# Havelsan opens counter-terrorism training showcase

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Havelsan has recently established a counter-terrorism training and simulation technologies centre to showcase a number of live and virtual training solutions, including a precise tracking system for urban operations training. The centre, at Havelsan's Ankara headquarters, includes a demonstration three-building instrumented training site for urban operations that is typical of eastern Turkey and an indoor virtual training facility.

The site instrumentation includes Havelsan's radio frequency identification (RFID)-based tracking system, which uses RFID tags embedded in the paving blocks. Each trainee has an RFID receiver attached to a foot, which transmits the location to exercise control (EXCON). The accuracy of the tracking system depends on the density of the tag layout, but a Havelsan representative told *Jane's* that with a tag in each paving block this could be reduced to 50 cm.

Havelsan has incorporated a laser-based tactical engagement simulation (TES) system from Tübitak Bilgem, the Turkish Research Centre for Informatics and Information Security Technologies. Taksis has been designed specifically for urban training for special forces and incorporates weapon-mounted laser projectors and detector harnesses.

Small arms are equipped with a muzzle-mounted laser with a recoil mechanism and noise generator in the magazine. This also enables the number of rounds fired to be tracked whilst weapon malfunctions can be remotely generated. Hand grenades, booby traps, and blast bombs are realistically emulated with noise and effects.

Detection harnesses cover all main parts of the body and limbs and include a maximum of 84 hit points. When a hit is registered it generates a flashing light-emitting diode (LED) and a vibrating warning. If the hit would disable the wearer it also locks the personal weapon. The suit also measures pulse rate and uses wireless communications for exercise monitoring.

The tracking system is used in conjunction with an IP-based camera system, which can show up to 16 cameras simultaneously on a single monitor. Cameras can also be mounted on trainees' helmets and there is a smart tracking system that enables cameras to follow a specific individual.

The live training is monitored in EXCON, using 2-D and 3-D displays and the video cameras. All activity is recorded for after-action review using Havelsan's EXCON software.

A Havelsan representative told *Jane's* that negotiations are currently in progress with the Turkish Gendarmerie for the system.

The centre's indoor facility enables Havelsan to demonstrate the dismounted soldier virtual training system from its US subsidiary Quantum 3D, which was acquired by Havelsan in 2016. This provides a fully-immersive environment for small unit training using head-mounted displays and instrumented simulated weapons. Up to four individuals can train in a single system, and multiple systems can be linked together.

**COMMENT**

Establishing a demonstration capability like this is an indication that Havelsan sees a market opportunity for its products, both domestically and abroad, even though there are a number of well-established alternatives available.



*The demonstration-instrumented training site for urban operations at Havelsan's headquarters in Ankara. Each of the paving blocks has an RFID tag embedded for accurate tracking of trainees. (Havelsan)*

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