

French and Israeli Customers Procure Łukasiewicz-PIAP TRM Robots

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Image Credit: Paweł Kucharski "Travart"

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DOTYCZY:

PIAP ŁUKASIEWICZ-PIAP ŁUKASIEWICZ RESEARCH NETWORK ROBOTS

INDUSTRIAL RESEARCH INSTITUTE FOR AUTOMATION AND MEASUREMENTS TRM ROBOT TACTICAL THROWN ROBOT

FRANCE ISRAEL UNIFORMED SERVICES POLICE COUNTER-TERRORIST UNITS

POLISH POLICE INDEPENDENT COUNTER TERRORIST UNIT

TRM tactical thrown robots have been delivered to Israeli and French uniformed services, as the Łukasiewicz Research Network - Industrial Research Institute for Automation and Measurements, PIAP, announced. The release mentions the fact

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that the deliveries have been successfully completed despite the limitations imposed by the COVID-19 pandemic. TRM robots are used, for instance, by the counter-terrorist units of the Polish Police.

TRM Robots would be received by Israeli and French services - the officers have ordered them in a configuration capable of carrying and detonating flashbang grenades. The French and Israeli services would join the growing user group of the TRM system. The robots in question have already been received by the G.I.S. (Gruppo di Intervento Speciale) unit of the Italian Carabinieri.

TRM is an asset that is usable in counter/anti-terrorist scenarios. The product constitutes a response to dangers involved in reconnaissance activities carried out by the special units, before executing the operation.



Image Credit: Łukasiewicz-PIAP

It is a light 1.5 kg portable robot that makes it possible to gather intelligence within the given area/facility, providing the user with extra A/V data and allowing him to detect IEDs and/or other hazardous objects thus improving the levels of safety for the team of operators involved in the given activity. What's even more important, TRM can also be used as a support measure for larger bomb disposal robots, acting as an extra pair of eyes for them for inspecting the suspicious objects or IEDs with the use of another camera, providing another camera angle. The video feed can be transmitted both to the bomb disposal vehicle, as well as to the command center of the operation.

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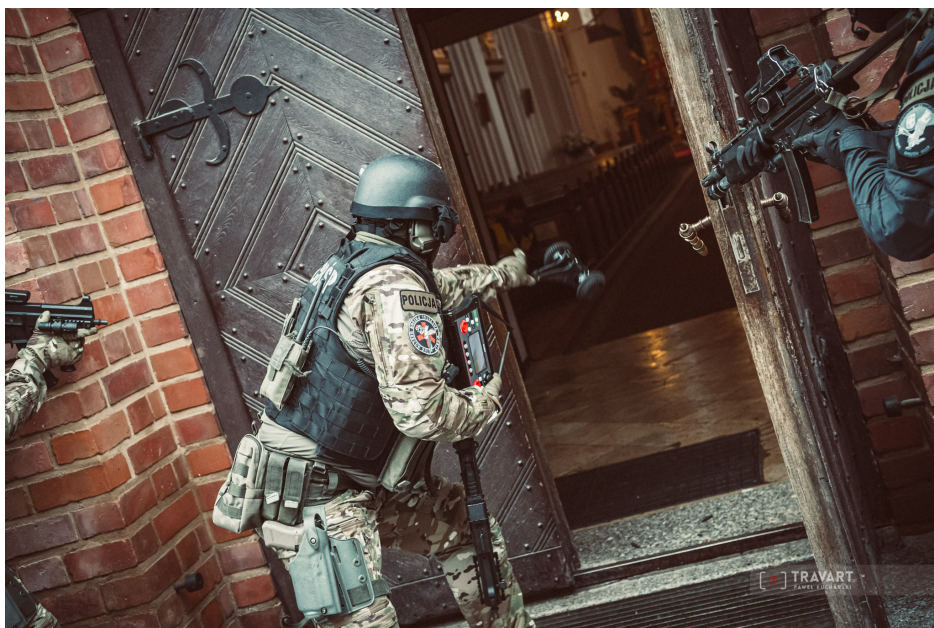


Image Credit: Paweł Kucharski "Travart"

TRM is also resistant to mechanical damage, as it can withstand a fall from a height of 9 meters, onto a hard surface. The above makes it possible for the operator to insert the robot safely, as the control system works within a range from 30 meters in the buildings, up to 350 meters in open spaces.

The TRM's main element is its cylindrical body containing a silent dual electric motor-based drive system, with one motor for each wheel, and two rubberized wheels placed on both sides of the robot. The wheel shape, the tires, and the material provide a proper grip for the robot offroad and on slippery surfaces (such as stone floors). The robot is, at the same time, agile and silent.



Image Credit: Łukasiewicz-PIAP

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The body also features a camera, microphone, and visible/IR spectra illumination systems. The user can smoothly adjust the camera FOV, within the full 360-degrees range, without any extra tools required. This is done thanks to a rotating stabilizer. Its position can be adjusted in relation to the horizontal axis of the body. Thanks to the use of a solution as such the camera can be set so that it looks vertically upwards, for instance when inspecting the chassis of a suspicious vehicle.

The TRM robot can also carry flashbang grenades. It could be used then to introduce chaos among and disorganize the potential adversary.



Control panel of the TRM robot. Image Credit: Paweł Kucharski "Travart"

TRM is controlled via a control panel with a joystick, volume control, and speed control, a 4.3-inch display, and two foldable antennas. It has also been fitted with an ability to digitally record imagery and audio on an SD card (up to 32 GB). The recorded data can be copied to external carriers via a micro USB port. The control panel also features a speaker that plays audio recorded via the TRM microphone. The headphone jack can also be used instead. A single panel can be used to control up to 3 robots.



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