VEX

HUNGARIAN DEFENCE EXPORT AGENCY LTD.

DEFENCE PRODUCTS AND SERVICES

HUNGARY

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PROLOGUE

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After many years of considering the defence industry to be the exclusive domain of NATO's most powerful nations, the Hungarian Government has made a strategic decision to revitalize its domestic defence industry.

The goal is to restore it to the level of its historical peak, when Hungary was a significant manufacturer of armoured fighting vehicles, small arms, heavy firearms, and mortar ammunition.

The products we develop are not merely for the protection of our homeland and our allies from a range of threats, but are also intended for a diverse international clientele. By 2030, the Hungarian Government aims to establish one of the most sophisticated defence industries in the Central European region.

The Hungarian Defence Export Agency (VEX), a 100% state-owned company, is at the forefront of this effort. Our mission is to re-establish Hungary's position as a regional leader in the export of arms and other defence equipment. We serve as a key partner for governments and organizations seeking reliable, high-quality defence solutions.

The partner companies of VEX have undergone a rigorous selection process. They were carefully vetted by military and public administration experts, and are supported by a strong governmental framework. This ensures that they represent the pinnacle of Hungary's defence industry in terms of design and manufacturing. The products featured in our catalogue are a direct results of this collaboration, developed with the invaluable testing and advisory capabilities of the Hungarian Armed Forces.

VEX is proud to recommend the items and devices in our catalogue to all defence-related organizations, armed forces, and individual users. We are well-equipped to facilitate Government-to-Government (G2G) transactions, provide comprehensive support for public tender applications, and forge partnerships within the supply chains of various Original Equipment Manufacturers (OEMs).

Thank you for considering the Hungarian Defence Export Agency as your trusted partner for procuring world-class defence equipment.

RÓBERT PACHNER
CEO, HUNGARIAN DEFENCE EXPORT AGENCY

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AVIATION | UAS

AIR FORCE SYSTEMS

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AERO L-39 SKYFOX

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NEXT GENERATION JET TRAINER

DETAILS

Our primary focus is on the design, development, production, certification, testing, logistic support and upgrading of military jet aircraft.

➤ Excellent manoeuvrability and handling characteristics
➤ Increased lifespan – up to 15,000 flight hours
➤ Low maintenance demands on both manpower and equipment
➤ Proven design concept with more than 5,000,000 flight hours accumulated by the fleet
➤ State-of-the-art design features
➤ Low fuel consumption
➤ The armed version of the L-39 Skyfox multirole aircraft can be equipped with five hardpoints for a variety of unguided and guided weapons and payloads
➤ Suspended loads up to 1650 kg

KEY FEATURES

Empty weight	3280 kg
Maximum take-off weight	5600 kg
Internal fuel capacity	1150 kg
External fuel tanks capacity	570 kg
Maximum speed	900 km/h (490 KCAS)
Load factor (G)	+8/–4G
Maximum range clean	1963 km
Maximum endurance with external fuel tanks	4 h 45 min
Maximum airframe service life	15,000 FH

FLYRANGER 5 SECOP X4 SECOP SECOP X4 MINI

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The FlyRanger 5 is a fixed-wing VTOL UAV system designed for efficient operations in remote and difficult-to-access areas. Its vertical take-off and landing capability eliminates the need for runways or prepared launch zones, making it highly versatile in the field.

The hybrid design ensures energy-efficient performance, extended flight endurance, and broad mission adaptability – particularly in infrastructure monitoring and linear inspections such as pipelines, power lines, and railways.

SECOP X4 MINI

The SECOP X4 MINI is a compact and foldable reconnaissance drone developed for tactical use in defence and law enforcement. Its lightweight, backpack-friendly design allows for rapid deployment in confined or high-risk environments. Equipped with advanced multi-sensor cameras, it enables target tracking, object recognition, and precise visual intelligence both day and night. Built to perform in adverse weather conditions, the system ensures reliable situational awareness and smooth mission execution.

FLYRANGER 5

SECOP X4

The SECOP X4 is a high-performance multirotor UAV designed for demanding defence, industrial, and law enforcement missions. It combines long flight endurance with agile manoeuvrability, making it ideal for reconnaissance, surveillance and diagnostics. With multi-sensor capabilities including HD cameras, LIDAR and thermal imaging, the system ensures accurate real-time data in all conditions. It supports diverse payloads and autonomous functions, delivering reliable results in mission-critical scenarios.

FUSION CADET
MULTIPURPOSE TRAINING AIRCRAFT

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DETAILS

The Fusion Cadet is a multipurpose training aircraft. The side-by-side cockpit arrangement, the wide, ergonomically designed glass canopy, the ballistic recovery system and the low operating costs make the aircraft perfectly suited for basic pilot training.

Beyond the basic instrumentation, the Fusion Cadet is also available with advanced military instrumentation (MIL certified avionics, fits the L-39 NG fighter jet's EFIS).

The reinforced wing structure allows the aircraft to be fitted with additional equipment and to be used for various special operations and instructions.

