

Who We Are



Graphic Security Systems Corporation
αὐτὴν ἰσχυρὰ ἄστυγος ἑταιρεία

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.



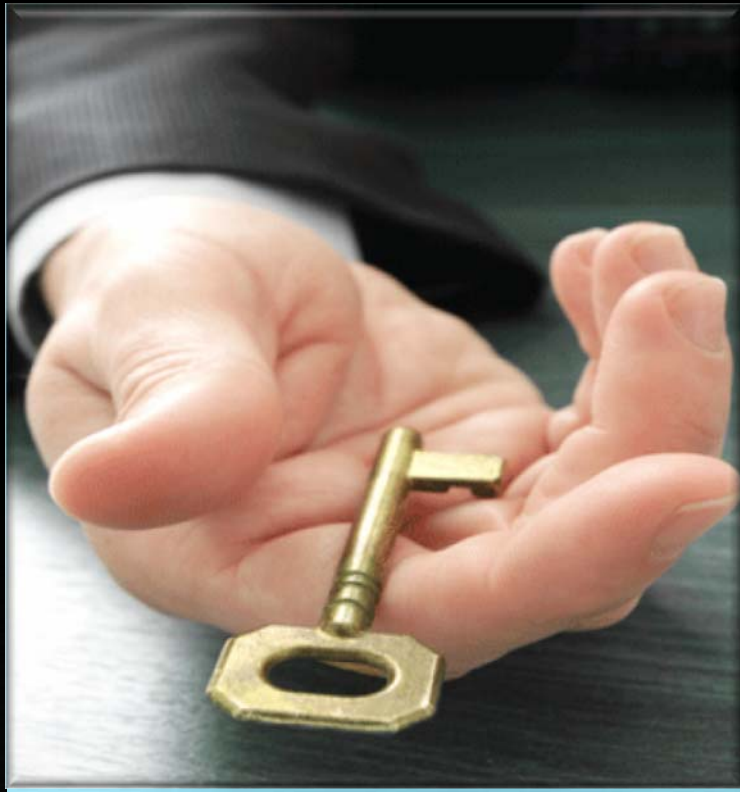
www.hwsands.com

What We Do



Graphic Security Systems Corporation
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.

