



High-performance ink solutions
Specialty & high-security applications
Consulting & support

BIOMETRIC
MAGNETIC
INVISIBLE
DYES

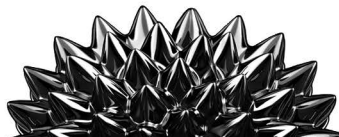
PIGMENTS
IR & UV
CMYK SPOT
DISPERSIONS



diversifiednano.com



goinkcrypt.com



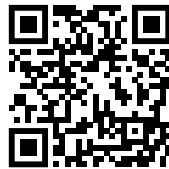
ABOUT US

Diversified Nano Solutions Corporation (DNSC), based in San Diego, California, specializes in developing and manufacturing nano materials and fluids used in high-performance functional inks for digital printing, unique customer applications, research and surface treatments. As a leading manufacturer of digital inks, DNSC's comprehensive ink portfolio includes: cmyk/spot-dye and pigment, MICR, Invisible IR and UV, food, textile and custom ink based on water, solvent and UV curing formulations. DNSC provides INKcrypt® AR Ink™ Solutions, an industry exclusive, which integrates revolutionary AR Ink™ and INKcrypt's biomarker technology with digital inks and the power of the internet. INKcrypt® AR Ink™ enables instant proof-of-item identity and location tracking using any internet connected device. The solution helps individuals, brand owners and large enterprises to grow market share and eliminate illicit trade. Counterfeiting and illicit trade are pervasive in nearly every industry sector, harming consumers and brand owners, while costing the global economy over 1 trillion dollars annually. Preservation of product and information integrity is increasingly important as sophisticated counterfeiting efforts easily defeat existing anti-counterfeit technologies.



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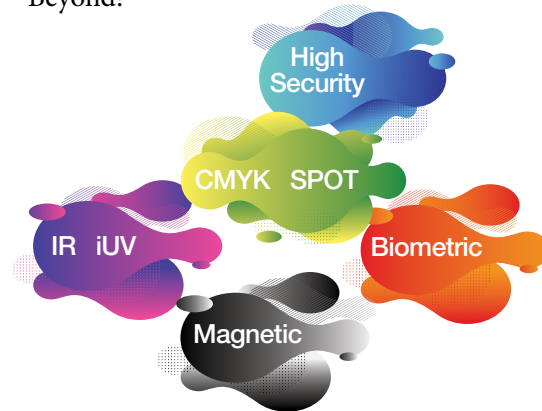
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Scan QR for Details

AR Ink™
Print & Beyond!

AR Ink™ Solutions — AR Ink™ allows conveyance of hidden content beyond visible reality—hidden images, image in an image, etc.—that link bio-markers to supply chains, brand owners, product features and more. AR Ink™ enables Print & Beyond!



- Increase Value & Trust
- Grow Market Share
- Maximize Transparency & Loyalty

AR Ink™ + Enablers = Value / Benefits





Real-Time Authentication, Tracking, Analytics and True Counterfeit Protection at low cost and superior performance!



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authenticate. track. connect. goinkcrypt.com

INKcrypt® AR Ink™ Solutions —
INKcrypt® is a revolutionary DNA biomarker technology for ink and fluids which eliminates losses from counterfeiting, revolutionizes supply chain, and provides a next level customer loyalty experience.



INKcrypt® AR Ink™ Solutions for:

- **K-Series** - MICR Ink & Pigment
- **I-Series** - Invisible UV fluorescent & IR-absorbing Dye & Pigment Inks
- **V-Series** - Dye & Dye Pigment Hybrid Inks
- **E-Series** - General Purpose Pigment Inks
- **S-Series** - Specialty and UltraFast-Drying Inks
- **T-Series** - Textile Pigments

*Also available for qualified 3rd party inks.



INKcrypt® Protects Value



INKcrypt® DNA Biomarkers can be added to virtually any physical item, surface, packaging, porous, non-porous materials etc. – the ideal protection for Business, Finance, Pharmaceuticals, Industrial, and valuables.