KEY FEATURES

Wingspan	8.44 m
Length	6.62 m
Height	2.4 m
Cockpit width	1.17 m
Maximum take-off weight	600 kg
Maximum take-off distance	150–250 m
Climb rate	4.5–6 m/s
Maximum operating altitude	650 m
Stall speed with flaps	83 km/h CAS (LDG Config.)
Maximum cruise speed	214–256 km/h TAS
Fuel consumption	16–21 l/h
Manufacturer rotax	912–916 IS, ULS
Power	100–160 HP

FUSION SENTINEL

CARBON-COMPOSITE AIRCRAFT DESIGNED FOR AERIAL SURVEILLANCE

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KEY FEATURES

Wingspan	8.44 m
Length	6.62 m
Height	2.4 m
Cockpit width	1.17 m
Maximum take-off weight	600 kg
Take-off distance	150–250 m
Climb rate	4.5–6 m/s
Maximum operating altitude	3650 m
Stall speed with flaps	83 km/h CAS (LDG Config.)
Maximum cruise speed	214–256 km/h TAS
Fuel consumption	16–21 l/h
Manufacturer rotax	912–916 IS, ULS
Power:	100–160 HP

DETAILS

The Fusion Sentinel is a carbon-composite aircraft designed for aerial surveillance. Equipped with HD and thermal imaging, gyro-stabilized gimbal, and real-time encrypted data transmission up to 100 km, it ensures precision monitoring day and night. Ideal for border patrol, reconnaissance, and environmental missions.
The Sentinel offers rapid deployment, low operational cost, and versatile payload integration in demanding operational environments.

HC02

LIGHTWEIGHT HELICOPTER

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DETAILS

The HC02 is the most versatile two-seated lightweight helicopter with cutting-edge engineering features, like the electronic rescue system and the highly efficient rotor system. Its unique mechanical design provides a cost-effective solution in several fields of use such as:
▸ Entry-level/Basic flight training
▸ Surveillance applications
▸ Patrolling.

The HC02 is every pilot's dream, not just because of its design, but also because its handling. Its excellent stability and reliability showcase the HungaroCopter's high standards, utilizing the best features of its class within a single helicopter.

KEY FEATURES

Rotor diameter	7 m
Empty weight	349 kg with ERS
Max take-off weight	600 kg
Endurance	3 hours
Maximum cruise speed	145 km/h (94 KTAS)
Never exceed speed (Vne)	209 km/h (110 KTAS)
Climb rate	7.62 m/s
Power	131 HP
Hover ceiling IGE	2750 m
Hover ceiling OGE	2250 m

HC02.UAV
HC02.SIM

HELICOPTER DRONE

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DETAILS

HC02.UAV

Based on the HC02, the HC02.UAV eliminates human risk and extends flight endurance in mission-critical tasks like:

▸▸ Surveillance

▸▸ Attack

▸▸ Behind-the-border logistics and rescue.

Due to in-house design and production including mechanical, electrical components and software, every customer-specific modification and customisation is possible if needed. Multiple communication channels are available, like LOS (Low Orbit Satellite), encrypted, mesh-capable direct RF link with a backup 4G/LTE connection.

HC02.SIM – Remote controller

One of the most crucial parts of UAV operation is training. The HC02.SIM is based on a realistic physical engine with almost indistinguishable real-life detailed VR graphics, moreover a 6 dimension of freedom motion platform to feel every movement like an onboard pilot. Besides the training functionality, the HC02.SIM is the remote controller of the HC02.UAV. Thus, the well-known training environment bestows confidence.

KEY FEATURES

Rotor diameter	7 m
Empty weight	349 kg with ERS
Maximum take-off weight	600kg
Endurance	3 hours
Cruise speed	145 km/h (94 KTAS)
Never exceed speed (Vne)	209 km/h (110 KTAS)
Climb rate	8.128 m/s
Power	131 HP
Hover ceiling IGE	2750 m
Hover ceiling OGE	2250 m

PROTAR

HIGH-SPEED MULTIROLE AERIAL TARGET

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KEY FEATURES

Wingspan	2.3 m
Length	2.5 m
Engine	400 N jet engine
Speed range	100–500 km/h
Radio range	75 km
Endurance	60 min
Op. threshold	6000 m
MTOW	65 kg
Payload capacity	5 kg
Launch	catapult
Recovery	parachute
Augmentation	Luneburg Lens, ADSB, Smoke, IR, Acoustic MDI

DETAILS

Excellent training solution for modern anti-aircraft systems:

▸▸ Gas turbine-powered UAV for threat simulation and advanced training, also available as a standalone drone system

▸▸ Designed with further development potential for SEAD decoy and loitering munition roles

▸▸ Formation flight capability

▸▸ Modular payloads: radar reflectors, IR, smoke, MDI

▸▸ Rugged, all-weather design for land and maritime use

▸▸ Catapult launch\& parachute recovery.

