



EXPERT SOLUTION FOR AUTHENTIC SECURITY

BRAND SECURITY





ABOUT US

Joint stock company 'Krypten Research and Production' is specialised in the production of special security elements (diffractive optical variable devices) for security printing, labeling goods, accompanying papers, authenticity validation of manufactured products and documents with visual and technical control of its authenticity.

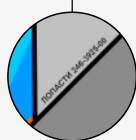
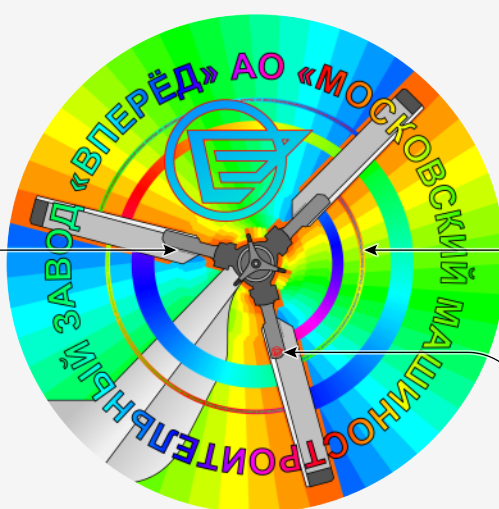
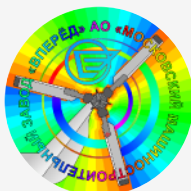
Krypten specialises in the development and production of diffractive optical security devices of all kinds:

- Self-adhesive security labels and holographic foil for hot-stamping.
- Holographic laminates of cold and hot stamping, holographic overlays, PC inlays.
- Security threads: straight and curvy thread, diving thread, multilayered thread including various combinations of visual and machine-readable features.

MASS PRODUCTION SECURITY LABELS

Hot stamping foil «Moscow machine-building plant for the production of helicopter blades»

original scale



Non diffractive microtext
50 micrones high

Rainbow dynamic
along the circles

Tail rotor blades high resolution with
holographic grey dynamic contrast

Main rotor blades with
rainbow spin effect

Helicopter tail with holographic
grey dynamic effect

Text with rainbow
dynamic effect



Diffractive microtext
100 micrones high

Diffractive microimage
450 micrones high

Logotype high resolution
with motion effect

Custom size and form available.
Custom holographic image design available.

Hot stamping foil with micro demetallisation «DINAMO»

original scale



Logotype of Dinamo society high resolution with rainbow dynamic

Diffraction text on a circle 500 microns high demetallised with HPMD technology

Gilloche lines with spin dynamic effect

Rainbow snowflakes with dynamic effect

Diffraction microtext 100 microns high

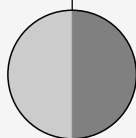
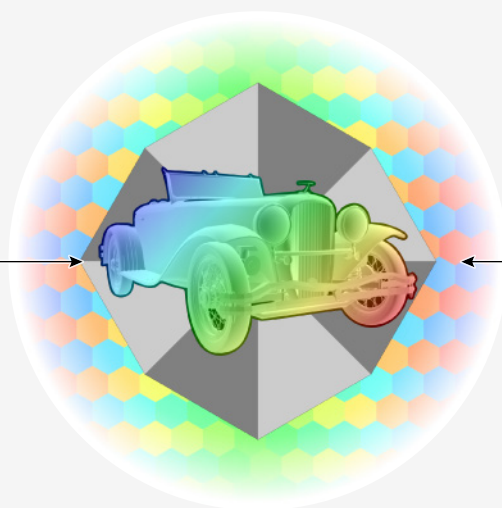
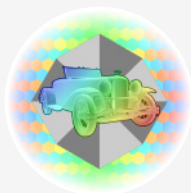
HPMD technology



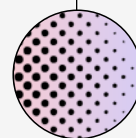
Custom size and form available.
Custom holographic image design available.
Custom image for micro demetallisation available.

