EOS Defense Systems USA Inc.

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EOS Defense Systems USA Inc., based in Huntsville, Alabama, is a world leader in remote weapons station design, development and production. Our product incorporates advanced electro-optic applications based on core technologies and precision mechanisms.

The precision that makes the EOS family of remote weapons stations unique derives from a gimbal that integrates proprietary algorithms that compensate for atmospheric conditions, gun and platform attributes, as well as ammunition characteristics. The resulting system delivers dispersion of less than 1 milliradian at extended ranges. This level of performance is enabled by our sensor unit, which is an advanced, compact, day/night, targeting and aiming system based on cooled thermal imager technology.

For over 20 years, EOS has produced sensors that are hermetically sealed in a single submersible unit that ensures boresight retention to 0.1 milliradian for the lifetime of the product. The sensor unit incorporates both a color day imaging system and a second-generation forward-looking infrared camera that provides target detection beyond 12 kilometers, recognition greater than 5 km and identification beyond 4 km. This level of precision is indispensable when targeting small, highly maneuverable targets like Class I unmanned aerial systems. Previous counter-UAS exercises have proven that EOS remote weapons stations can repeatedly shoot down maneuvering UASs at ranges beyond 350 meters.

EOS recently introduced the R800S remote weapons station at a successful live-fire demonstration. The heavy gimbal R800S was developed in response to the growing need for greater lethality on lighter platforms by mounting the Mk44S 30 mm x 173 mm cannon, benefiting from the capabilities delivered in the available fused rounds. The R800S is dual-weapon capable with an optional subcaliber coax, adding extra lethality. The R800S, with weapons and ammunition, weighs less than 1,800 pounds above the roofline and has a height of 41 inches. This system can carry additional ballistic protection up to STANAG Level II. Modern armored vehicles can now bring advanced, medium-caliber firepower to the battlefield without the limitations of a large manned turret.

EOS Defense Systems USA Inc.'s R800S remote weapons station delivers the lethality of a full-size medium-caliber turret at a significantly lower weight.
ALLEN MATTHEWS PHOTOGRAPHY

The medium-weight class R400S remote weapons station is capable of mounting machine guns from 5.56 mm to .50 caliber and other weapons like the 40 mm Automatic Grenade Launcher, the M134 7.62 mm Gatling Gun and the M230LF/XM914 30 mm x 113 mm cannon. In the dual configuration, the R400S can mount a 5.56 or 7.62 mm coaxial machine gun. Whatever the mix of weapons, the R400 delivers precise, medium-caliber firepower from a remote weapons station that weighs less than 1,000 pounds above the roofline (including weapons and ammunition), at a height of only 35 inches. The R400S has been mounted, and fired, from a range of platforms like the light Toyota Land Cruiser and Polaris DAGOR, to heavy robotic platforms, Stryker combat vehicles and Abrams tanks.

The R150 is the world's lightest remote weapons station, capable of mounting and firing the M2HB .50-caliber heavy machine gun with precision, on the move and over long range. The reduced mass of the R150 enables it to be installed on a wider range of light tactical and logistics vehicles where the roof structure may not support the full weight of a larger remote weapons station. The R150 provides excellent self-defense capabilities for any platform when mounting a light, medium or heavy machine gun ranging from 5.56 mm to .50 caliber. The R150 weighs 187 pounds before adding weapons and ammunition.

In February, EOS successfully fired two Javelin anti-tank guided missiles in between 30 mm cannon engagements, demonstrating the interoperability of the two weapons from our remote weapons station. Retired Brig. Gen. Philip Coker, CEO of EOS, said, "The ability to effectively counter any maneuver threat on the modern battlefield is a significant advantage to an Army that has to deploy to any fight."

EOS has developed the capability to mount other third effectors, such as surface-to-air missiles and counter-UAS launchers.