Who We Are

Graphic Security Systems Corporation

H.W. Sands Corp. is an authorized partner/distributor for GSSC SI® Security products and services. GSSC has provided its patented security technology to government-authorized security printing firms and major corporations for more than thirty years. SI® was patented in 1977 with GSSC founded in 1981.

What We Do

Graphic Security Systems Corporation

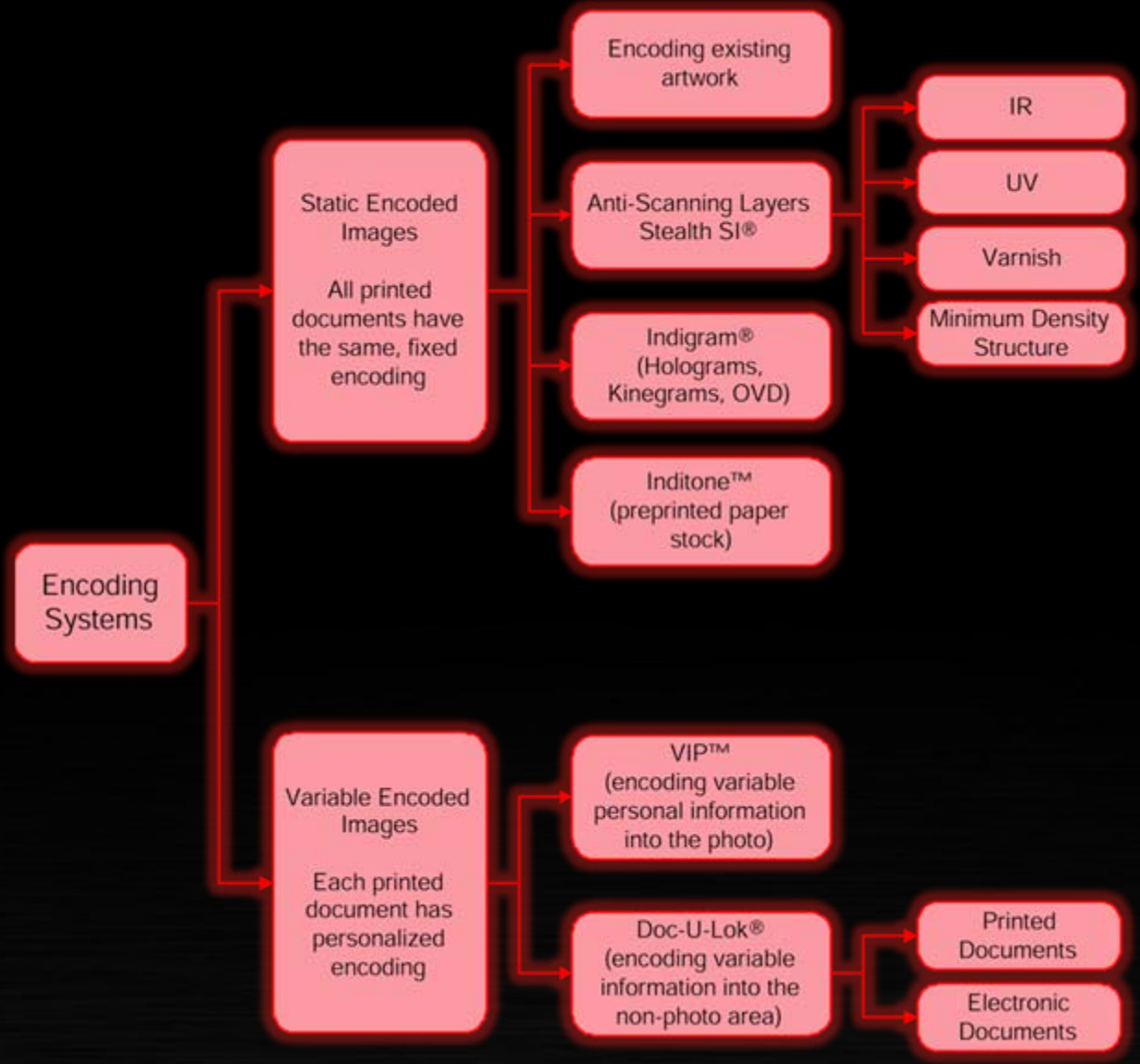
Our technology protects billions of printed packages and documents every year.

Thanks to the H.W. Sands Corp. alliance with GSSC, we can now offer consistent quality and seamless, unobtrusive integration into your product or package design and production process.