Hot stamping foil security label with GRADIENT technology «Auto Infinity»

original scale



Octahedron on the back with
holographic grey dynamic contrast



Transition area from Al to ZnS

Background diffractive hexagons
with dynamic effect

Cabriolet with rainbow
bas-relief technology

Custom size and form available.
Custom holographic image design available.
Custom shape of rastr demetallisation available.

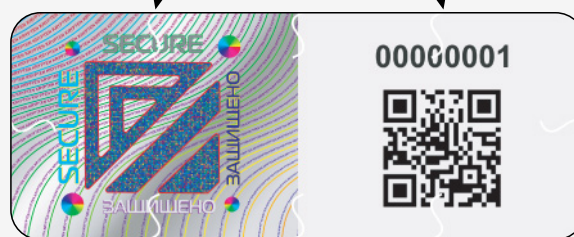
Holographic self adhesive tamper evident security seal «Krypton»

Security seal applied on packaging, protects it from opening, changing content and serialize it. Super tamper evident base prevents seal repasting without its distruction. Holographic image consisting of dynamic visual effects makes this seal highly resistant to forgery and counterfeiting.

original scale



Cuts



High resolution logotype consisting of array of dynamic randomly distributed letters «S, E, C, U, R, I, T, Y» with 100 microns height

Printed QR code and serial number (other printing)

Text with diffractive dynamic effect

Diffractive microtext on the back 200 - 50 microns high with dynamic effect

Microlenses size of 1,5 mm & 1 mm

Achromatic dynamic background

Custom size and form available.
Custom holographic image design available.

Holographic stripe with hidden image «Siltech»

Security stripe combine holographic visual diffraction and different effects on it with hidden image for authentication by identifier. Security stripe could applied on a paper or on a tamper-evident sealing tape for better protection.

СИЛТЭК ГАРАНТИЯ СИЛТЭК ГАРАНТИЯ
ГАРАНТИЯ СИЛТЭК ГАРАНТИЯ СИЛТЭК

Hidden image



Holographic image

Custom hidden image design available.
 Custom holographic image design available.
 Custom image pattern of distruction available.

MASS PRODUCTION SECURITY PHOTOPOLYMER LABELS

3D-Gram-C™ security hologram for Insurance Company «Sogaz»

Photopolymer 3D-Gram-C™ hologram made with high selectivity Bragg gratings formed in volumetric photopolymer environment. «Sogaz» is a bi-colour photopolymer label for insurance form of citizens. Distinctive features from rainbow hologram are stable colours in different angles, true parallax (deep image). Photopolymer hologram usually accompanied by personalisation number above material made with lazer demetallisation or inks.

original scale



original scale



Cuts



Green + Blue design



Green + Red design

Bas-relief blue logotype
clearly visible in a stray light

«Plus» matte green elements with
parallax effect, clearly visible in a spot light