UAV Command and Electronic Warfare Platform

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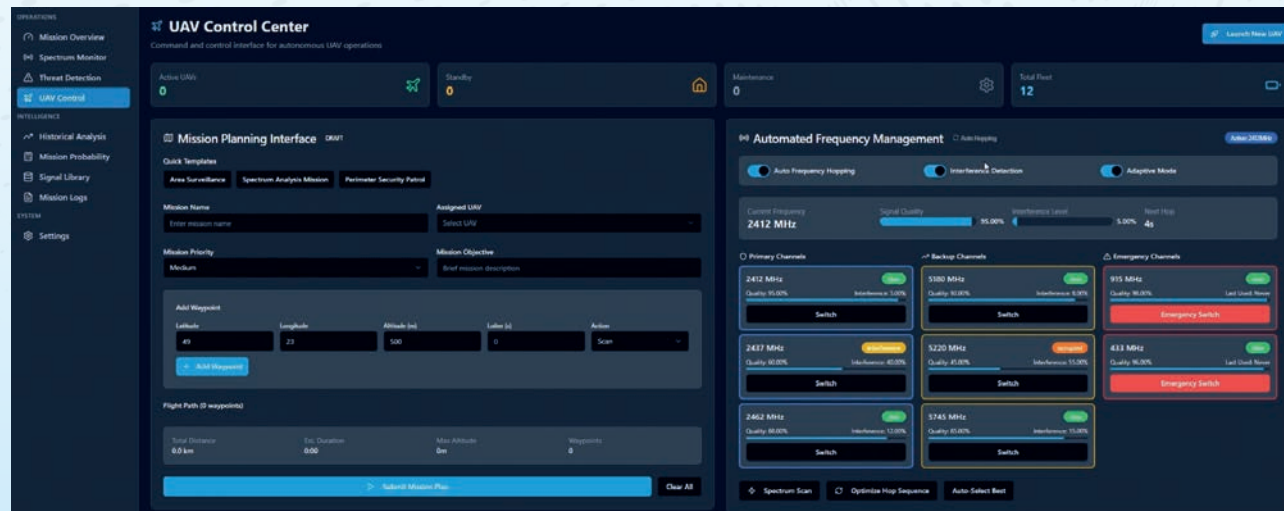
KEY FEATURES

• **COMMAND AND AUTONOMOUS FLEET MANAGEMENT:** Our distributed platform delivers a secure, modular command interface for coordinating multiple autonomous UAVs in a unified C4ISR environment. It can run as a stand-alone suite or integrate seamlessly with existing infrastructure, with each module also available individually. Predictive threat modeling and automated countermeasure deployment let every UAV adapt instantly to changing conditions, ensuring resilient command and fleet management across distributed operations.

• **ADAPTIVE FREQUENCY HOPPING FOR ANTI-JAMMING PROTECTION:** To mitigate the risk of signal jamming and interception, the system features adaptive frequency hopping. Automatic hopping is enabled by default, but operators can also manually adjust communication frequencies to suit specific threat environments.

• **THREAT DETECTION AND PREDICTION WITH SENSOR FUSION:** Based on integrated data from multiple external sensors, AI-driven pattern recognition algorithms identify and predict threats. This enables real-time alerts and precise, targeted countermeasures—enhancing responsiveness in complex electromagnetic environments.

By combining autonomous UAV control, electronic warfare capabilities, and intelligent threat response, our platform offers a comprehensive solution for securing unmanned operations in contested environments.
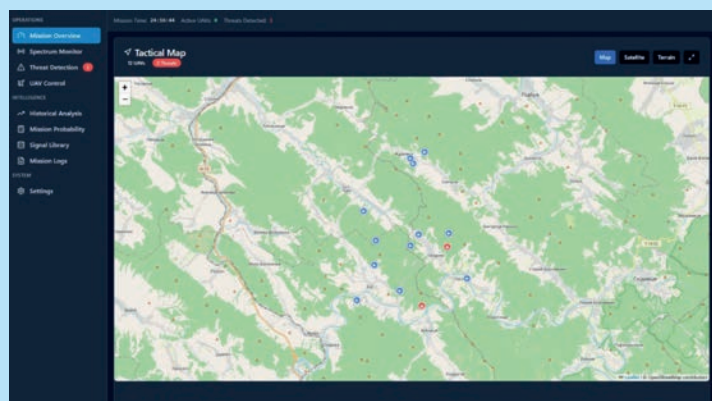
DETAILS

The company's drone control platform is designed for the secure, autonomous operation of UAV fleets in defense and EW use cases. It integrates real-time situational awareness, automated threat detection, and advanced mission planning into a single, unified system.

UAV Visual Intelligence Upgrade Kit

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UAV VISUAL INTELLIGENCE UPGRADE KIT

KEY FEATURES

• **1360-DEGREE IMMERSIVE PILOT INTERFACE:** We can also create a fully immersive 360-degree virtual environment for the remote pilot, streaming live spherical video from the drone and delivering a head-tracked, real-time cockpit view that allows intuitive first-person control of the aircraft.

• **OBJECT IDENTIFICATION:** The system performs real-time object detection, identification, and classification—delivering actionable insights from a single pass.

• **BEHAVIOR ANALYSIS & PREDICTION:** Video analytics extract motion patterns (e.g., gait, flight behavior) to flag anomalous or suspicious activity. Predictive algorithms issue early warnings, giving operators more time to respond.

• **PHOTOGRAMMETRY:** We create detailed 3-D reconstructions of terrain and structures from a single fly-over.

Together, these capabilities turn everyday drones into versatile ISR assets that provide rapid mapping, enhanced situational awareness, and on-demand intelligence.

DETAILS

Our solution turns conventional FPV drones into smart systems by equipping them with a mountable AI module with spherical cameras and built-in edge analytics. This upgrade enables the UAV to process and analyze video in real time, eliminating the need to stream all raw data back to the ground station

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SC-200

DETAILS

The autogyro, also called gyrocopter, is one of the safest aircraft of the world. It combines the good characteristics of a helicopter and a fixed-wing aircraft:

▸ short take-off way,
▸ usability in various weather conditions,
▸ wide speed range, including very slow speed flying,
▸ extremely low total cost of ownership.

Considering its safety and economic operating conditions, it can be used with outstanding results in the following areas:

▸ Police and military applications: road and border patrol/surveillance with radar, LIDAR and complex camera system; basic flight training; drone control from above.
▸ Rescue teams: fast medical aid; search for a missing person.
▸ Combating wildfires: precision water and retardant drops (~200 litres of water per tank); support for ground teams.