When printing SI®, integration can generally be done regardless of the technology you use: digital, thermal, etching, flexography, gravure, holography, intaglio, letterpress, lithography, silk screen, dye-sub, etc. Additionally, SI® can also be etched, engraved, embossed and stamped in many substrates, including: paper, metal, plastic & leather.

Encoding System

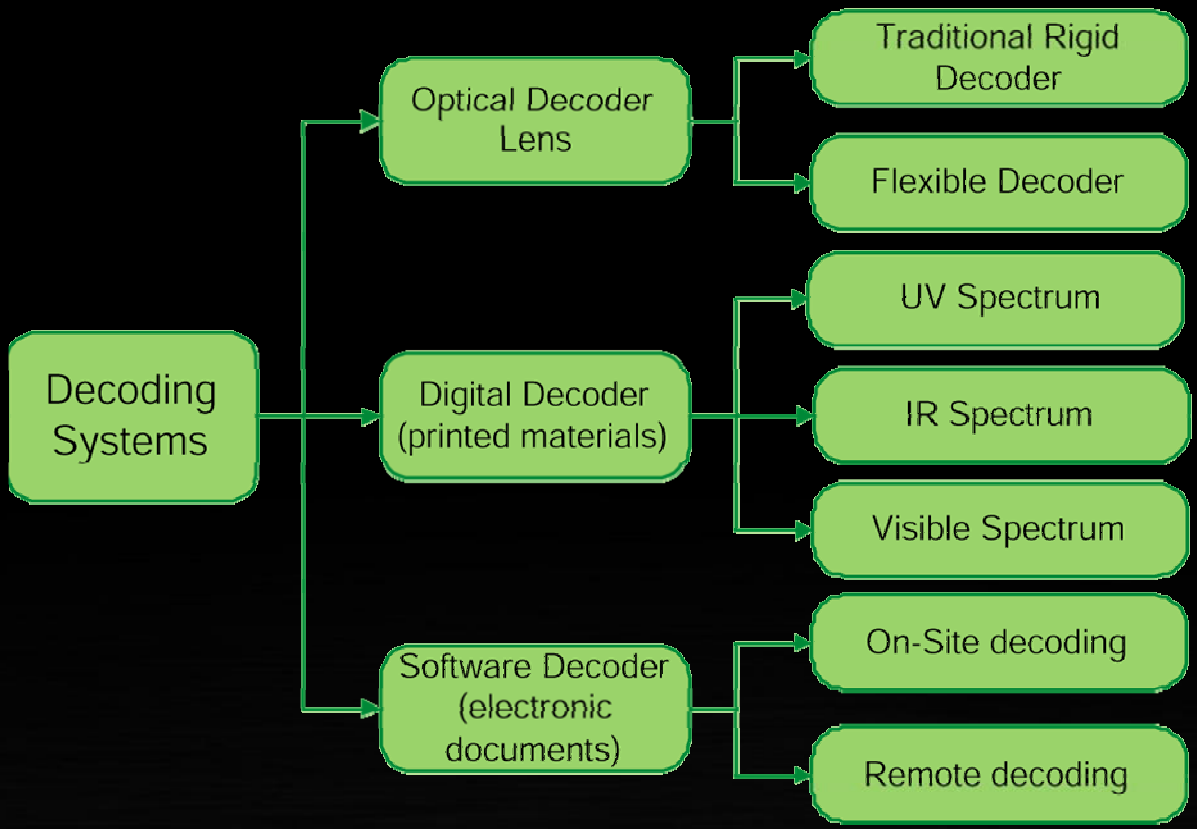
Graphic Security Systems Corporation



www.hwsands.com

Decoding System

Graphic Security Systems Corporation



Compatible Printing Processes

Graphic Security Systems Corporation

…and much more!

Doc-U-Lok

What It Does

Doc-U-Lok®

Digital Document Security

Doc-U-Lok® is a Scrambled Indicia® based technology designed specifically to protect "one of a kind" documents. Doc-U-Lok® software generates a personalized image file, which contains encrypted variable information (client name, account number, document ID, etc.) that uniquely identifies the document. The file is inserted into the document prior to printing and then printed with it.

www.hwsands.com

What It Does (cont.)

Doc-U-Lok®

Safe & Secure Encoding

Invisible to the naked eye.

Cannot be copied or cannibalized.

Trouble-Free Authentication

Easily reveal differences.

Can be decoded optically or digitally.