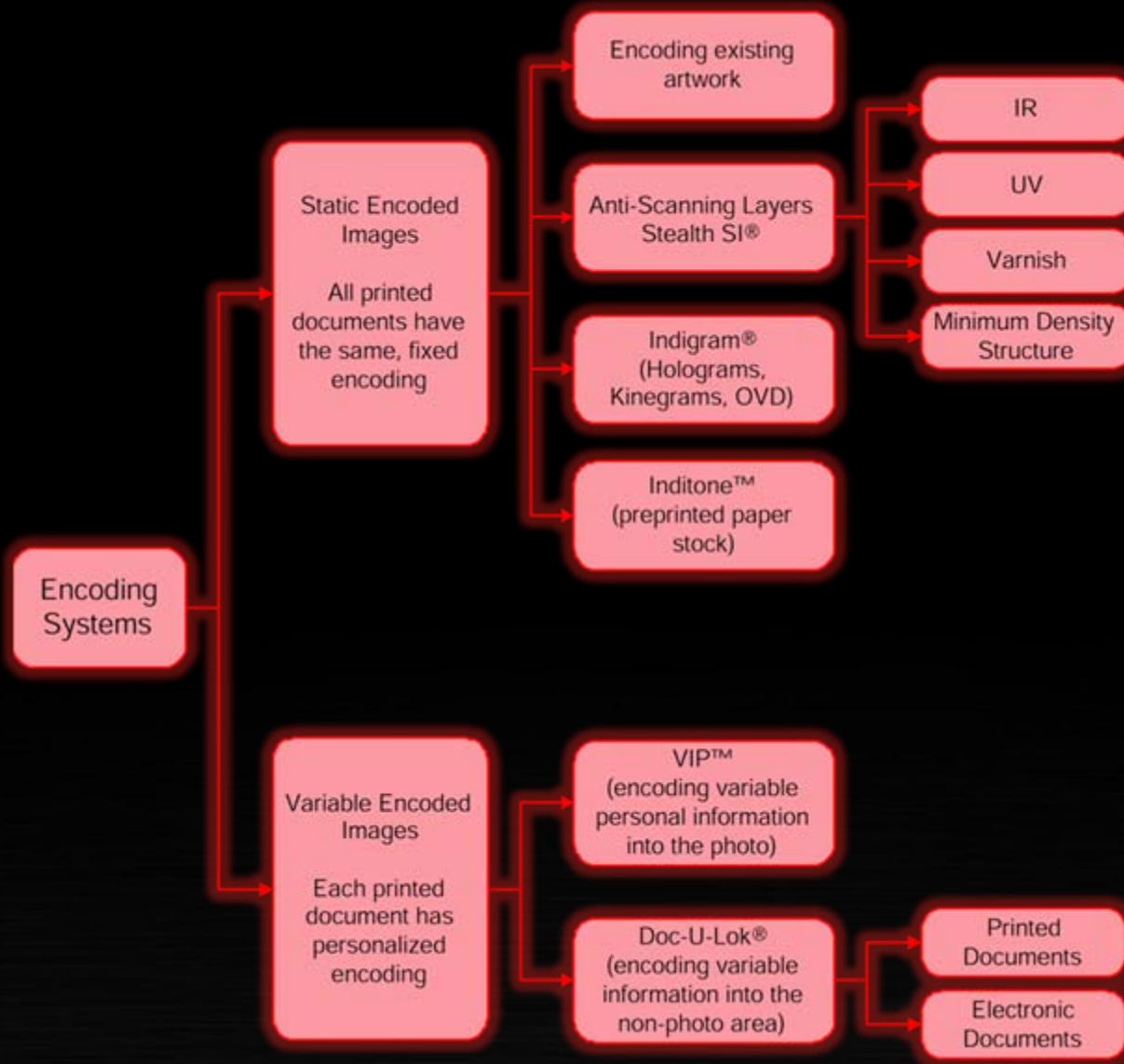
When printing SI®, integration can generally be done regardless of the technology you use: digital, thermal, etching, flexography, gravure, holography, intaglio, letterpress, lithography, silk screen, dye-sub, etc.

Additionally, SI® can also be etched, engraved, embossed and stamped in many substrates, including: paper, metal, plastic & leather.

Encoding System



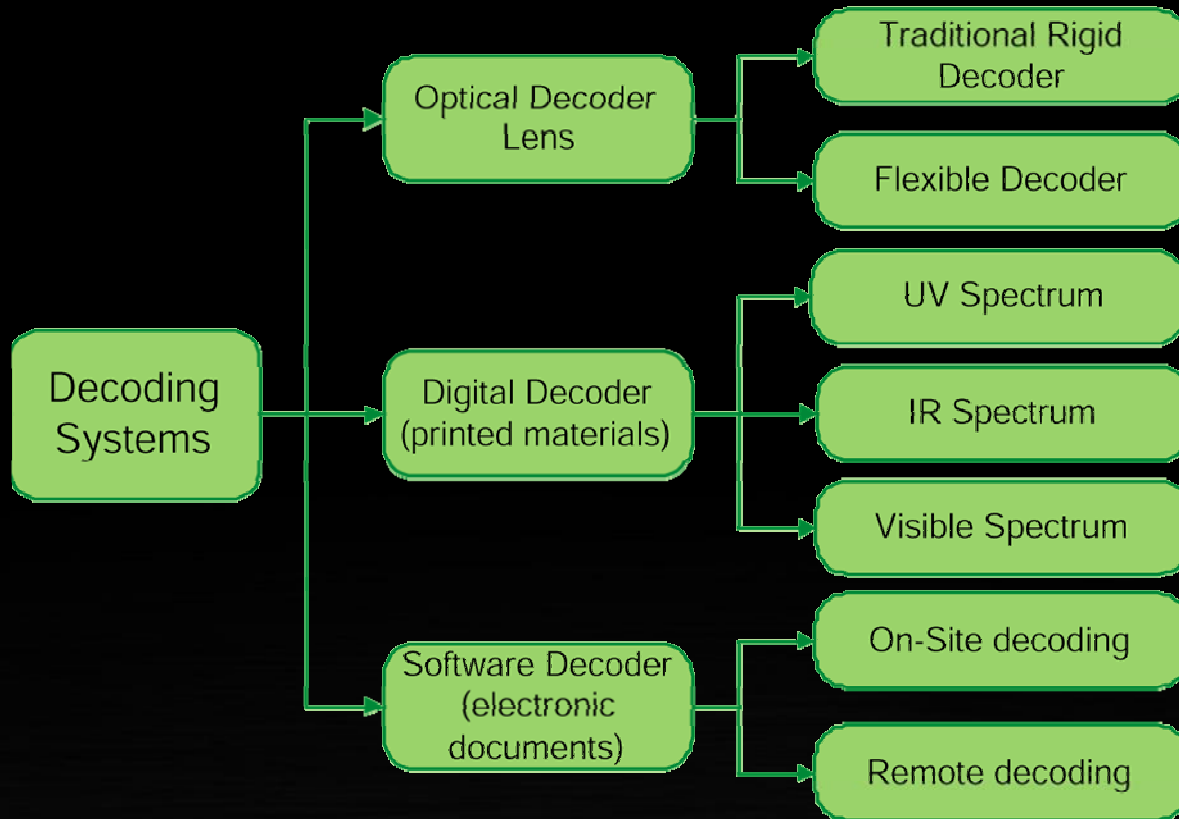
Graphic Security Systems Corporation
Graphic Security Systems Corporation