KEY FEATURES

Empty weight	298 kg
Rotor diameter	8.4 m
Seats	2
Maximum take-off weight	560 kg
Maximum take-off distance	120 m
Climb rate	3.5–7 m/s
Cruise speed	140 km/h
Maximum speed	165 km/h
Range	up to 5 hours/500 km (10 hours/1000 km with auxiliary tank)
Fuel	95e petrol 60 litres (100 litres with auxiliary tank)
Dimensions	8.4 m × 2 m × 2.75 m

SC-200.ENCLOSED

DETAILS

The enclosure can reduce overall drag compared to open-cockpit versions, potentially improving performance. Based on the SC-200 model, the enclosed version has enhanced safety and comfort features:

▸ comfort and weather features:
  • protection from various weather conditions
  • heating system
  • reduced noise and vibration
▸ enhanced safety: the enclosed cabin can contribute to overall structural integrity
▸ offers better protection in the event of crash.

Extending the base model (SC-200):

▸ Police and military applications: road and border patrol/surveillance with radar, LIDAR and complex camera system; basic flight training, parachuting.
▸ Rescue teams: fast medical aid with additional stretcher, search for a missing person.
▸ Combating wildfires: precision water and retardant drops (~200 litres of water per tank), support for ground teams, carrying smokejumpers.

KEY FEATURES

	Prototype ready	Development phase
Empty weight	298 kg	350 kg
Rotor diameter	8.4 m	9.6 m
Seats	2	3
Maximum take-off weight	560 kg	670 kg
Maximum take-off distance	120 m	120 m
Climb rate	3.5–7 m/s	3.5–7 m/s
Cruise speed	140 km/h	140 km/h
Maximum speed	165 km/h	165 km/h
Range	up to 5 hours/500 km (10 hours/1000 km with auxiliary tank)	
Fuel	95e petrol 60 litres (100 litres with auxiliary tank)	
Dimensions	8.4 m × 2 m × 2.75 m	9.6 m × 2.5 m × 2.8 m

SC-200.UAS

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KEY FEATURES

Empty weight	298 kg
Rotor diameter	8.4 m
Seats	2
Maximum take-off weight	560 kg
Maximum take-off distance	120 m
Climb rate	3.5–7 m/s
Cruise speed	140 km/h
Maximum speed	165 km/h
Range	up to 5 hours/500 km (10 hours/1000 km with auxiliary tank)
Fuel	95e petrol 60 litres (100 litres with auxiliary tank)
Dimensions	8.4 m × 2 m × 2.75 m

DETAILS

The basis of the development project is the SC-200 model. The new SC-200.UAS type will be a versatile tool in the field, which eliminates human risk and further extends the application area in critical operations. This model will be able to do the following:

- ►► monitoring (e.g.: power lines, bridges, disaster sites)
- ►► LIDAR-mapping
- ►► real-time surveillance and patrolling
- ►► carrying drones with optical wires
- ►► delivering special packages (first-aid kit, food, equipment)
- ►► agricultural spraying and monitoring
- ►► aerial cinematography in filmmaking
- ►► search and rescue with thermal and high-res cameras.

SMALL ARMS/ ARTILLERY

SMALLER CALIBRE WEAPONRY

CONTENTS

AGS-15
TRAUMATIC NON-LETHAL PISTOL

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AGS-15

KEY FEATURES

2 shots	
Deringer style, DAO	
Works with rubber bullet loaded from front, and alarm cartridge loaded from rear to the magazine.	
Calibre	15 mm rubber bullet/9 mm PAK alarm cartridge
Kinetic energy	up to 100 Joules (determined by end user)
Barrel length	40 mm
Effective range	10–15 m

DETAILS

This non-lethal handgun is made for home defence. It is a 2-shot rubber bullet pistol that uses 15 mm rubber bullets and 9 mm PAK signal ammunition.

ATLAS ZALAN
RUBBER BULLET TRAUMATIC RIFLE

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ATLAS ZALAN

KEY FEATURES

12 shots	
Repeating system	
Works with rubber bullet loaded from front, and alarm cartridge loaded from magazine.	
Calibre	15 mm rubber bullet/9 mm PAK
Kinetic energy	up to 120 Joules (determined by end user)
Barrel length	415 mm
Effective range	30 m

DETAILS
This non-lethal rifle family is made for crowd control in law enforcement units and for home defence in civilian use. It is a 12-shot rubber bullet rifle that uses 15 mm rubber bullets and 9 mm PAK.

G-SHOOT
TRAUMATIC NON-LETHAL RIFLE FAMILY

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G-SHOOT

KEY FEATURES

2 shots	
Bock hunting rifle system	
Works with rubber bullet loaded from front and alarm cartridge loaded from the rear to the magazine.	
Calibre	17.6 mm rubber bullet/.380 alarm cartridge
Kinetic energy	up to 120 Joules (determined by end user)
Barrel length	480 mm and 280 mm
Effective range	20-30 m

DETAILS
This non-lethal rifle family is made for crowd control in law enforcement units and for home defence in civil use. The G-Shoot is a 2-shot rubber bullet rifle that uses 17.6 mm rubber bullet and .380 signal ammunition.

