

SmartPower Boosts Epirus' Leonidas Drone-Busting Directed Energy System



Epirus' Leonidas directed-energy defense system, displayed in scale model form. *SOLARES PHOTOGRAPHY*

NATIONAL HARBOR, Md. – Epirus, a Southern California startup, has incorporated its SmartPower concept into a directed-energy system capable of disabling the electronics of threats such as drones, says Andy Lowery, the company's chief product officer.

The company, located in the VIP Lounge near the Prince George's Exhibit Hall, "started to take a look at embedded systems, especially when energy conversion was the process," Lowery said. That means things like microwaves and lasers, where power is converted.

"We decided to see if we couldn't digitize them and basically create a digital mind that controls the analog circuits that do the conversion," he said. "We were able to very meaningfully improve the performance of those conversion circuits" while also solving heating issues that dogged earlier versions.

One result, on display in model form, is Leonidas, which the company describes as "an electronics system with the power and precision to neutralize a single [drone] system in tight, crowded spaces or disable multiple threats across a wide area."

It's not through traditional jamming, Lowery said, but instead "it's literally just zapping it, like with such a high electrical field that the electronics can't work."

It's also scalable, in the form of Leonidas Pod, a much

smaller version that could be carried by drones and deployed from ships; that system has already had a sale.

Epirus, in existence for only about three years, is moving fast.

“We’re on our third-generation system ... and we’re ready to start operationally deploying,” Lowery said. “We’ve had four to five companies express interest in being pilot customers on the defense side, looking to deploy upwards to half a dozen systems over the next 12 months or so, of the big ones.”