

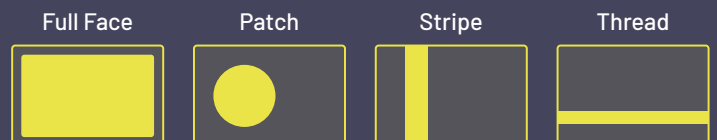
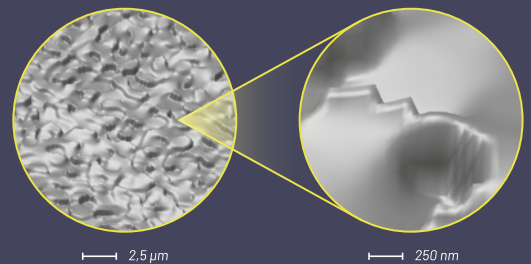
Signature effects for documents







nanoDOVID® High-security technology for identity documents

nanoDOVID® is an advanced diffractive optically variable image device (DOVID) based on nanostructures, offering the highest level of protection for IDs, banknotes, and documents against counterfeiting on a global scale.

nanoDOVID® provides multi-level authentication, including overt, covert, and forensic. It also allows for digital authentication using a smartphone.

nanoDOVID® can be applied in various formats, including full face, patch, stripe, and thread.



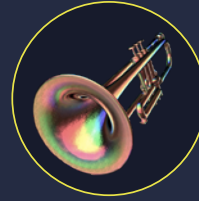
EFFECTS CATEGORIZATION	Category	Level	Effects	
	Higher	1	Rainbow Bas-relief	
	Deeper		Deep Plane	
	Hidden	2	Laser Readable Image	
	Smaller	3	Micrograf	 
	Robotic	4	Robotic QR	

Documents signature effects description

Higher

Rainbow Bas-relief

- 3D object as a sculpture
- Rising above the plane
- No haptic response (feels flat)
- Chromatic with rainbow colors
- Visible under all lighting conditions



Color

White

Deeper

Deep Plane

Color/White

- Wireframe (3D object outline)
- Hovering above or below the plane
- Different depth levels
- Tilt the card around the vertical and horizontal axis to observe the object

Color

- 3D space appears when the card is tilted around the vertical axis
- Color changes when the card is tilted around the horizontal axis

White

- 3D space appears when the card is tilted around the horizontal and vertical axis



single parallax



Left tilt



Right tilt

full parallax



Left tilt

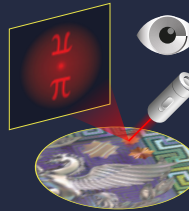


Right tilt

Hidden

Readable Image

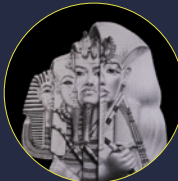
- Laser-projected 2D object
- When illuminated by laser it reveals a simple image or a monogram



Smaller

Micrograf

- Grayscale image at the micro scale
- Visible under a magnifying lens



3 mm



5 mm



Robotic

Robotic QR

- Grayscale QR a few millimeters in size
- Readable with a smartphone