PDW-GS4

MECHANICALLY OPERATED FULLY AUTOMATIC SHOOTING ADAPTER

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PDW-GS4

DETAILS

The PDW-GS4 is a thigh holster and fully automatic shooting adapter at once. It is made for members of law enforcement and military organizations who have only a semi-automatic pistol as their regular weapon (e.g. police patrols). If required, by pressing a release button the users can tilt the pistol to the side and take it out of the holster to fire single shots.

If more firepower is needed, the users can remove, with a quick release, the whole thigh holster containing the pistol. Holding the rear handle sets the adapter into ready-for-fire position, and the pistol is loaded by pulling the loading grip. The users may want to pull out the shoulder rest and the adapter so they can target and fire the weapon in a fully automatic way from the shoulder.

KEY FEATURES

100% Hungarian development

Ergonomic wear

2 in 1 tool: holster and submachine gun adapter

G9HSP

HANDGUN

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DETAILS

The main feature of the G9HSP pistol is the modular and interchangeable firing mechanism: it can be either hammer-fired or striker-fired. Due to the modular design of the weapon, the transition from one type of firing mechanism to another takes approximately thirty seconds. Three component groups need to be replaced during this transition: the firing pin housing, the recoil spring, and the firing block. The latter, containing the firing mechanism is mounted in a removable module and can be easily lifted out with a single motion. The pistol utilizes Glock's plastic magazines, to ensure compatibility with the Glock handguns used by the Hungarian Defence Forces.

➡ Its system features a short-recoil, barrel-block locking mechanism.

➡ The firing mechanism allows for double-action firing, enabling consecutive shots without manual cocking.

➡ It has a decocker and triplex safety system.

➡ The controls are ambidextrous, designed to facilitate both right- and left-handed use.

➡ The rear, interchangeable panel of the handgrip is available in three sizes (S, M, L) for customization.

The handgun underwent a comprehensive NATO military testing and trials were ran on it by the Firearms Experimental Examination Division of the Hungarian Defence Forces' Force Modernization and Transformation Command. Experts conducted a 10,000-round test, including a so-called „torture test". The pistol successfully completed troop trials and operational field testing within the Hungarian Defence Forces. Additional versions of the pistol firing .40 Smith and Wesson and .45 ACP ammunition are currently under development. The magazine capacities for these are 15 rounds for the .40 S&W calibre and 13 rounds for the .45 calibre.

KEY FEATURES

Empty weight	815 g
Full length	207 mm
Full height	135 mm
Full width	38 mm
Length of barrel	114.3 mm
Calibre	9×19 mm
Effective range	50 m
Magazine	17 rounds (Glock type)

G9SMG
SUBMACHINE GUN

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G9SMG

DETAILS

➤ The G9SMG submachine gun has both standard and short versions.

➤ It fires the same ammunition as the pistol belonging to the handgun family (G9HSP), namely the 9×19 mm Parabellum cartridge, and the magazine type is also the same (Glock).

➤ It uses a lockless, freely recoiling blowback system.

➤ The firing mechanism allows for both single-shot and fully automatic fire.

➤ Its controls make it suitable for both right- and left-handed use.

➤ The telescopic buttstock is adjustable, and for increased comfort, the folding direction can be changed by refitting some components.

➤ It is equipped with a flash suppressor at the muzzle.

➤ The firearm features four Picatinny rails, allowing for the attachment of various accessories and sights.

KEY FEATURES

Empty weight	3.1 kg/2.9 kg*
Full length	750 mm/700 mm*
Full height	190 mm
Full width	52 mm
Length of barrel	254 mm (10")/203.2 mm (8")*
Calibre	9×19 mm Parabellum
Effective range	100 m/80 m*
Rate of fire	800 rounds/min
Magazine	19-33-50 rounds (Glock type)
Operation	fully automatic, single-shot

*standard version/short version

G40GL
GRENADE LAUNCHER

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G40GL

DETAILS

➤ The G40GL grenade launcher can be used independently; in this case, a buttstock can be attached to it, but it can also be connected under the barrel of a firearm, such as the assault rifle of the firearms family.

➤ Its calibre is 40×46 mm.

➤ It has a double-action firing mechanism.

➤ It is suitable for launching explosive, smoke, signalling and illuminating grenades.

KEY FEATURES

Empty weight	1.9 kg
Full length	700 mm
Full height	150 mm
Full width	65 mm
Length of barrel	304.8 mm (12")
Calibre	40×46 grenades
Effective range	350 m

G224AR

ASSAULT RIFLE

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G224AR

KEY FEATURES

Empty weight	3.1 kg/2.9 kg*
Full length	850 mm/725 mm*
Full height	190 mm
Full width	52 mm
Length of barrel	355.6 mm (14")/228.6 mm (9")*
Calibre	5.56×45 mm NATO
Effective range	600 m/500 m*
Rate of fire	700 rounds/min
Magazine	30 rounds (M4 compatible)
Operation	fully automatic and single-shot

*standard version/short version

DETAILS

➜ The G224AR assault rifle is available in two versions – standard and short.

➜ Its calibre is in accordance with the 5.56×45 mm NATO standard.

➜ It utilizes a gas-operated, rotating bolt (with seven locking lugs), short-stroke gas piston system.

➜ The firing mechanism allows for both single-shot and fully automatic firing.

➜ It comes with a magazine capable of holding 30 rounds. It is compatible with STANAG M4 magazines.

➜ The telescopic buttstock is adjustable, and for increased comfort, the folding direction can be changed by refitting some components.

➜ The assault rifle is equipped with ambidextrous controls.

