

EMBEDDING ELEMENTS

Alp vision

Krypsos™ is a server-based authentication system which can include the Cryptoglyph packaging covert security solution as well as other security layers such as Fingerprint™ the AlpVision detection solution based on intrinsic characteristics of the product. Additional overt coding such as Bar Codes, 2D codes or OCR can also be included in Krypsos™ solution enabling brand owners to provide their supply chain with a single point of contact for both fraud detection and genuine product authentication. And it needs only standard electronics equipment such as a flatbed scanner, digital camera or camera phone. Based on, Fingerprint™ solution allows immediate authentication and identification of a products using a digital image of the original product stored in a secure server. All the microscopic prints on the product that come directly from manufacturing process are captured using a standard scanner. The digital image thus obtained is sent over the Internet to a secured server for later comparison when needed. The server contains the digital prints of genuine objects as well as any previously identified as counterfeits in the markets. Sophisticated mathematical algorithms allow comparison of the image of an object with millions of stored reference images within seconds.



28

SunChemical Security

Recently launched by SunChemical Security, the V400 Reader is a detector dedicated to Verigard™, its proprietary taggant (basically a chemical marker, security pigment or dye that is incorporated into an ink or varnish). This customizable hand held reading device detects the IR wavelength emitted by the taggant, which is incorporated into holograms and holographic foils. Thus, it allows instant authentication of the holograms at any time, anywhere, for example in a laboratory, warehouse, retail premises or border crossing. On of the benefits of the machine-readable holograms based on taggant technology is the fact that they use proprietary technology not available on the open market and cannot be sourced on the internet ! In addition, the presence of the taggant does not affect the overt features of hologram nor the ability to emboss holographic base.



Arjowiggins

Stes developed by Arjowiggins is a synthetic tamper evident substrate suitable for most self-adhesive security labels. This coated-like substrate contains UV visible security features that permit to identify the label and thereby the authenticity of the package and its content. Recyclable and easy to convert it offer resistance to water, grease, UV, oil, chemical, temperature (-/+60°C). The company proposes in its range of security solutions, the Spot-Tag, a taggant that can be printed on documents, packaging and products. This 3rd level security feature, which cannot be reproduced, is mixed with an ink or any standard varnish. It is detected using a high technology reader dedicated and easy to use. The reading protocol and the taggant component are secret. To enhance the security the reader calibration depends on the particular taggant.

