



Secure IR Encoding Technology

SIRE® (*secure infrared encoding*) provides a layer of covert and forensic security to address counterfeiting and fraud security challenges in virtually any industry.



SIRE® Technology can be integrated into:

Labels
Ticketing
ID & Travel Documents
Credit & Debit Cards
Custom Solutions

The Technology

SIRE® Technology applies laser imaging to an infrared (IR) optical layer, creating a high contrast IR readable response for “go / no go” authentication. Versatile in design, SIRE® allows for creativity in application, and optimal security in its utilization. The unique nature of the IR readable laser markings, combined with our complex IR layer, offers you an extremely high level of covert and forensic security protection.

The Solution

Madico has a proven record of producing top-quality, durable and optically clear laminates. By combining this expertise with our SIRE® Technology, our products offer a high value solution to the security market. The following two product solutions, while similar in function, are unique in design in order to meet a variety of security challenges.

Detekt® Over-laminates

IR encodable over-laminate, easily integrated into a variety of applications, including labels, tickets, and ID documents.

Detekt® Pre-Laminates

IR encodable pre-laminate that can be embedded in cards or documents, possessing superior tamper resistant adhesion on both sides.

The unique and covert IR imageable over-laminate and pre-laminate feature superior adhesion for tamper resistance. The SIRE® laser encoding resolution is capable of achieving 2000 dpi, resulting in leading-edge technology capable of covertly encoding large amounts of information, while maintaining high volume processing.

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