➜ Another characteristic is that the quantity of gas flowing into the gas cylinder can be regulated.

➜ The firearm features four Picatinny rails, allowing for the attachment of various accessories and sights.

G224LMG

LIGHT MACHINE GUN

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DETAILS

➜ The G224LMG light machine gun has been developed according to the specifications set by the Hungarian Defence Forces.

➜ This weapon fires 5.56×45 mm NATO ammunition.

➜ Its barrel is easily interchangeable and equipped with a flash hider.

➜ The controls ensure both right- and left-handed use.

➜ The buttstock uses a telescopic mechanism and allows for side-folding.

➜ Its system is gas-operated, rotating bolt (with six locking lugs), gas piston short-stroke, and is equipped with a gas regulator.

➜ The firearm is suitable for both semi-automatic and fully automatic fire.

➜ It is equipped with four Picatinny rails.

➜ Its primary sight is an iron sight, and thanks to the Picatinny rails, it can be fitted with an optical sight.

➜ The light machine gun can be fed from either a magazine or a belt. In the case of a drum magazine, the weapon can hold 60 rounds. It is compatible with STANAG M4 magazines.
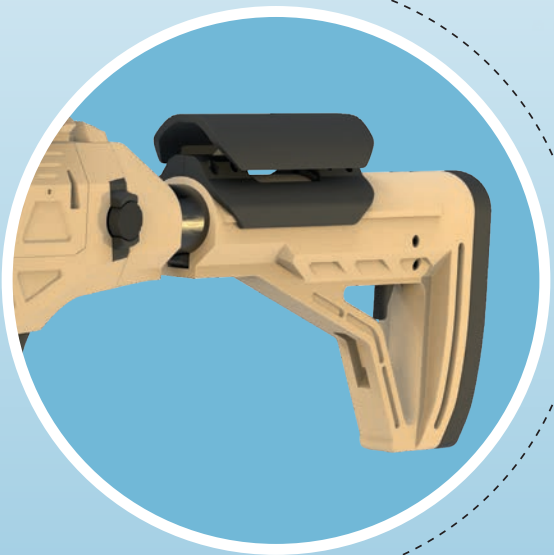
KEY FEATURES

Empty weight	7.5 kg
Full length	1125 mm
Full height	238 mm
Full width	128 mm
Length of barrel	550 mm (20")
Calibre	5.56×45 mm (NATO)
Effective range	600 m
Muzzle velocity	930 m/s
Rate of fire	650 rounds/min
Belt	cal. 5.56, disintegrating
Operation	fully automatic, semi-automatic

*standard version/short version

G308BR
BATTLE RIFLE

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EXPORT AGENCY LTD.

G308BR

DETAILS

➡ The G308BR battle rifle fires 7.62×51 mm NATO rifle ammunition.
➡ It uses a gas-operated, rotating bolt (with seven locking lugs), short-stroke gas piston system, equipped with a gas regulator.
➡ The controls make it suitable for both right- and left-handed use.
➡ The telescopic buttstock is adjustable, and for increased comfort, the folding direction can be changed by refitting some components.
➡ The magazine is capable of holding 10 rounds, with the option for a larger magazine capacity.
➡ Its firing mechanism allows for both single-shot and fully automatic fire.
➡ The firearm features four Picatinny rails, allowing for the attachment of various accessories and sights.

KEY FEATURES

Empty weight	3.6 kg/3.3 kg*
Full length	1030 mm/930 mm*
Full height	190 mm
Full width	52 mm
Length of barrel	508 mm (20")/406.3 mm (16")*
Calibre	7.62×51 mm NATO
Effective range	800 m/500 m*
Rate of fire	700 rounds/min
Magazine	10-20 rounds
Operation	fully automatic and single-shot

G762MG
MACHINE GUN

VEX
HUNGARIAN DEFENCE
EXPORT AGENCY LTD.

DETAILS

➡ The G762MG machine gun has been developed according to the specifications set by the Hungarian Defence Forces.
➡ This weapon fires 7.62×51 mm NATO ammunition.
➡ Its barrel is easily interchangeable and equipped with a flash suppressor.
➡ The controls ensure both right- and left-handed use.
➡ The buttstock offers a telescopic mechanism that allows for side-folding.
➡ Its system is gas-operated, rotating bolt (with six locking lugs), gas piston short-stroke, and equipped with a gas regulator.
➡ Suitable for fully automatic fire.
➡ The firearm is equipped with four Picatinny rails.
➡ Its primary sight is an iron sight, and thanks to the Picatinny rails, it can be fitted with an optical sight.
➡ The machine gun can be fed from a belt.

KEY FEATURES

Empty weight	9.2 kg
Full length	1225 mm
Full height	238 mm
Full width	128 mm
Length of barrel	550 mm (22")
Calibre	7.62×51 mm (NATO)
Effective range	800 m
Muzzle velocity	860 m/s
Rate of fire	600 rounds/min
Belt	cal. 7.62, disintegrating
Operation	fully automatic

THE MORTAR SYSTEMS

SMOOTH-BORE MORTAR SYSTEMS

VEX
HUNGARIAN DEFENCE
EXPORT AGENCY LTD.

DETAILS

A world leader in the development and delivery of complete, seamlessly integrated 60, 81 and 120mm smooth-bore mortar systems.

