

The future of electro-optical systems for armored vehicles: What's new at EVPÚ Defence?

This year marks 20 years since EVPÚ Defence started to produce its first pan tilt devices and monitoring systems. Thanks to an exceptionally flexible approach to the needs of its clients, the company soon established itself on both the Czech and foreign markets. Since then, EVPÚ Defence has entered into successful long-term cooperation not only with the Czech Police and Army, but also with Flir Systems (now Teledyne Flir), one of the world's largest defence and security players. In recent years, it has been gradually expanding its product portfolio to include electro-optical devices for military applications.



EVPÚ Defence regularly participates in the IDET defence and security exhibition – in fact, this tradition started back in 2007, when the company first exhibited their products in Brno. At this year's IDET edition, visitors will be able to see EVPÚ Defence's innovative products designed to increase the safety and efficiency of armored vehicle crews.

The year 2019 saw EVPÚ Defence's CMS-1 commander sight winning the prestigious Silver IDET NEWS award. This year there is a new version of the multisensor system which allows the commander of an armored vehicle to get a complete overview of the situation on the battlefield using a day camera, a cooled thermal imaging camera and an eye-safe laser rangefinder. The new modification of the system offers a higher level of ballistic resistance and a high-quality video thanks to its use of a HD camera. Remote controlled weapon stations are also part of EVPÚ Defence's recent focus on the

military segment. It is with this type of product that the company will try to build on its previous success at the IDET NEWS awards. The light modular concept of the new weapon stations, produced in Uherské Hradiště under the names MANTIS and MANTIS MINI, allows their installation on a wide range of armored vehicles or vessels and thus makes them suitable for both land and sea applications. Using these systems, the operator can monitor the vehicle surroundings and search for and fire at ground and low-flying air targets. All these tasks are controlled from the operator's workstation inside the vehicle which significantly reduces the overall risk that the crew is exposed to. Reconnaissance, aiming and shooting tasks are performed using an electro-optical container which consists of a day camera, a thermal imaging camera and a laser rangefinder, with the possible addition of an aiming camera. The combination of these sensors in a sealed and rugged environmental enclosure ensures full functionality day and night, in combat conditions and in any weather.

EVPÚ Defence now introduces remote controlled weapon stations that are more compact, lighter and offer more accurate positioning and fire control. They will be available in two versions for the integration of 7.62 mm and 12.7 mm machine guns.

EVPÚ Defence produces not only complete weapon stations, but also several different types of electro-optical containers, also called gunner sights, which are designed to be integrated into weapon stations. These devices are used in short, medium and long range applications. Sensors housed in a hardened vibration-resistant housing ensu-

re the system's ability to see in all weather and light conditions. The great advantage of EVPÚ Defence's gunner sights is their compact size and universal dimensions, which allow them to be fitted with various combinations of sensors.

Protective systems designed for armored vehicles include the GATRIA modular awareness system and the LAWAREC laser and radar irradiation detection system. The GATRIA system offers combat vehicle commanders an unlimited situational overview, which plays a crucial role in all ground combat operations, a clear and sharp image day and night and reliable protection of the crew and vehicle. The LAWAREC system protects the vehicle from observation and recognition by laser and microwave means as well as laser-aimed and guided weapon systems.

Visitors will be able to see not only the above-mentioned systems and products, but also a number of other electro-optical devices during the IDET exhibition, which takes place from 6 to 8 October 2021. The EVPÚ Defence team is looking forward to your visit!

