

## Safeguarding aircraft against laser strikes

### Randall Fitzgerald, President and CEO, Profound Technologies, Inc

WARNER ROBINS, GA.; December 4, 2016 – Profound Technologies, Inc. (a veteran-owned company) will introduce the first mobile device to record aircraft laser strikes as well as provide early warning to approaching aircraft.

In 2015, there were 7,703 laser illumination incidents reported by pilots to the U.S. Federal Aviation Administration. This is a significant increase over the past four years, which had hovered around 3,500-4,000 incidents per year. It is estimated that in 2016 there will be over 8,500 reported illuminations. (Source: [www.laserpointersafety.com](http://www.laserpointersafety.com)) For additional information on the dangers of laser strikes, follow the link [www.fbi.gov/news/stories/protecting-aircraft-from-lasers](http://www.fbi.gov/news/stories/protecting-aircraft-from-lasers)

Profound Technologies, a new technology firm, has acquired a license to develop and market the technology which is a Laser Event Recorder App (LERApp) from the Defense Science and Technology Laboratory (Dstl), a division of the UK Minister of Defense.

Scientists at the Defense Science and Technology Laboratory (Dstl) have developed an innovative app that analyses laser dazzle events, making it quicker and easier for the police to arrest and prosecute offenders, deter the targeting of aircraft and allow pilots to take steps to prevent themselves from being dazzled.

Laser Event Recorder app (LERApp) has been developed using an iPhone. It utilizes the inbuilt camera, GPS and connectivity to record, analyze and communicate details of the incident. The app can be modified for use on Android phones and other platforms.



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The key benefits of the LERApp are:

- Low cost solution – pilots can use their own phone.
- Easy and intuitive to use.
- Allows pilots to take steps to prevent them being dazzled.
- Makes it easier for the police to identify arrest and prosecute offenders.
- Deters people from using lasers irresponsibly.

With this license, future development will include adding an early warning feature that will alert other aircraft approaching (in real time) an area recently struck by a laser to avoid the area and/or

take necessary precautions (like putting on protective eyewear). The second Phase will include the ability to identify the location of the perpetrator and report to law enforcement.

Commenting on today's announcement the Dstl scientist who developed the LERapp, Craig Williamson, said:

“The LERapp has the potential to significantly improve aviation safety. It is another example of the innovative and exciting work that Dstl is doing. Like much of our work, there are clear uses outside the military and security environments. The Easy Access IP scheme is a great opportunity to build new links with industry, and reflects our increasing openness to partnering and collaboration.”

Profound Technologies is excited about the opportunity to commercialize and exploit the technology developed by DSTL. The Easy Access IP program levels the playing field for smaller entities with fewer resources to compete and enter the marketplace. We believe that the technology is much needed and our goal will be to make it an industry standard from a safety standpoint.

Profound Technologies, based in Warner Robins, Ga., was founded in 2001. Through the parent company and its subsidiary, Coated Preservative Products, LLC, the company seeks to develop and/or acquire technologies in the Life Science, Security and Defense, Aviation, Automotive and Software sectors - See more at: [www.profoundtechnologiesinc.net](http://www.profoundtechnologiesinc.net)