Methods to Apply INKcrypt® Biomarkers



Brush



Markers



Inkjet



Airbrush

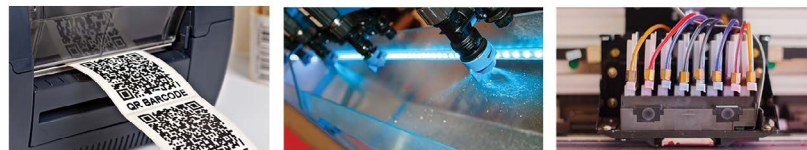


Dispenser



Flexo/Offset

INKcrypt® DNA Biomarkers are available as fluids/inks that can be applied in a variety of customer-specified methods.



INKcrypt® Process

Implement in three easy steps!

- 1 Apply
- 2 Test
- 3 Authenticate
Analyze
Track

INKcrypt® Features

Authentication: Item (Level 1 & 2)

Global Tracking

Authentication: Biomarker (Level 3 – “Certain”)

Analytics

Test Time: Item (Level 1 & 2) < 1 sec

Test Time: Brand ID (Level 3) ~ 5 sec

Cost per Test: Item (Level 1 & 2) 0

Cost per Test: Brand (Level 3) Starting at <20 cent

Cost per Graphic Mark: Level 1 & 2 Starting at <0.1 cent

Cost per Biomark: Level 3 (“Certain”) Starting at <0.2 cent

Annual Cost per Membership Varies

Test Requirements: Item (Level 1 & 2) Open Standard

Test Requirements: Biomarker (Level 3) Proprietary

Marking Requirements: Item (Level 1 & 2) Open Standard

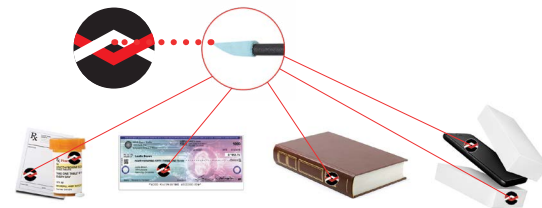
Marking Requirements: Biomarker (Level 3) Open Standard

STEP 1. Collect Unique DNA Biomarker Sample from INKcrypt® Biomark.

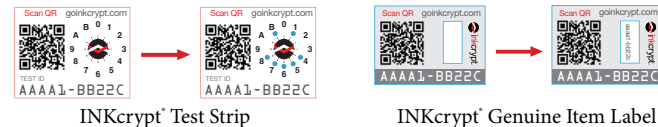
STEP 2. Test DNA Biomarker sample in real-time using INKcrypt® Test Strip or the push-release INKcrypt® Plus Genuine Item Label.

STEP 3. Authenticate INKcrypt® Test Result using the INKcrypt® platform. Scan QR or enter INKcrypt® Test Strip ID using the goINKcrypt app/website to Submit, Analyze & Track.

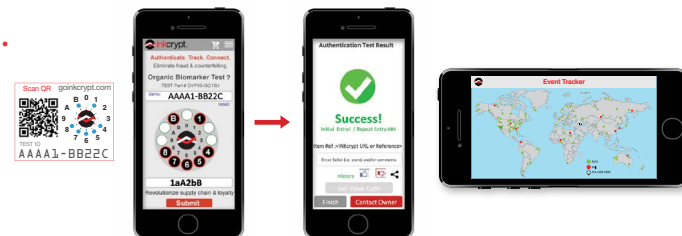
STEP 1.



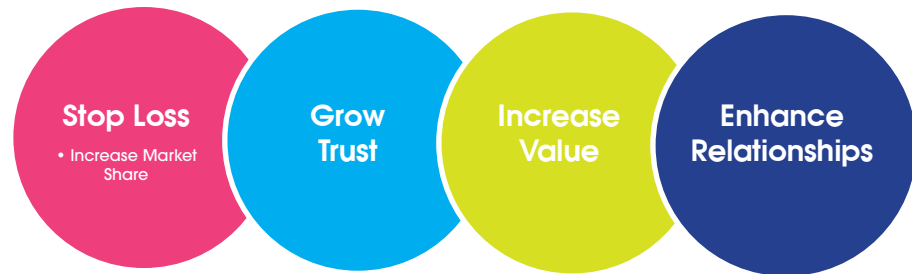
STEP 2.