How It Works

Doc-U-Lok®

NAME: Emanuel VITTO — ☐ Petitioner ☒ Beneficiary — ☐ Applicant ☐
ADDRESS (Apt. No.) (Number & Street): 3456 Sample Road — (City): Boca Raton — (State): FL — (ZIP Code): 33463

NAME: M Software Corp — ☒ Petitioner ☐ Beneficiary — ☐ Applicant ☐
ADDRESS (Apt. No.) (Number & Street): 2345 Jog Road — (City): Delray Beach — (State): FL — (ZIP Code): 33434

Check applicable Item(s) below:

☒ 1. I am an attorney and a member in good standing of the bar of the Supreme Court of the United States or of the highest court of the following State, territory, insular possession, or District of Columbia
Florida — Supreme Court (Name of Court) and am not under a court or administrative agency order suspending, enjoining, restraining, disbarring, or otherwise restricting me in practicing law.

☐ 2. I am an accredited representative of the following named religious, charitable, social service, or similar organization established in the United States and which is so recognized by the Board:

☐ 3. I am associated with _____, the attorney of record who previously filed a notice of appearance in this case and my appearance is at his request.

☐ 4. Others (Explain fully.)

SIGNATURE

COMPLETE ADDRESS
J. Smith Law Offices
2340 Sample Street
Lake Worth, FL33444

NAME (Type or Print): John Smith

TELEPHONE NUMBER: 561-234-3456

PURSUANT TO THE PRIVACY ACT OF 1974, I HEREBY CONSENT TO THE DISCLOSURE TO THE FOLLOWING NAMED ATTORNEY OR REPRESENTATIVE OF ANY RECORD PERTAINING TO ME WHICH APPEARS IN ANY IMMIGRATION AND NATURALIZATION SERVICE SYSTEM OF RECORDS: _____ (Name of Attorney or Representative)

THE ABOVE DISCLOSURE IS IN CONNECTION WITH THE FOLLOWING MATTER:
Application for Alien Employment Certification

NAME OF PERSON CONSENTING	SIGNATURE OF PERSON CONSENTING	DATE
Wilfred Smith		02-05-2004

(NOTE: Execution of this box is required under the Privacy Act of 1974 where the person being represented is a citizen of the Un[illegible] alien lawfully admitted for permanent residence.)

Form G-28
(Rev. 10-25-79)N

(OVER)

DECODER GSSC

Emanuel Vitto
3456 Sample Road, Boca Raton

MADE IN USA © 1975, 1998 GSSC - SCRAMBLED PRINTS ®

Prevents…

- ✓Tampering with variable data in document
- ✓Fraudulent alteration of electronic documents
- ✓Unauthorized printing of electronic documents
- ✓Tracking the document/label origination

Contracts, checks, mortgage coupons, payment receipts, identity documents, birth certificates, tax receipts, hazmat trip permits, labels…