Background image is working like green
relief clearly visible in a spot light

Logotype, rectangle below and
giliosh lines with green mirror effect

Rectangle text plate with
blue colour mirror effect

Rectangle plate down below
with red colour mirror effect

Microtext 100 micrones high

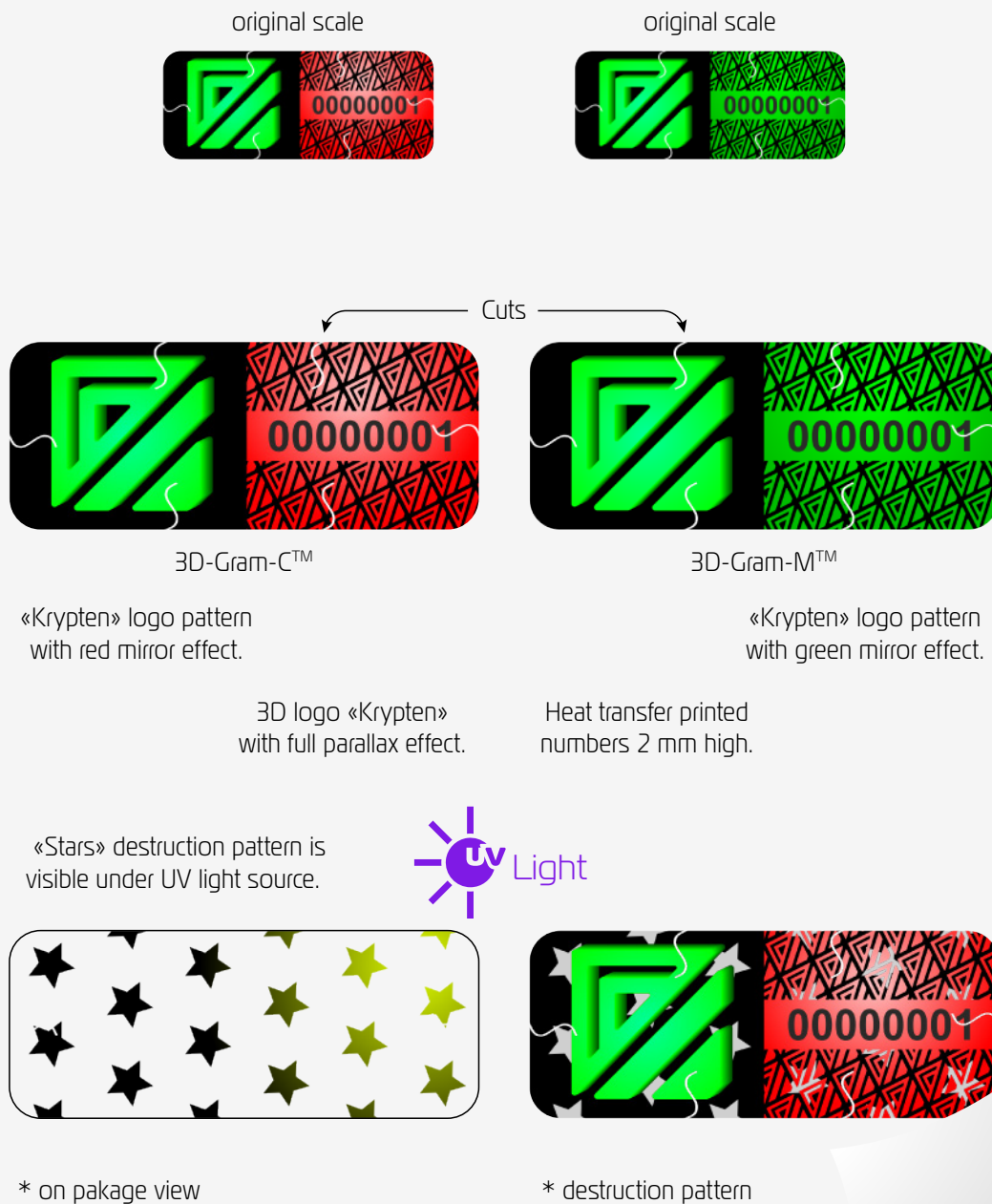
Microtext 100
micrones high

Custom UV image design available.
Custom holographic image design available.



Self-adhesive label with 3D-Gram-C/M™ protecting pharmaceutical package authenticity

Tamper evident security label combined with cut through perforation prevents label reapplication without breaking label's integrity. Featured volume phase hologram is fundamentally different from well-known rainbow holograms by the depth of 3D scene, which drastically improves label's security from forging and imitation.



Custom size and form available.
Custom holographic image design available.



Sealing label with 3D-Gram-M™ hologram thread «Original»

Photopolymer 3D-Gram-M™ hologram as a high security level of protection applied on a paper sticker with personalisation. Hologram contains different kind of effects and security features like 3D, parallax moving, and microtexts. Different holographic image colour available.

original scale



original scale



original scale



Black ink



Blue ink



No ink

Texts «ORIGINAL», «ORIGINAL PRODUCT» and plus with 3D effect

Microtext 100 micrones high

Custom size and form available.
Custom holographic image design available.



