

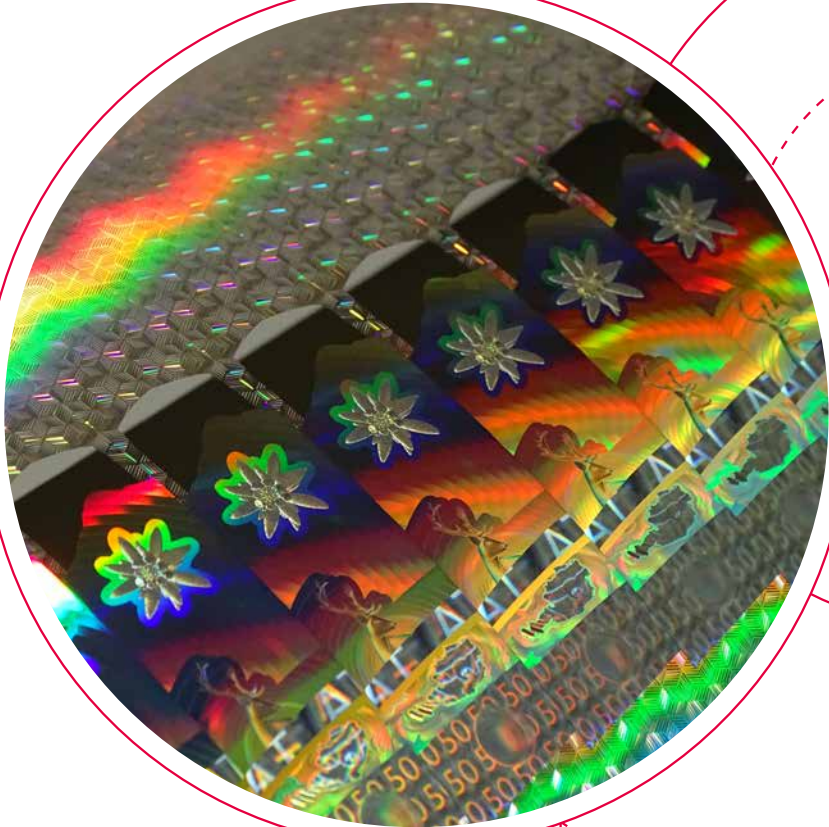
AUSTRIAN ALPS

Nanoengineered holographic stripe

Since more than 30 years HUECK FOLIEN is producing holographic stripes and threads for banknotes. Over the years holographic embossing technologies have constantly developed and new holographic features have been generated. Today's origination technology goes far beyond standard rainbow holograms. Nanoengineered structures are created by state-of-the-art origination technology to receive completely new effects in 3D and moving elements. Our partner IQ Structures has a wide portfolio of hologram effects. The latest holographic features are shown on our "Austrian Alps holographic stripe".

The HUECK FOLIEN "Austrian Alps" sample stripe shows a combination of state-of-the-art-effects: a "White 3D bas-relief" in opposition to a "Rainbow 3D bas-relief", the "Full3D keyhole effect", a "Full3D magnifying lens effect" and the movement in the "Swap Parallax effect".

Finally the combination with HUECK FOLIEN'S TRILUMIC® UV printing on the backside of the stripe, raises the holographic stripe from a public level 1 feature to a level 2 security feature on the banknote.



Linear kinetic effect

Effect appears as a transition of a color along the shape when hologram is tilted in horizontal axis. It is applied to the background (lines of the decorative pattern).

Rainbow 3D bas-relief effect

Diffractive CGH based effect appears as extremely bright 3D bas-relief surface. It is best viewed in point light, but it is well visible even in diffuse light. Due to non-linear grating technology serves as a strong security element.

Swap Parallax effect

Effect appears as wireframe shape moving on the surface of the hologram in swapped parallax manner. I.e. if an observer tilts the hologram in vertical parallax the image will move in horizontal direction and vice versa. The effect is applied to the text „AT“.

White 3D bas-relief effect

This effect uses achromatic nanogravure technology to create reflective 3D bas-relief with high level of detail. The effect appears as a white glossy surface and is well visible under any kind of illumination including diffuse daylight. It is applied to the stripes of the decorative pattern and the flower shape.

Expansion kinetic effect

Effect appears as a transition of a color along the shape when hologram is tilted in horizontal axis.

Full 3D keyhole effect

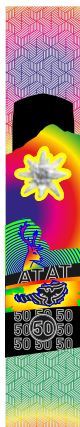
A real 3D effect of eagle with circles floating below the area located in the plane of the hologram. When tilting the hologram, all the details of the image can be observed.

Full 3D magnifying lens

3D magnifier lens effect enlarging part of the text „50“



Visualisation



Hologram



View under UV-light
front side



Trilumic®
under UV-light

Contact

Dipl.-Wirt.-Ing. Jan Hofmann

Sales Director SECURITY

T +43 7269 7570-180

M +43 664 961 78 69

j.hofmann@hueck-folien.at

www.hueck-folien.at

HUECK FOLIEN GmbH

Gewerbepark 30

4342 Baumgartenberg, Austria