Decoding System



Graphic Security Systems Corporation
Графическа Система Корпорация



Compatible Printing Processes



Graphic Security Systems Corporation
Γραφική Ασφάλεια Συστημάτων

MARKANDY

SHINOHARA
1919

Sakurai

KOMORI
AMERICA CORPORATION

SOLNA

BOBST

RYOBI

ROTOMECH

TOPPAN
INTERNATIONAL

hp
invent

Eltron

HEIDELBERG

Canon

ATLANTEK

Champlain

DILETTA
ID-SYSTEMS

OKI

Zebra

EPSON

HAMADA

FARGO

LEXMARK

THE DOCUMENT COMPANY
XEROX

...and much more!

www.hwsands.com

Doc-U-Lok  [®]

DOC-U-LOK  [®]

What It Does



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.



What It Does (cont.)



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



NAME Emanuel VITTO		<input type="checkbox"/> Petitioner <input checked="" type="checkbox"/> Beneficiary	<input type="checkbox"/> Applicant
ADDRESS (Apt. No.) 3456 Sample Road	(Number & Street)	(City) Boca Raton	(State) (ZIP Code) FL 33463
NAME M Software Corp		<input checked="" type="checkbox"/> Petitioner <input type="checkbox"/> Beneficiary	<input type="checkbox"/> Applicant
ADDRESS (Apt. No.) 2345 Jog Road	(Number & Street)	(City) Delray Beach	(State) (ZIP Code) FL 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** and am not under a court or administrative agency order suspending, enjoining, restraining, disbaring, 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 Wilfred Smith	SIGNATURE OF PERSON CONSENTING	DATE 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 United States who has lawfully acquired permanent residence.)

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

EMANUEL VITTO
3456 Sample Road, Boca Raton

MADE IN USA © 1975-1998 GSSC - DEBAMBLER PENDING

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



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.

John S. Doe
123 Meadow Lane
Anytown, USA 12345

[Redacted]				Total income tax withheld 3,246.89	
[Redacted]				Social security tax withheld 1,830.21	
[Redacted]				5 Medicare wages and tips	6 Medicare tax withheld
[Redacted]				\$878.67	
John S. 123 M Anyt					
1 Employee's address and ZIP code					
15 State	Employer's state ID number	16 State wages, tips, etc. \$35,500	17 State income tax \$8,756.08	18 Local wages, tips, etc. \$3,45.18	19 Local income tax \$2,304.26
Form W-2 Wage and Tax Statement		2007		Department of the Treasury—Internal Revenue Service	
Copy 1—For State, City, or Local Tax Department					