3D-Gram-M™ Self-adhesive label «Cobra»

Photopolymer 3D-Gram-M™ sticker with deep bas-relief effect, display recognisable sharp image both in spot and scattering light source. Can be applied on different substrates such as paper, PC etc.

original scale



Any kind of logotype or emblem could be realised in 3D scene of holographic image

Custom size and form available.
Custom holographic image design available.



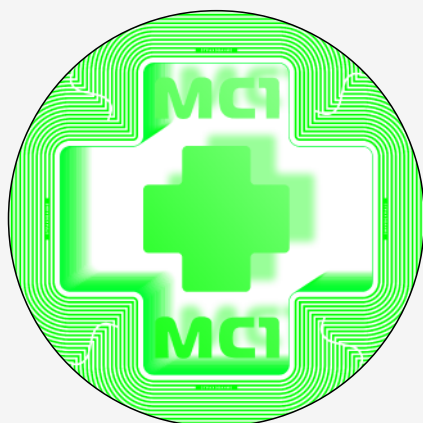
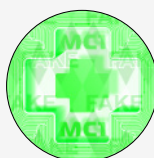
3D-Gram-M™ security hologram with copy prevention «Fake MC 1»

A feature of the «Fake MC 1» security hologram is an additional invisible layer to protect against possible laser copying. When you try to copy a hologram in addition to the original image, one more is formed on top of it, demonstrating that the hologram is copied.

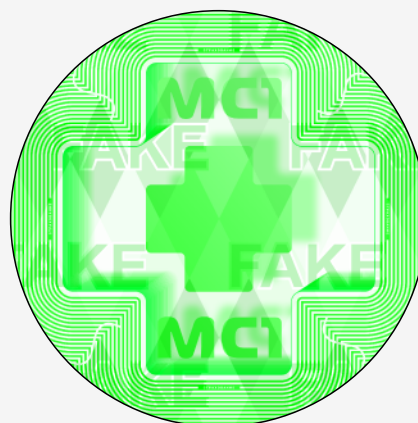
original scale



original scale



Original master
hologram image



Copied hologram

Text «MC 1» with
green mirror effect

Microtext 100
micrones high

«Plus» with true
parallax effect

Guilloche lines with
green mirror effect

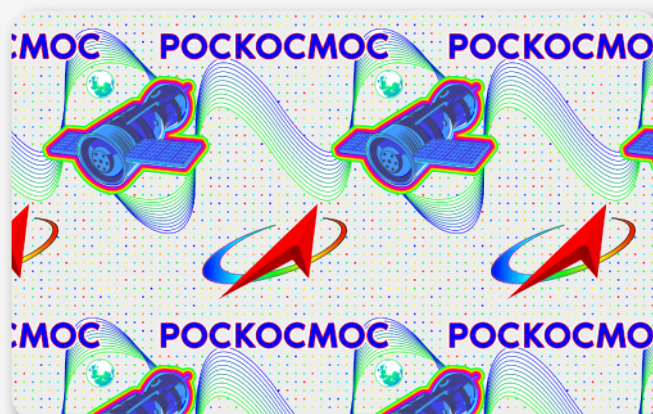
Custom size and form available.
Custom holographic image design available.



MASS PRODUCTION SECURITY LAMINATES / OVERLAYS

Holographic overlay for hot lamination «Roscosmos»

Product firstly focus is ID protection but also secure company visual signs as logotypes, emblems, special graphis, etc. Our company can offer a wide range of holographic laminates for hot and cold lamination and various film thicknesses, one of them is for government corporation «Roscosmos».



