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# PRESS RELEASE

## **LEPTON-id INTRODUCES ADVANCED SECURITY THREAD TECHNOLOGY FOR USE IN COMMERCIAL SEWING MACHINES THAT CAN BE DETECTED BY OPTICAL MEANS.**

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**HILLSBOROUGH, NJ — December 7, 2015 — Lepton-id, a wholly owned subsidiary of ZBA, Inc.**, a leader in bar code, wireless data collection and custom innovative technology development for Brand Protection applications has announced a security thread product line to thwart counterfeit apparel. Lepton-id Inc. proceeded to develop technologies to prevent counterfeiting with its security thread that is detectable with Lepton-id optical detectors.

Lepton-id has integrated an optically responsive material into the thread. The embedded material is completely undetectable by the human eye or UV detection systems. The thread can be utilized in standard sewing applications and can be customized as required.

In addition, the company offers low cost method of detecting such features. Through a special process, the optical security taggants are integrated into standard sewing thread. With respect to the user of the threads, there is no difference in appearance, flexibility, and tensile strength of the thread.

The microscopic sized taggants are trapped within the fibers of the thread material and resist being washed out. The thread is capable of being used in any sewing machine that would normally use that particular sized denier of thread (No clogging of thread going through sewing process). In fact the only way to



remove the taggant from the specific garment is to cut out all of the thread that was used in making the garment in the first place.

Lepton-id covert product thread offering verifies authentication and provides forensic proof, which addresses the customers #1 problem "Brand Protection."

Lepton id sells two types of standard taggant detectors that can be used to identify the threads. They are the VI1170 and the VL6300. The VI1170 is used to detect the taggants integrated within the thread. The VL6300 can actually detect the full hidden image formed by the sewing of the thread into a garment that is being protected such as a company logo. It would be up to an inspector to know the location of the thread that has been loaded with the taggant so he or (she) may inspect the garment to see if the threads are indeed genuine simply by the fact that the specific threads at a pre-defined location are detected by the aforementioned devices.

The actual thread with integrated taggant is easily detected with Lepton-id's standard detectors (Figure 1).



Figure 1

Technological protection is seen to be the best way to avoid the problem in counterfeit apparel, divergent product and brand protection.

Lepton-id will offer this technology in various business structures from technology licensing to direct OEM sales depending on a customer's critical needs to protect their brand integrity. Quick time to market and quick time to volume make Lepton-id the perfect solution for any size company.



Lepton-id has been working with proprietary versions of these technologies and now offers both standard and customized versions.

ZBA, an Auto-id company founded in 1994 develops both hardware and software bar code scanners with focus on custom application for Medical and Military markets. As part of ZBA's custom auto-id development, customers expanded ZBA into Anti-Counterfeit solutions in 1996 based on custom technologies developed and patented over the years.

With the large opportunity in anti-counterfeit solutions, ZBA set up a new division called Lepton-id to focus its efforts. As the name infers Lepton-id uses microscopic-particles (range from nanometer to 25 micron) as building blocks, real time detection and verification methods that are the basis for our identification and anti-counterfeit technologies. Lepton-id is now marketing, commercializing its leadership technologies as turn-key solutions to thwart the threat of counterfeits and security.

For additional information concerning Lepton-id products and services, please send an email to [sales@lepton-id.com](mailto:sales@lepton-id.com) or visit [www.lepton-id.com](http://www.lepton-id.com) or call Tom Bisconti at: 1-908-359-2070.