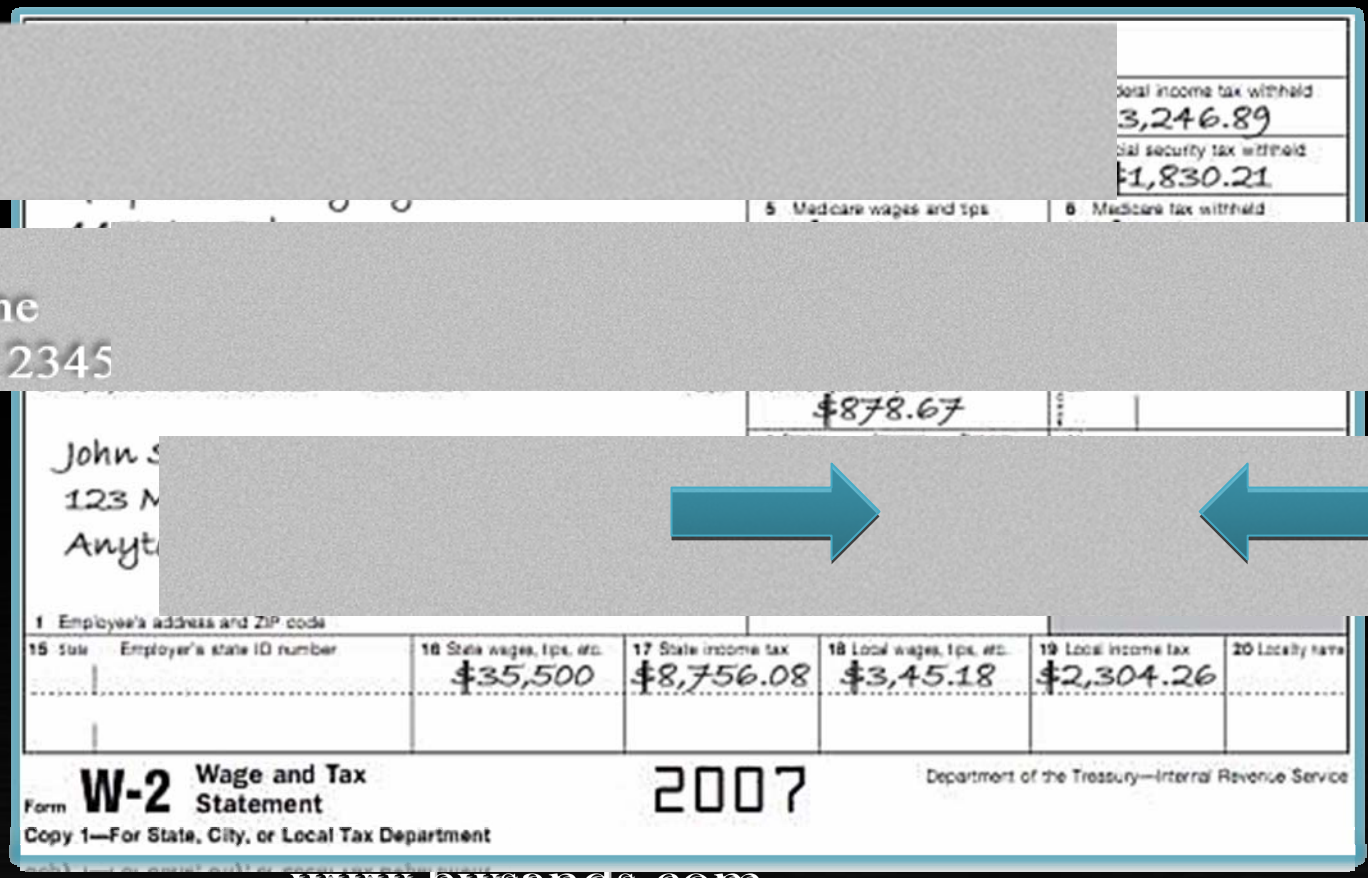
Doc-U-Lok ® Strip

How It Works

Doc-U-Lok®

Variable data from document is encrypted in a Doc-U-Lok® strip.

Anti-tamper static data is encrypted at a different angle in the same Doc-U-Lok® strip.

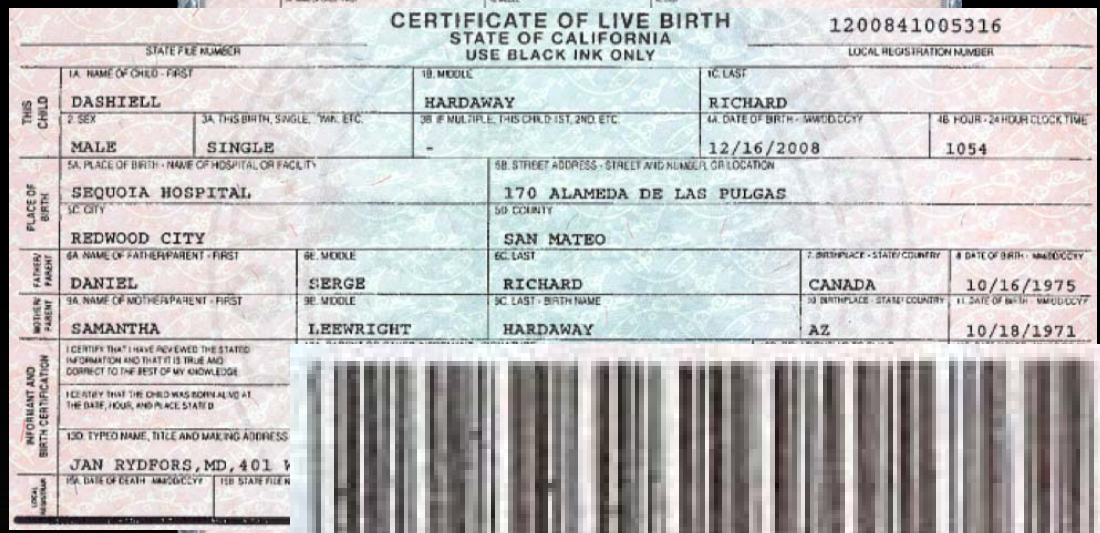


How It Works

Doc-U-Lok®

Document contains Doc-U-Lok strip encrypted with data that matches the document.

Other information on the document, such as a barcode or serial number can also be protected.



Dashiell Hardaway Richard
12/16/2008
Male | Single

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VIPhoto
TM

What It Does

VIPhoto™

Our proprietary software embeds hidden images and information in photo identification documents. The hidden information in the document is directly linked to the visual data printed on the document.