How It Works

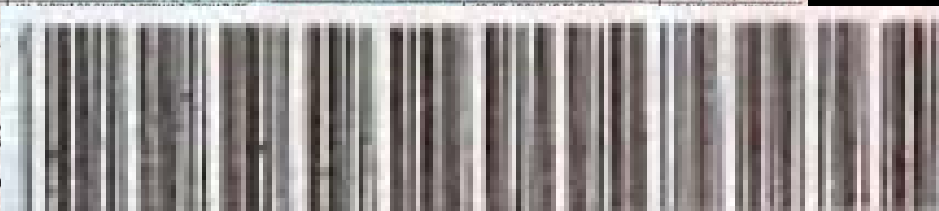


*Document contains
Doc-U-Lok strip
encrypted with data
that matches the
document.*

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



STATE FILE NUMBER		LOCAL REGISTRATION NUMBER	
1A. NAME OF CHILD - FIRST DASHIELL		1B. MIDDLE HARDAWAY	1C. LAST RICHARD
2. SEX MALE	3A. THIS BIRTH, SINGLE, "MAR. ETC." SINGLE	3B. # MULTIPLE, THIS CHILD 1ST, 2ND, ETC. -	4A. DATE OF BIRTH - MM/DD/YYYY 12/16/2008
5A. PLACE OF BIRTH - NAME OF HOSPITAL OR FACILITY SEQUOIA HOSPITAL		5B. STREET ADDRESS - STREET AND NUMBER OR LOCATION 170 ALAMEDA DE LAS PULGAS	
5C. CITY REDWOOD CITY		5D. COUNTY SAN MATEO	
6A. NAME OF FATHER/PARENT - FIRST DANIEL	6B. MIDDLE SERGE	6C. LAST RICHARD	7. BIRTHPLACE - STATE/COUNTRY CANADA
8A. NAME OF MOTHER/PARENT - FIRST SAMANTHA	8B. MIDDLE LEEWRIGHT	8C. LAST - BIRTH NAME HARDAWAY	8. DATE OF BIRTH - MM/DD/YYYY 10/16/1975
9. DATE OF BIRTH - MM/DD/YYYY 10/18/1971		10. BIRTHPLACE - STATE/COUNTRY AZ	
130. TYPED NAME, TITLE AND MAILING ADDRESS JAN RYDFORS, MD, 401 W			
131. DATE OF DEATH - MM/DD/YYYY		132. STATE FILE #	



000456381

Dashiell Hardaway Richard
12/16/2008
Male | Single

VI Photo  TM



What It Does



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



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.



