

MSPO 2019: ARMED ROBOTS AND OTHER SYSTEMS. ŁUKASIEWICZ RN - PIAP BOOTH.

Sieć Badawcza Łukasiewicz - Przemysłowy Instytut Automatyki i Pomiarów [Łukasiewicz Research Network - Industrial Research Institute for Automation and Measurements] is showcasing its latest solutions in the domain of robotics at the MSPO 2019 exhibition.

A special part of the stand has been prepared for the visitors to try out the TRM thrown robot, and to see how it remotely handles reconnaissance in narrow and dark spaces. TRM has been designed to penetrate areas that may be hard to access, such as ventilation ducts or cellars.

The robot is a response to threats involved in building/areas reconnaissance activities carried out by the uniformed services. It may be deployed inside the building or outdoors, to deliver optical or audio data remotely, to the operator staying at a safe distance. The robot can hit the ground when dropped from a level of 9 meters (onto a hard surface), and maintain full usability.

The offer presented in Kielce also features the MONOS mobile digital direct X-ray system manufactured by LOGOS Imaging and mounted onto the PIAP GRYF robot that also features RDS/CSL VIPER recoilless disruptor.

Perkun

PIAP, jointly with Telesystem Mesko, is also presenting its autonomous combat air defence system - ASBOP Perkun. It is a tracked robot armed and integrated with the Polish Grom/Piorun MANPADS. The system offers high tactical mobility with rapid reaction to emerging airborne threats, such as cruise missiles, UAVs, helicopters and MRCA.

The robot may be deployed in rough terrain, and in the areas where human presence may be troublesome. The robot also features its own detection measures. It has been tailored to use IFF equipment as well. Targets may be indicated by an external source (C2 solution) radar coupled with the system, IR warning receiver or with the use of the robot's own optoelectronic sensors. At the same time the operator may remain in safe place, far from the position of the robot. He may also coordinate several robots simultaneously.

ŁUKASIEWICZ Research Network - Industrial Research Institute for Automation and Measurements [PIAP] manufactures Polish mobile robots used for C-IED applications and reconnaissance purposes. The Institute has been founded in 1965, it has been a part of the ŁUKASIEWICZ network since 2019. The institute also works on automation and robotizing of production lines, factories, 3D printing and space technologies, it conducts research and R&D projects and develops, manufactures and sells mobile robots to 20 states all around the world.