The only security feature that protects against all forms of document fraud:

- **Counterfeiting**
- **Alteration**
- **Photo Substitution**
- **Cannibalization**

***Does not affect facial recognition software.**

How It Works

VIPhoto™

Variable data is revealed in photo and compared to data on card.

Static "VALID" message is revealed in hologram.

Static logo and name are revealed throughout the card.

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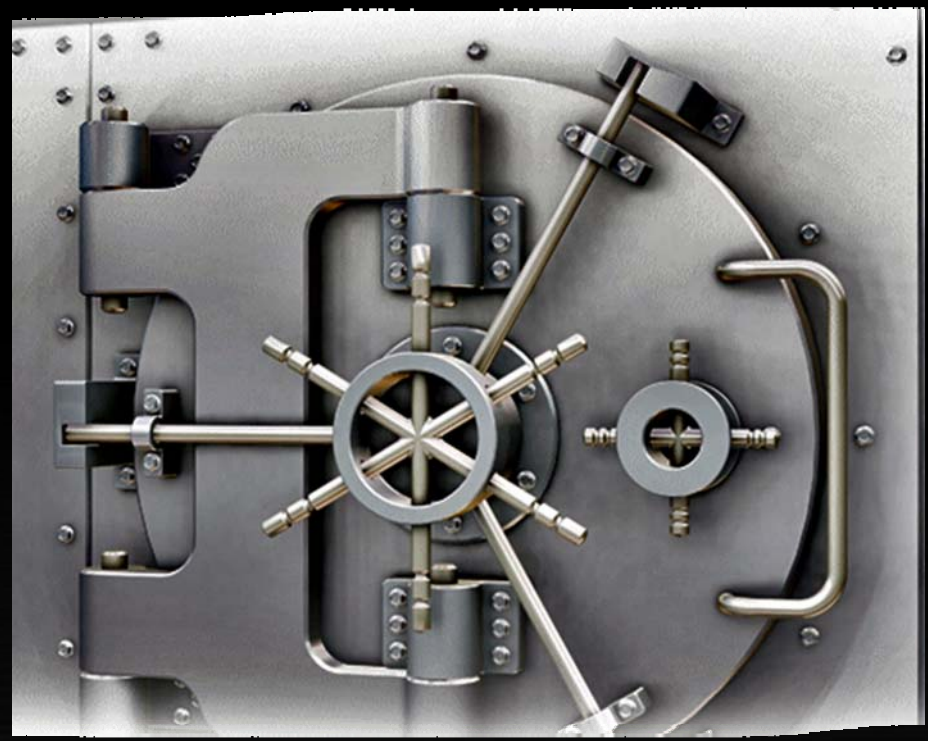
STEALTH SI™

What It Does

STEALTHSI™

Seamlessly integrated product and packaging security.

- Can be layered with overt identifiers such as color-shifting ink and holograms.
- Won't affect existing graphics.
- Can be etched, stamped or embossed in metal , plastic and paper.
- Easily decoded optically or digitally.
- Special inks such as UV, IR, varnish, etc.
- Tamper-proof and copy-resistant.



What Is MDS

STEALTH SI™

Minimum Density Structure

- **Special version of Scrambled Indicia that can be printed using a very low density image (3% - 7%).**
- **Can be printed in combination of carbon and non-carbon inks to make it completely hidden.**
- **Can be printed using other security inks (UV, near IR, custom frequency, etc.)**
- **Can be decoded by using SI Lens, IR scanner and SI Digital Decoding Software or iDetector.**
- **Extremely resistant to counterfeiting due to the covert nature of IR and low density of indicia.**

How It Works

Multi-layered SI allows for additional data to be encrypted at other angles.

Place optical decoder over nameplate to reveal encrypted SI data.

www.hwsands.com

How It Works

STEALTH SI™

Multi-layered SI allows for additional data to be encrypted at other angles.

How It Works (cont.)

STEALTH SI™

Durable, easily-integrated security label with SI.

Printed, engraved, embossed or laser etched SI nameplate.