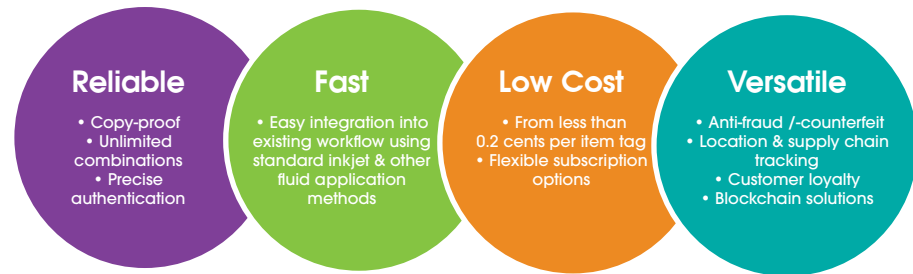
STEP 3.



INKcrypt® Improves Value



INKcrypt® Gives You Piece of Mind





MICR Magnetic Ink for Digital Printers is a general purpose magnetic black security MICR (magnetic ink character recognition) ink that is ideal for professional, high-speed, high-density, industrial and business inkjet printing.

- **K-Channel** – black ink printing
- **Tagging** – magnetic substrates
- **Printing** – money orders, checks & more
- **Scanning** – magnetic barcodes & patterns

Add magnetic (MICR) content, images and artwork to personal and business documents, and value items such as tickets, labels, certificates, tags, ID badges and more.

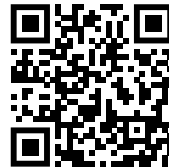


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 k-series

UV Fluorescent & IR Absorbing Invisible Inks — disrupt and inspire with stunning invisible color inkjet printing.

UV Fluorescent & IR Absorbing inks are general purpose inks for high-definition inkjet printers, and these inks are ideal for security, authenticity, tracking, decoration, textile, life science and many other special effect applications.



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specialFX™ is a new X-Series family of pigment powders and base component dispersions made from special effects raw materials which glow in the dark, UV fluoresce, absorb IR, and change color with light or heat. These extraordinary properties can be used in a large variety of unique customer and market applications including security, textiles, temperature indication, safety precautions, tinting, and much more. Use these pigments/dispersions to custom develop and produce ink, paint, paste, dispersion, gel, cream, and powder.



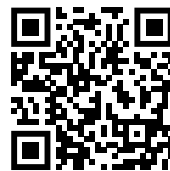
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Food Grade Materials & Pigment Powders — printing on various foods & packaging substrates.



The F-Series food grade pigment powders are ideal for users looking to develop, produce and market applications based on the properties and regulatory compliance requirements associated with food and food packaging.

Delivered in base components, the pigments are available in a large variety of colors and are ideal for inks (dot-on-demand, offset, and flexo), as well as paints, pastes, dispersions, gels, and powder compositions.



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Textile Pigment Powders — printing on various substrates.

The T-Series textile pigment powders are for users looking to develop, produce and market applications based on the properties and regulatory compliance requirements associated with textile and various material substrates. Delivered in base components, the pigments are available in a large variety of colors and are ideal for inks (dot-on-demand, off-set, and flexo), as well as paints, pastes, dispersions, gels, and powder compositions.



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Value Series Inks

The V-Series value inks are general purpose dye and dye/pigment hybrid ink, ideal for economical, high-quality desktop and digital inkjet printing. Inks are available in premium CMYK, as well as in Red, Blue & Green Spot colors.



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Elite Series Inks

The E-Series elite general purpose pigment inks are ideal for professional, high-speed, high-density, industrial inkjet printing.

Inks are available in elite CMYK, as well as in Red, Blue & Green Spot colors.



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Specialty Fast-Dry Pigment Inks

The S-Series specialty fast-dry pigment inks are ideal for professional, high-speed, industrial inkjet printing.

Inks are available with Fast-Dry and UltraFast-Dry properties, and come in various colors, including: Black, Red, Blue & Green.



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Black Ultima4000 Fast-Dry Rich Black Dye Ink

The U-Series Black Ultima4000 fast-dry rich black dye ink has sharp edge acuity and is ideal for professional, high-speed, high-yield and high-end industrial inkjet printing.

Inks dry unassisted with Ultima Fast-Dry properties, are fade, smear and water resistant.



