambled Indicia® technology.

SI® Digital Decoder™: Using this software module, inspectors/officers can scan the packages or documents and immediately see the decoded images. This application is used solely for on-the-spot inspections.

SI® Web Decoder™: Dedicated web site or web service where subscribed customers could log on to supply their images for authentication purposes, or review selected authentication records; counterfeiting or tampering detection made easy from all parts of the globe.

SI® Email Decoder™: Capture an image using PDA, digital camera or even a cell phone with a camera and send it by email to authenticate the product or document.

SI® Mobile Decoder™: On-site image capturing and decoding using PDA or palmtop computer.

QC Applications:

SI® Quality Control Software: Track and monitor system for print suppliers designed to assure that their SI encoded products and document are printed properly.

Custom Built Systems:

SI® Interop and Integration: MS Office, Document Issuance Systems, ePassport Readers, Image Capturing Devices, and other Custom Solutions.

SI® Technology Chart