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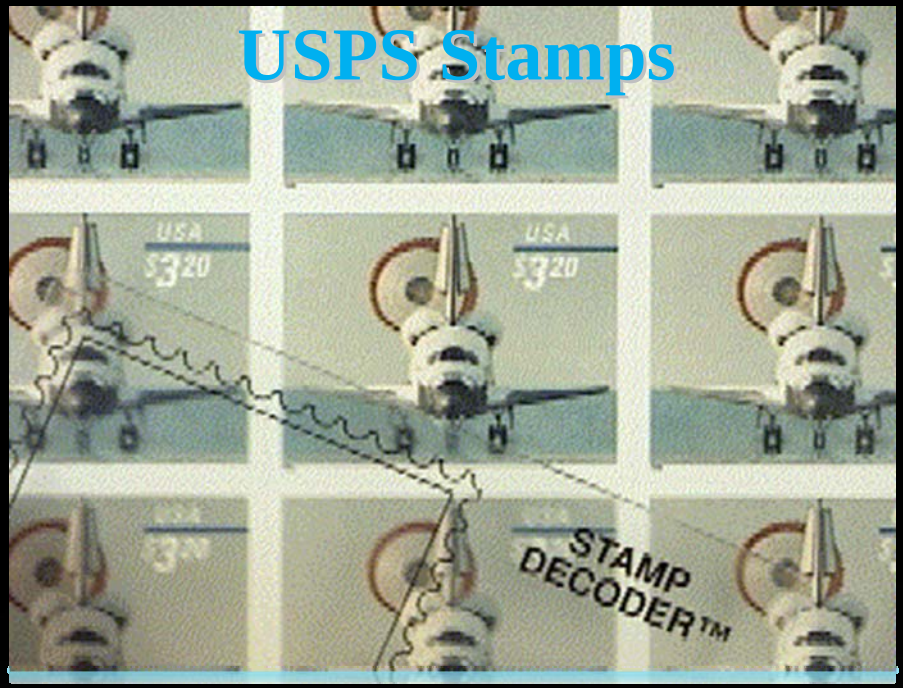
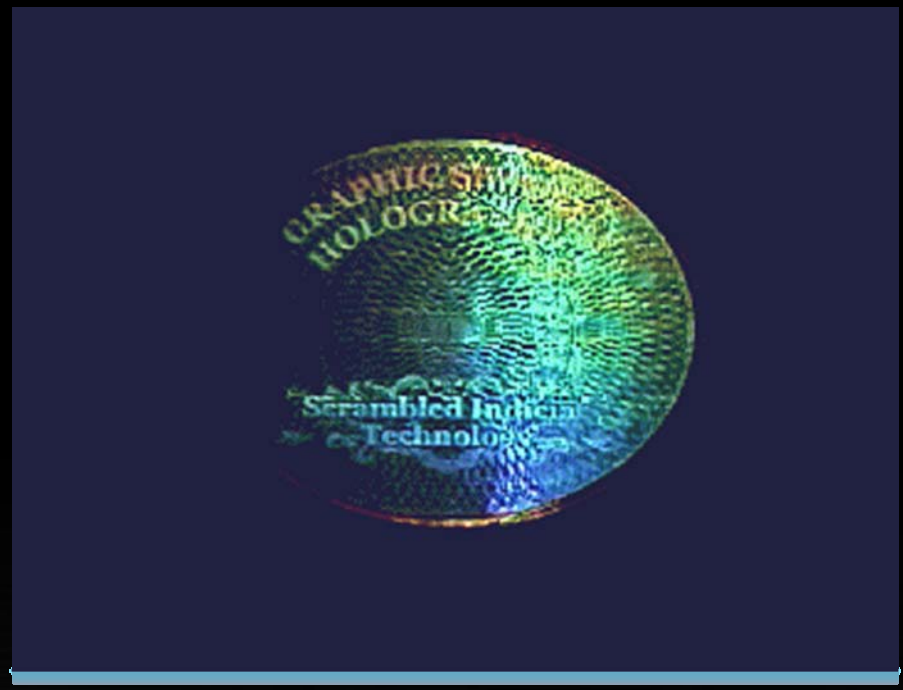
SI® Examples