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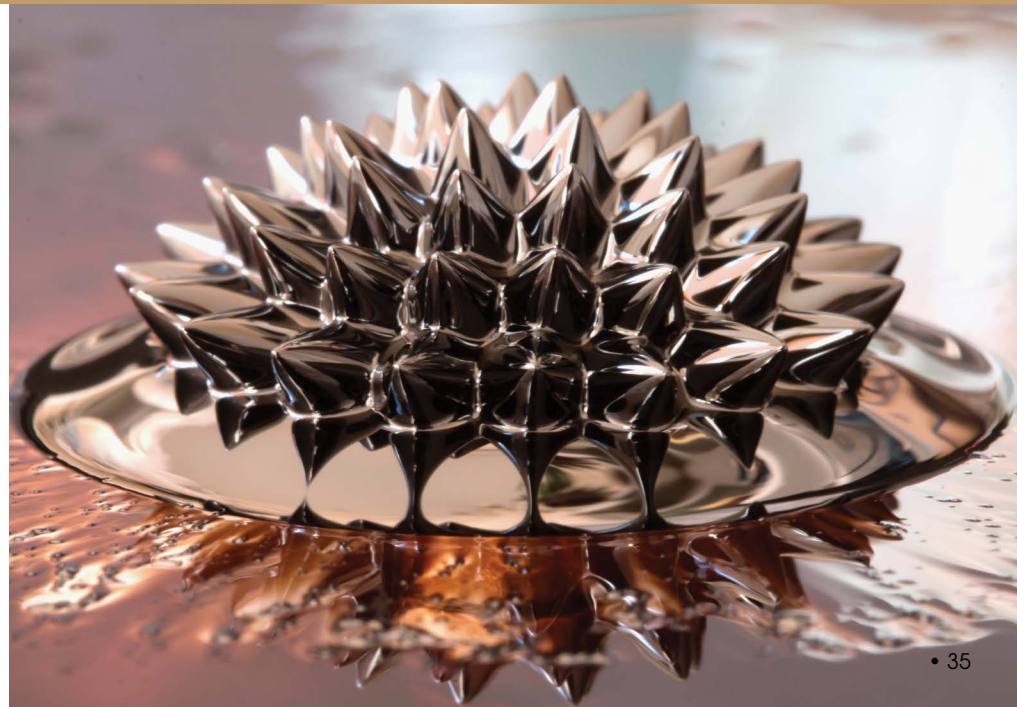


Magnetic Fluid

M-Series Magnetic Fluid is composed of nanoparticle dispersions available in iron oxide and multi-metal formulas, ideal for unique users of custom market applications.

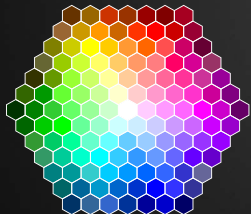


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Signature X Inks® — contain special blends of UV fluorescent and visible pigments & dyes to create unique spectrophotometric identities or “signatures”

Signature  Inks



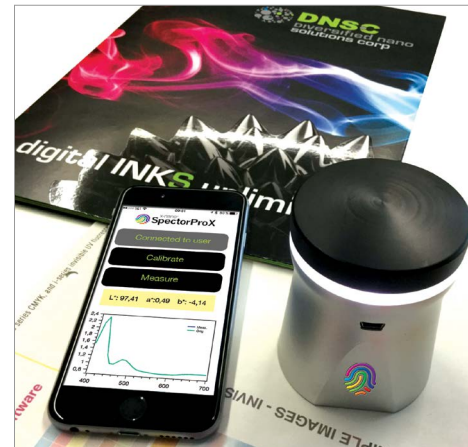
Signature X Inks® are customized ink blend of Invisible UV fluorescent and visible pigments & dyes that are ideal for unique, ultra-secure, anti-counterfeit inkjet printing.

SpectorPro X — UV+Visible Spectrophotometer for ink signature analysis with associated SpectorPro X App. Exciting: 365-700nm; Emission: 400- 700nm.

- Precise spectrophotometric ink “signature” verification.
- Quick on-the-spot verification of unique UV fluorescent and visible ink pigment and dye compositions.
- Ideal for authentication of documents, signatures, labels, packaging and physical objects associated with unique ink “signatures.”



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 **SpectorProX**
PRODUCT VALIDATOR



AR Ink™

Print & Beyond!



inkcrypt.

Authenticate. Track. Connect.

goinkcrypt.com



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