High resolution logotype
with rainbow bas-relief effect



Moon with rainbow
dynamic effect

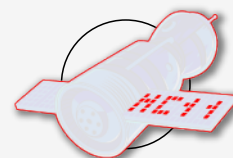


Image visible when
rotated by 90 degrees

Microtext 50 micrones high

Microtext 75 micrones high



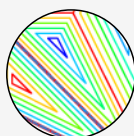
Hide image area

Gilloche lines with
flow dynamic effect

Background filled with 300 micrones
dots with flickering effect

Diffractive Soyuz MS-11 spaceflight with
high resolution and dynamic effect

Hot stamping security patch with HPMD «Sochi 2014 Paralympic Games» / «Sochi Diamond»



Colorful guilloche ornament
with pulse effect



Repetitive diffractive microtext
«SOCHI 2014» 80 micron high



Diffractive microtext
«PARALYMPIC GAMES»
60 micron high



High resolution color logotype
with kinetic effect



Text «SOCHI2014.RU» with dynamic contrast,
text «PARALYMPIC GAMES» with matte
grey effect and color contour

Colorful thin lines forming
«SOCHI 2014» text



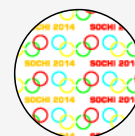
«Star» element with
dynamic contrast effect



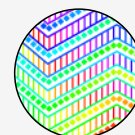
«Diamond» element with
dynamic contrast effect



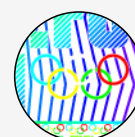
Diffractive microimages of
«Olympic Rings» with repeated
text «SOCHI 2014» 70 micron high



Diffractive ornament
with kinetic effect



High resolution diffractive
image of «Olympic Rings»



Custom holographic image design available.
Custom demetallisation image design available.
Holographic color permutation effect in different viewing angle.

Holographic PC overlay with micro demetallisation «Aeroflot ID»



Holographic image of «plane»
with TrueColor effect

Holographic map with kinetic effect
and holographic microtext «AEROFLOT»
190 microns, «RUSSIAN INTERNATIONAL
AIRLINES» 140 microns

High resolution holographic text
«Russian International Airlines»
with kinetic effect

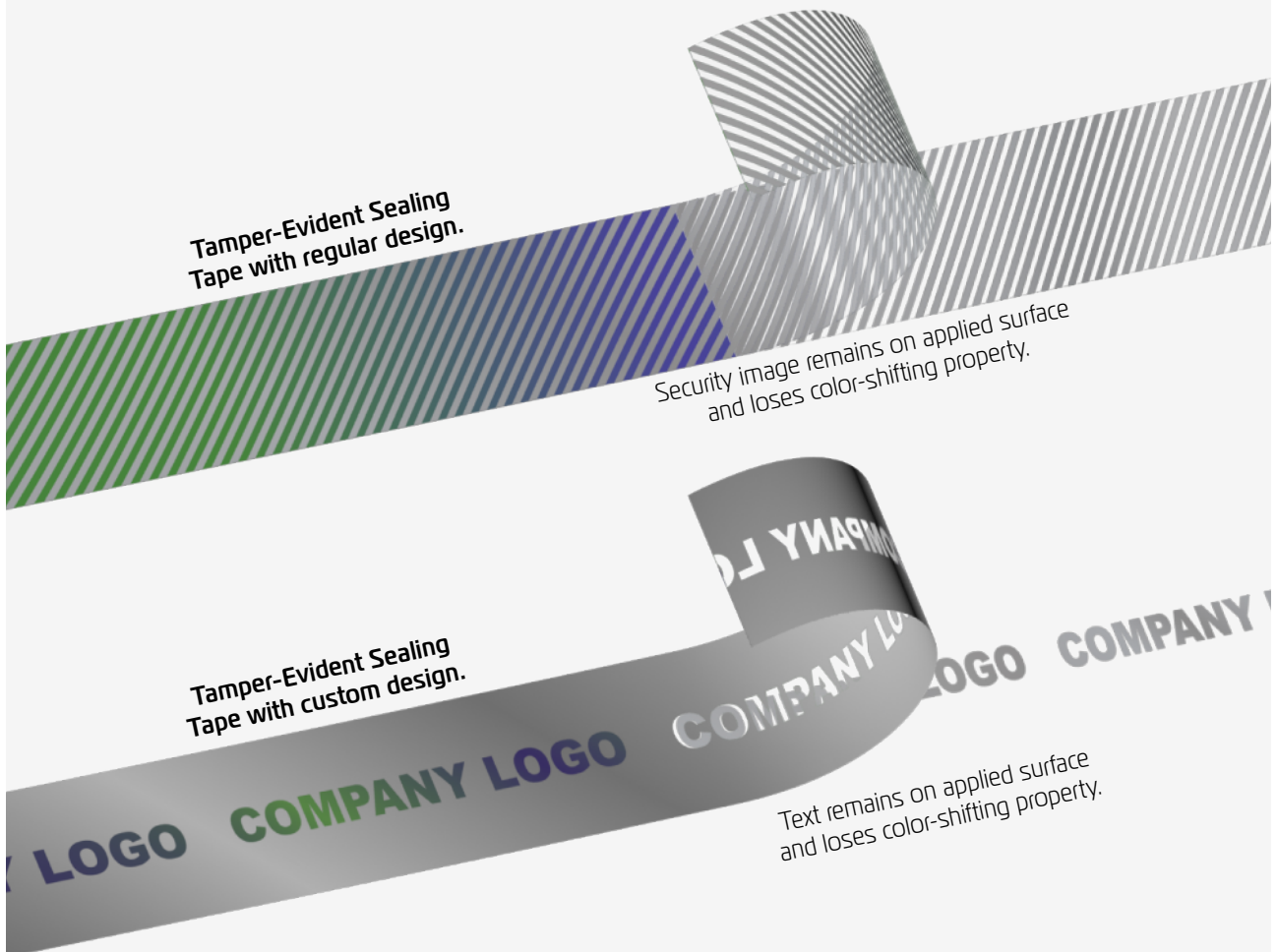
Hologram is demetallised
with HPMD technology