STEALTHSI™

USPS Stamps



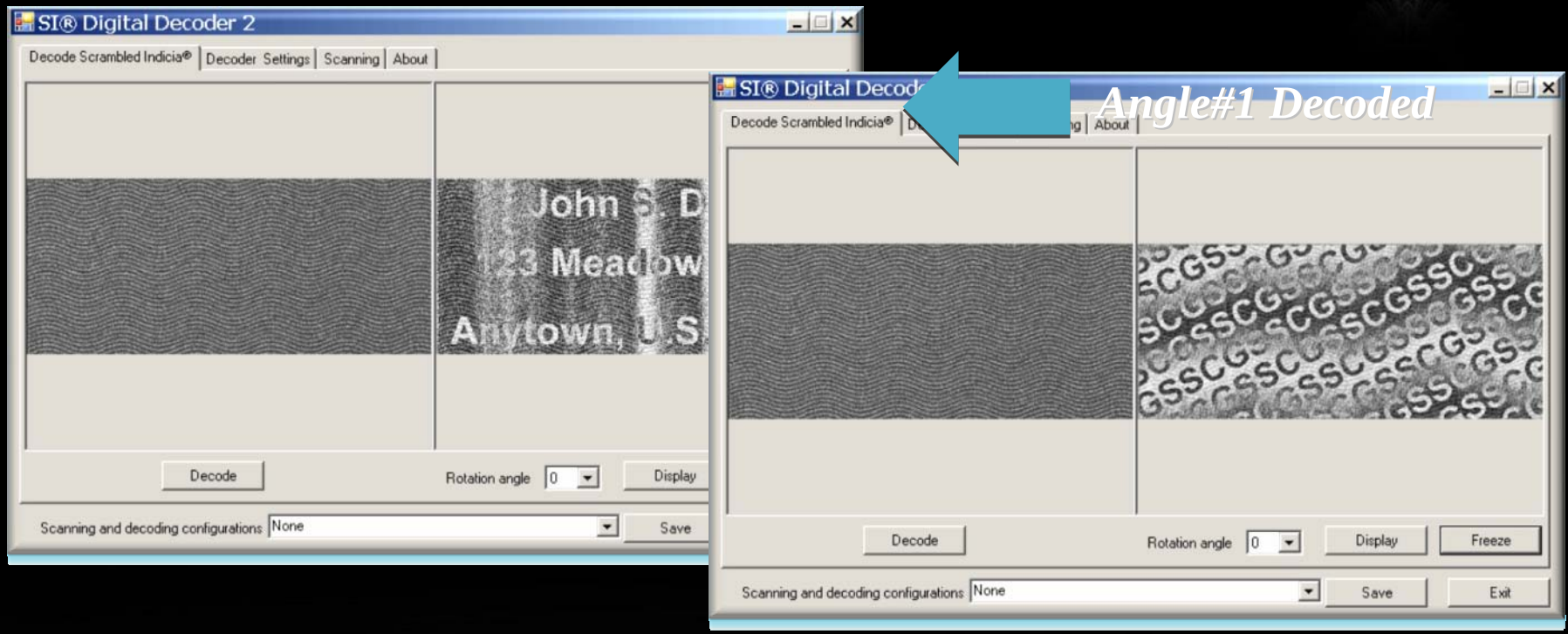
Holograms



www.hwsands.com

Digital Decoding

Graphic Security Systems Corporation



Angle#2 Decoded

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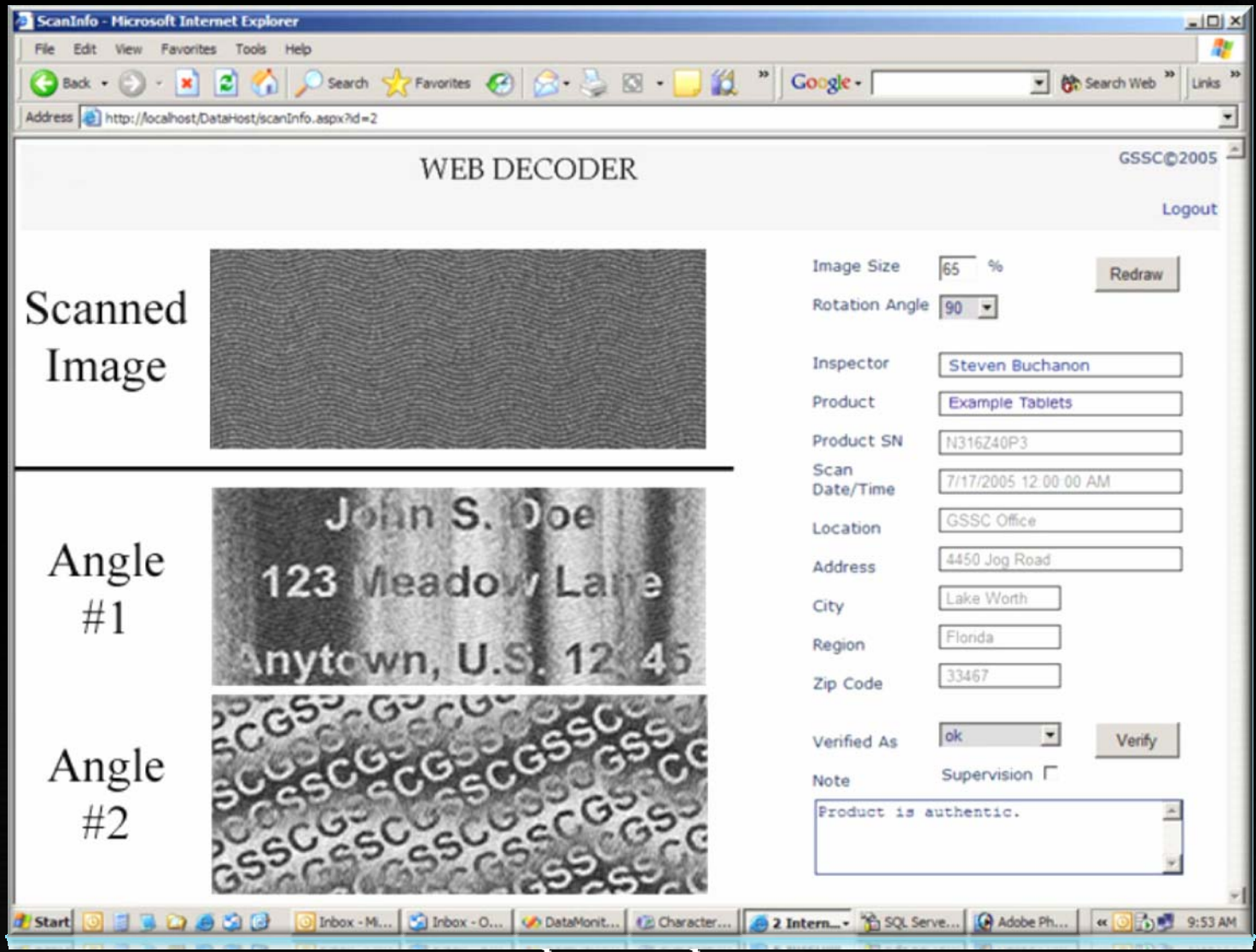
Web Decoding