Established in 1860, this company has a long and distinguished history of supplying the world's leading defence forces with state-of-the-art ammunition and explosives. Leveraging cutting-edge technology and years of experience in the field, this company has been manufacturing 60, 81 and 120mm calibre smooth-bore mortar systems for more than 50 years. The mortar bombs are of the highest combat effectiveness and provide maximum safety in hostile environments all over the world – without diminished levels of performance or durability.

The product range includes all types of mortar ammunition, weapon systems, auxiliary field equipment, and aiming and sighting systems – tried, tested and in service by modern militaries the world over. From hand-picking the highest quality raw materials, through to meticulous manufacturing, weapons integration and training, this company offers a full 360° service to ensure today's militaries are best-equipped for tomorrow's warfare.

BREN 2 BR

BATTLE RIFLE

VEX
HUNGARIAN DEFENCE
EXPORT AGENCY LTD.

BREN 2 BR

DETAILS

The BREN 2 BR is a longer-barrel, automatic version of the BREN 2 assault rifle, developed for designated marksmen. The weapon combines the advantages of rifles with the smashing and destructive power of the 7.62×51 mm calibre. Thanks to the longer barrel, it provides enhanced protection for special units during combat in an urban environment. Its effective range is 800 metres.

KEY FEATURES

Model	CZ-HU BREN 2 BR
Calibre	7.62×51 mm
Magazine capacity	25 rounds
Frame	Aluminium alloy 7075 T6
Barrel length (mm)	407
Overall length with folded/ unfolded stock (mm)	735/925-995 ± 10
Height with folded sight, without magazine (mm)	210 ± 5
Width with folded/unfolded stock (mm)	80/110 ± 5
Weight without magazine (g)	3778 ± 50

P-07
HANDGUN

P-07

KEY FEATURES

Model	CZ-HU P-07
Calibre	9×19 NATO
Magazine capacity	15 rounds
Frame	High-strength polymer
Triggering mechanism	SA/DA
Sight	Luminescent, open sight
Barrel length (mm)	95
Length/height/ width (mm)	185×137×37
Weight with empty magazine (g)	max. 800
Security characteristics	Decocking/manual safety, safety notch, automatic trigger release/ blocking to prevent uncontrolled firing

DETAILS

The P-07 is the smaller and move compact version of the P-09 pistol. Its reduced size makes it fit for conceal-carry situations. Its empty-magazine weight is less than 800 grams. Its high-strength polymer frame makes it durably resistant to heat and mechanical damage. The steel parts of the handgun are protected with special surface treatment from corrosion and wear and tear. Both right- and left-handed persons can use it without changing grip, and its interchangeable backstraps make it a particularly handy firearm. It is a reliable, accurate and heavy-duty service pistol.

P-09
HANDGUN

P-09

DETAILS

This full-size service pistol can outperform military norms even under extreme conditions.
It has a high-strength polymer frame that is highly resistant to heat and mechanical damage but is also light at the same time. Its steel parts are protected from corrosion and wear and tear by special surface treatment. Its controls are fit for both right- and left-handed persons without changing grip. It has interchangeable backstraps for different hand sizes. The P-09 is an accurate, reliable and ergonomic weapon.

KEY FEATURES

Model	CZ-HU P-09
Calibre	9×19 NATO
Magazine capacity	19 rounds
Frame	High-strength polymer
Triggering mechanism	SA/DA
Sight	Luminescent, open sight
Barrel length (mm)	115
Length/height/width (mm)	208×148×37
Weight with empty magazine (g)	max. 890
Security characteristics	Decocking/manual safety, safety notch, automatic trigger release/blocking to prevent uncontrolled firing

BREN 2
ASSAULT RIFLE

VEX
HUNGARIAN DEFENCE
EXPORT AGENCY LTD.

BREN 2

DETAILS

The BREN 2 is an automatic weapon that can be used both as a single-shot and as a burst weapon. It has a high-strength, aircraft-grade aluminium alloy frame. Its main parts are both thermally and mechanically resistant. This assault rifle is available in two versions, with 5.56×45 mm and 7.62×39 mm calibres. Its effective range is 300-500 metres.

KEY FEATURES

Model	CZ-HU BREN 2 –8"	CZ-HU BREN 2 –11"	CZ-HU BREN 2 –14"	CZ-HU BREN 2 –9"	CZ-HU BREN 2 –11"	CZ-HU BREN 2 –14"
Calibre	5.56×45 mm NATO	5.56×45 mm NATO	5.56×45 mm NATO	7.62×39 mm 43 M	7.62×39 mm 43 M	7.62×39 mm 43 M
Magazine capacity	30 rounds	30 rounds	30 rounds	30 rounds	30 rounds	30 rounds
Frame	Aluminium alloy 7075 T6	Aluminium alloy 7075 T6	Aluminium alloy 7075 T6	Aluminium alloy 7075 T6	Aluminium alloy 7075 T6	Aluminium alloy 7075 T6
Barrel length (mm)	207	280	357	227	280	357
Overall length with folded/unfolded stock (mm)	505/684 – 733 ± 10	577/762 – 807 ± 10	657/840 – 884 ± 10	525/706 – 753 ± 10	577/762 – 807 ± 10	657/840 – 884 ± 10
Height with folded sight, without magazine (mm)	202 ± 5	202 ± 5	202 ± 5	202 ± 5	202 ± 5	202 ± 5
Width with folded/unfolded stock (mm)	80/104 ± 5	80/104 ± 5	80/104 ± 5	80/104 ± 5	80/104 ± 5	80/104 ± 5
Weight without magazine (g)	2891 ± 50	2986 ± 50	3103 ± 50	2847 ± 50	2896 ± 50	3009 ± 50

SCORPION EVO 3
SUBMACHINE GUN

VEX
HUNGARIAN DEFENCE
EXPORT AGENCY LTD.

