META®
Go Beyond.

META®
Go Beyond.

Brand Protection

NANO™ protect

Redefining brand security with the next generation of technology

NANO™ protect security labels deliver a new brand protection solution through nano-optics. A unique combination of nano and micro-structures enables animated movement with always-on, structural colours.

A sophisticated blend of the most advanced authentication optics in the market today, combined with security feature design expertise, enables an optimal security feature with unique visual effects that cannot be replicated by other technologies.

Manufactured without inks, pigments, or dyes, NANO protect security labels are one of the most environmentally friendly overt solutions.

Key Benefits

MEMORABLE VISUAL EFFECTS
NANO protect security features instantly draw attention and promote a memorable self-authentication experience.

EXTENDED BRAND PROTECTION
Nanotechnology delivers the most advanced visual effects in the market, near impossible to replicate.

EASY AUTHENTICATION
Highly visible, easily triggered authentication across wide viewing angles and complex lighting conditions.

SUSTAINABLE SECURITY
Built on a single layer of embossed material, without inks or dyes, making it one of the greenest security features available.

TECHNOLOGY INTEGRATION FRIENDLY
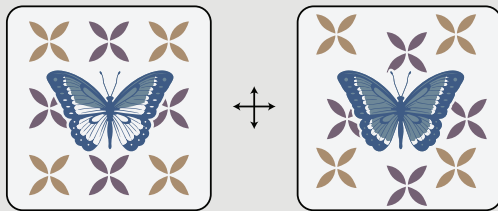NANO protect supports a variety of form factors and complementing track and trace technology.

REINFORCED BRAND IDENTITY
Complete customization of the multi-coloured designs and visual effects can bring your brand story to life.
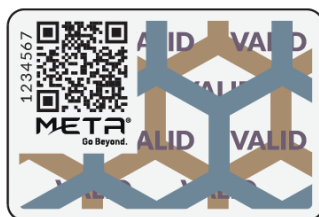
Customizable and Intuitive Authentication

META®
Go Beyond.

Elevate your brand's security with NANO protect security labels. Customize format effects, colours, shapes, movement, and depth to seamlessly complement any design theme, allowing your brand's unique story to unfold.

- ✔ Simple and fast authentication
- ✔ Wide viewing angles
- ✔ Visible in poor lighting conditions
- ✔ Fully customizable

Flexible Design

Wide variety of form factors and supports track and trace

Moving shape or fill effect that reveals an image or pattern.

Multi-layered patterns that move in all directions.

Simple patterns that move in a single direction.

Sustainability

Metamaterials do more with less - using a fraction of the material of competing micro-lens solutions, there is no need for laminated layers of lens-arrays, focal spacers, and inks or dyes. Visual effects are produced from the single layer of embossed structures.

→ Reduce the quantity and variety of material for enhanced sustainable security.

→ Reduce the number of production variables while increasing durability and consistency.

→ Secure production facility powered by renewable hydroelectric energy.

→ Plasmonic metastructures require no dyes, inks, micro-lenses, or gratings.

Overt Security Features

MULTIPLE 3D ELEMENTS	✔
MULTIPLE COLOURS	✔
OMNI-DIRECTIONAL MOVEMENT	✔
OVERPRINTING	✔

Technical Specifications

LABEL GAUGE	36 - 50 μM
MAXIMUM RESOLUTION	25,400 PPI
COLOUR PALETTE	200+ COLOUR PALETTE
DIMENSIONS	CUSTOMIZABLE, UP TO 50 mm X 50 mm

Covert Security Features

MICROTEXT	✔
UV FLUORESCENCE	✔
NANO-IMAGERY	✔

Functionality

TAMPER EVIDENT	✔
QR CODE	✔
SERIALIZATION	✔

META®
Go Beyond.