Graphic Security Systems Corporation



Some Success Stories...

Graphic Security Systems Corporation

Below is a list of some of our clients for your reference:

- United States Postal Service
- U.S. Passport
- New York City Welfare Stamps
- General Motors, Chrysler & Toyota automobiles
- Gift Certificates for Macy's & Boots, etc.
- Belgium Passport
- Lotteries in Costa Rica, Honduras, Guatemala
- Hong Kong Passport
- Zaire Passport
- Currencies of Uruguay, Oman and others
- Transportation Passes for multiple countries
- Tariff Stamps for multiple countries
- Hang Tags for numerous designer clothing companies
- Pharmaceutical packaging
- Land certificates
- Birth certificates
- Shipping documents

**Due to the nature of our business and the non-disclosure agreements we abide by, we can only provide document protection type clients. In the brand protection area, it is important to keep a tight lip when current client discussions arise. Brand owners invest a lot of time, energy and money into protecting their intellectual property and we need to help them keep the technology used in their products under the radar. In the case of most document protection projects, we are typically in an open-bid environment and it is public knowledge who is offering what.*

iDetector®

What It Does

iDetector®

- World's first compact portable forensic lab, available anytime & anywhere
- 3 in 1 device. Standard Digital Camera & and a High Power Microscope and UV LED
- Built in Adjustable LED Lighting
- High Resolution 6 mega-pixel Canon Camera
- 10x, 20x and 30x objective lenses available giving a magnification range of 10x to 150x
- Cost Effective Offering with Powerful Functions
- Instant on-site authentication
- Excellent decoding
- Independent Light Source
- No need for a PPC removal
- On-site quality control of printed encoded images
- Enables usage of a non existing optical frequencies and Minimum Density Structure Infra-Red option

www.hwsands.com

How It Works

iDetector®

Digital

Mobile

www.hwsands.com

Coming Soon...

iDetector®

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Security Technologies Comparison

Graphic Security Systems Corporation

	Security Level	Covert Level	Variable Information	Printing Process Change	Ease of Integration	Availability	Authentication Process	Cost
GSSC Scrambled Indicia	★★★	★★★★	★★★★	★★★★	★★★★	Proprietary	Optical Web-Based Digital/ Mobile	$$
Special Inks (UV, OVI, Thermal)	★★	★★★	★★★	★★	★★	Available	Optical	$ - $$
Holograms	★★	★	-	★	★★	Widely Available	Optical	$$$
Security Fibers and Threads	★★	★★	-	★	★★	Available	Optical	$$$
Digital Watermarks	★★★	★★★	★★★	★★	★	Proprietary	Digital Web-Based	$$$
Microtext	★	★★	★★	★★★	★★★	Widely Available	Optical	$
Taggants	★★	★★	-	★	★	Available	Digital	$$$
Micro-Taggants	★★★★	★★★★	-	★	★	Available	Forensic L-III	$$$$