STEALTH SI™

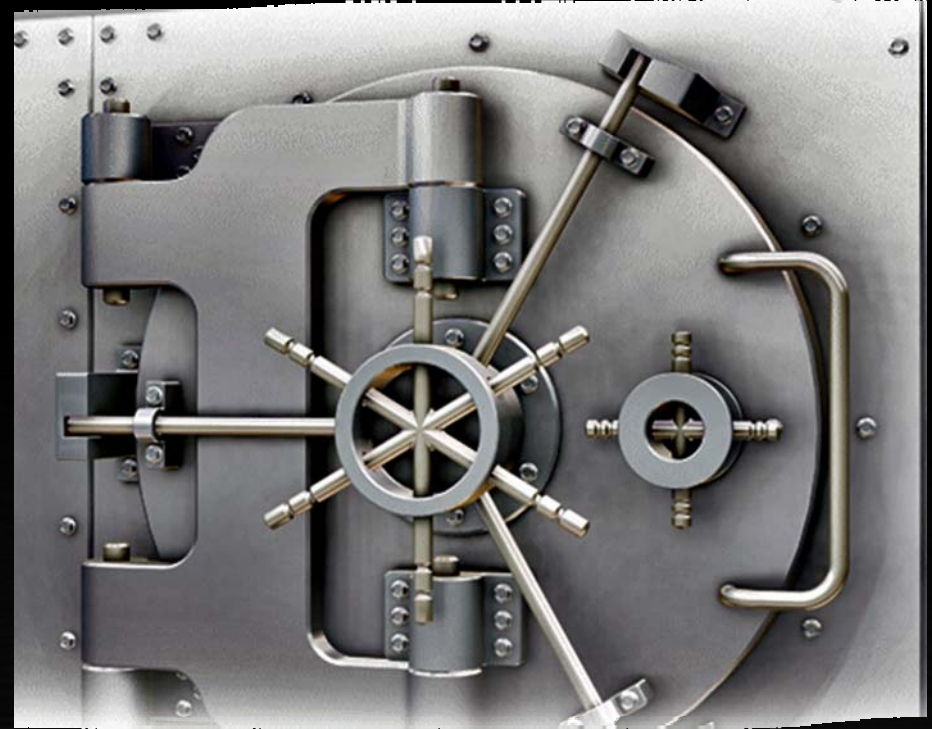
STEALTH SI™

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

STEALTHSI™

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

STEALTH

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



Place optical decoder over nameplate to reveal encrypted SI data.

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.

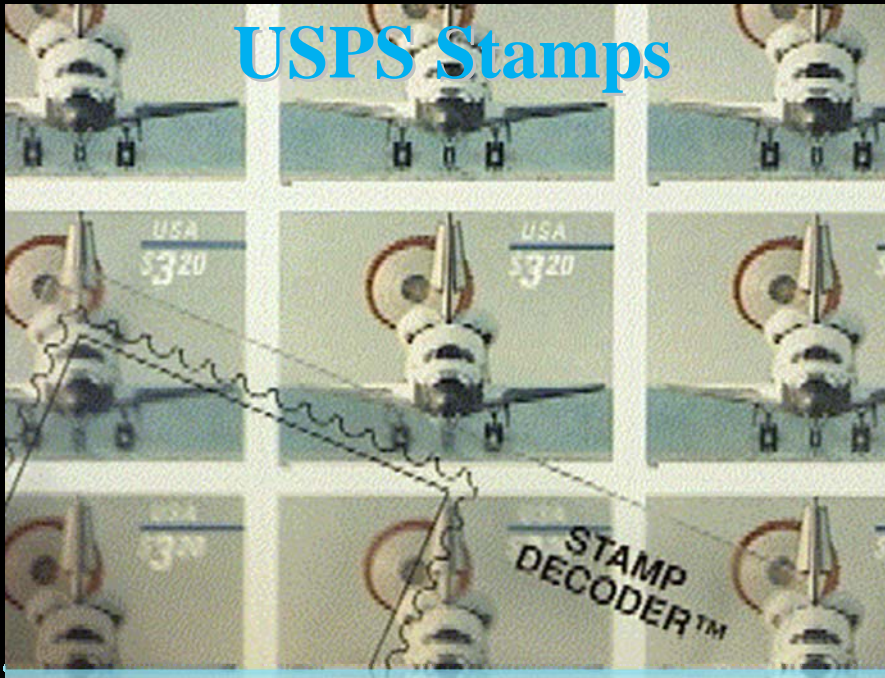


Printed, engraved, embossed or laser etched SI nameplate.

