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New 3-in-1 Forensic Tool for Field Authentication



Graphic Security Systems Corporation (GSSC) and Aven Inc have developed *iDetector*TM, a three-in-one portable forensic device for capturing and verifying a range of first, second and third level security features, with in-field currency authentication one of the designated applications.

Aven is a manufacturer of the *iLoupe*, a digital camera attachment that functions as a digital portable field microscope. GSSC - the developer of scrambled indicia - offers digital anti-counterfeiting technologies based on the manipulation of printed lines and dot structures.

The *iDetector* is a special version of the *iLoupe*. It comprises a 7 mega-pixel digital camera with adjustable UV or LED light sources and three objective lenses which give a magnification range of 10x to 150x. Images can be captured of objects from 6mm down to 10 microns. The three functions – lighting, magnification and digital camera – can be quickly interchanged.

In addition to UV and IR-printed features, holograms and halftone screens, *iDetector* detects GSSC's proprietary hidden images that can be embedded into these features. These include *Stealth SI*[®], a covert digital security feature that

cannot be scanned with sufficient detail to reproduce the hidden artwork. GSSC's digital decoding software, however, can recreate the images from the small bits of information present in the scan of the original and match this against the images captured by the *iDetector* to determine authenticity.

According to GSSC, the *iDetector* is a world first which provides law enforcers with a powerful tool for in-field digital authentication of a variety of security features already widely used in currency and other secure documents.