Custom holographic image design available.
Custom demetallisation image design available.
Holographic color permutation effect in different viewing angle.

OTHER SOLUTIONS

Tamper-evident sealing tape with colorshifting image

Protects package from unauthorized tampering with customizable security image, which changes color under different viewing angle. Upon tape removal security image remains on package while losing its color-shifting property.



Patented technology for cigarette pack authentication

ADVANTAGES:

- Free design;
- Simple and affordable authentication;
- Protecting and enhancing product and brand appeal;
- Elements are resistant to temperature and pressure;
- Compatible with standard printing and embossing procedures.



Security complex

«PACK - FOIL»

to control the authenticity of a pack of cigarettes.

Security complex is based on the HIT-C® element and consists of two parts that do not work without each other - packs with a transparent window in the lid (visualizer) and foil from the inside. The buyer or controller observes through the visualizer the image on the foil inside a pack. When you open the lid, the image disappears.



Security complex «PACK - CIGARETTE»

to control the contents of a pack

Security complex is based on the HIT-C® element and consists of two parts that do not work without each other - a visualizer in the form of a box in a pack and cigarettes with the HIT-C® element inside. The buyer observes through the visualizer the image on cigarettes inside the pack. When you remove the cigarette, the image is disappear.



DELIVERY FORM:

In the form of foil hot stamping, self-adhesive seals and tear-off tapes.

Patented technology for pharmaceutical blisterpack authentication

Blister pack with HIT-M™ и HIT-C™ elements
(hidden image technology - monochrome and colo).

- Blisterpack hidden image fully invisible under daylight
- Simple authenticity control by buyer
- Hidden Color (HIT-C™) and Monochrome (HIT-M™) image
- Hidden color and object motion effect (HIT-C™)
- Overprintable element's surface
- Pressure and temperature durable element

Two ways of application:

1. Hidden image visualizer exists in cardboard package together with blister pack, and used for verification by comparing hidden image with printed information.



2. Blister pack and cardboard package form one verification system. Buyer sees hidden image on blisterpack through the window in cardboard package, disappearing after blister pack removal.

Technical specifications:

- Width - up to 250 mm;
- Stamping temperature - standart;
- Stamping pressure - standart.







EXPERT SOLUTION FOR AUTHENTIC SECURITY

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