SI® Examples

STEALTH SI™

USPS Stamps



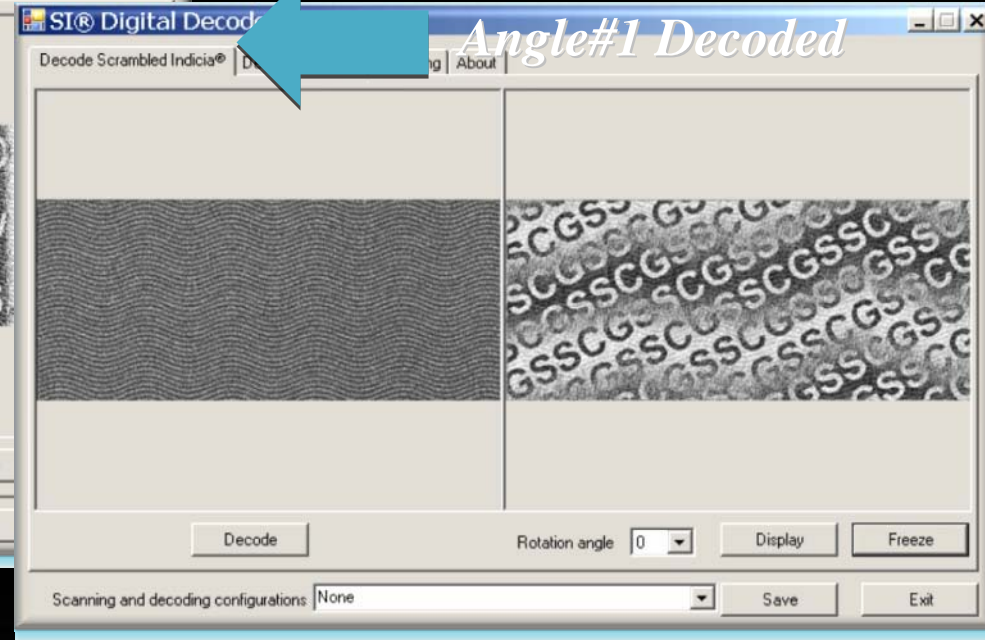
Holograms



Digital Decoding



Graphic Security Systems Corporation
Graphic Security Systems Corporation



Angle#2 Decoded



Web Decoding



Graphic Security Systems Corporation
Graphic Security Systems Corporation

ScanInfo - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Refresh Print Stop

Address http://localhost/DataHost/scanInfo.aspx?id=2

WEB DECODER

GSSC©2005

Logout

Scanned Image

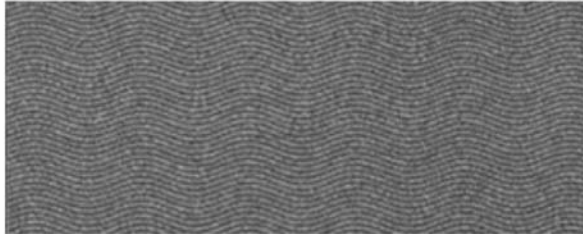


Image Size 65 % Redraw

Rotation Angle 90

Inspector Steven Buchanon

Product Example Tablets

Product SN N316Z40P3

Scan Date/Time 7/17/2005 12:00:00 AM

Location GSSC Office

Address 4450 Jog Road

City Lake Worth

Region Florida

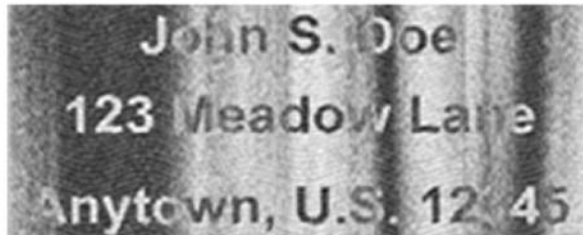
Zip Code 33467

Verified As ok Verify

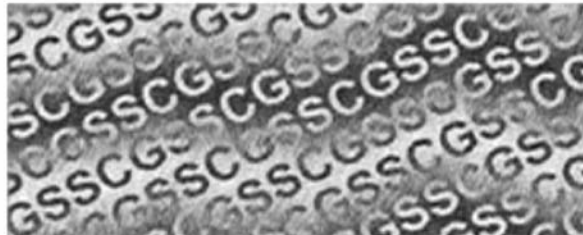
Note Supervision

Product is authentic.

Angle #1



Angle #2



Start | Taskbar: Inbox - M..., Inbox - O..., DataMonit..., Character..., 2 Intern..., SQL Serve..., Adobe Ph... | 9:53 AM

Some Success Stories...



Graphic Security Systems Corporation
Graphic Security Systems Corporation

USPS – 28 stamps
More than a billion printed!

NOKIA
Connecting People



D
DE BEERS

COMPAQ

 **UNITED STATES**
POSTAL SERVICE®

CATERPILLAR®

 **macy's** way to shop®

MONT
BLANC



 **AVERY**
DENNISON

SI® added into the holograms
and hot-stamp foils

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.*

www.hwsands.com

iDetector®

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

How It Works

iDetector[®]

Digital



Mobile



Coming Soon...

iDetector[®]



Coming Soon...

iDetector[®] for iPhone

www.graphicsecurity.com

www.hwsands.com

Security Technologies Comparison



Graphic Security Systems Corporation
Graphic Security Systems Corporation

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