SCORPION EVO 3

KEY FEATURES

Model	CZ-HU SCORPION EVO3 A1
Calibre	9×19 NATO
Magazine capacity	30 rounds
Frame	polymer
Barrel length (mm)	196
Overall length with folded/unfolded stock (mm)	420/625-675±10
Height without magazine (mm)	215±5
Width with folded/unfolded stock (mm)	60/82±5
Weight without magazine (g)	2607±50

DETAILS

This weapon is the result of the 10-year-long development of the legendary vz. 61 Škorpion submachine gun. The Scorpion EVO 3 remains reliable even under extreme weather conditions. It can be dismantled without any maintenance tools. It has an ergonomic design, is two-handed, the main operational elements are located on both sides and its cocking controls can be refitted. This small automatic firearm can be used as a single-shot, triple burst and also as a burst gun.

C50 .50 BMG CAL. SELF-LOADING RIFLE

C50 – A NEW CLASS OF DMR RIFLE

VEX
HUNGARIAN DEFENCE
EXPORT AGENCY LTD.

DETAILS

The C50 self-loading rifle is not just another anti-materiel weapon — it's the introduction of an entirely new class of military and law enforcement firepower. Compact, lightweight, and highly versatile, the C50 fuses the penetrative strength of a .50 BMG system with the agility and rapid deployment capabilities of a standard infantry rifle. Its unique bullpup design, advanced recoil system, and gas-free operation deliver sub-MOA precision, unmatched versatility, and unprecedented reliability at a fraction of the lifecycle and mission costs of comparable systems.

Key Value Propositions:

➤ Maximum safety during transport: when carried by the operator, the barrel is securely locked in the rear position by the barrel catch lever. A loaded magazine is inserted, but the chamber remains empty. By simply pressing the barrel catch lever, the barrel moves forward and chambers a round, making the weapon instantly combat-ready.

➤ Multi-role Force Multiplier: Capable of replacing or supplementing DMRs, rocket systems, and anti-materiel rifles across roles like counter-sniper, CQB/FIBUA, vehicle interdiction, UAS defense, and more.

➤ Available in two configurations: the C50 system offers mission-adaptable performance. The standard version provides extended range with an overall length of 1115 mm (extended) and 910 mm (retracted), weighing 8.3 kg. Meanwhile, the C50 Light reduces the overall length to 985 mm (extended) and 780 mm (retracted), with a weight of 7.6 kg, ensuring unmatched maneuverability in confined or rapid-response scenarios.

➤ Lightweight & Agile: with its unique light weight, the C50 seamlessly fits into patrol units, UGVs, and remote weapon stations — enabling firepower without compromising mobility.

➤ Modular, Customizable Design: Adjustable barrel lengths, integrated Picatinny rail system, and compatibility with existing optics and gear make it ideal for modern and future combat environments.

➤ With rising demand for adaptable, cost-efficient, and tech-integrated systems, the C50 has the potential to disrupt a range of sectors, including anti-materiel and sniper rifle segments, law enforcement tactical units, counter-UAS defense systems, naval and boarding force applications, as well as UGV and robotic weapon integration.

C50 00107 LIGHT

KEY FEATURES

Caliber	12.7 x 99 mm (12.7x108 and 14.5 mm have been successfully tested)
C50 Barrel length	730 mm
C50 Light Barrel length	600 mm
V0	800 m/s (with standard ammunition out of a 730 mm barrel)
E0	14000 (with standard ammunition out of a 730 mm barrel)
C50 Overall length	1115 mm (barrel extended), 910 mm (barrel retracted)
C50 Light Overall length	985 mm (barrel extended), 780 mm (barrel retracted)
Magazine capacity	5
Height	225 mm
Width	90 mm
C50 Weight:	8300 g
C50 Light Weight	7600 g

DIGITAL WEAPON STORAGE SYSTEM

VEX
HUNGARIAN DEFENCE
EXPORT AGENCY LTD.

RAPID ACCESS WEAPON STORAGE AND
IDENTIFICATION SYSTEM

DETAILS

➡ Automated data capture allows real-time monitoring of weapon status across units, including in-use, maintenance, and deployment.

➡ The system's patented locking mechanism uniquely secures the weapon at its center, preventing firing, loading, or access to controls for maximum safety.

➡ Fits any weapon and scales from a single armory to a global network. Works with existing security protocols, including remote access management.

➡ Automatically tracks weapon usage and schedules maintenance based on actual use, extending weapon lifespan and ensuring safety.

KEY FEATURES

Fast access to weapons for authorized persons

Real-time digital administration, modern technology for tracking weapons movements instead of outdated systems

Remote control and remote monitoring option

Multi-level key system option

Minimized space requirement

Easy to specialize and customise, suitable for existing system

Modular system, with the network of which a complete digital weapon room can be created

Easily mobilized with our container solutions

COMBAT VEHICLES
+

GROUND VEHICLES

GROUND VEHICLES

CONTENTS

VEHICLE RECOVERY TRAINING & FIELD SUPPORT

OPERATIONAL TRAINING FOR RECOVERY VEHICLES

DETAILS

The company provides on-site tactical training programs for its defence partners to ensure that their personnel are fully prepared for real-world recovery operations. These sessions are held directly with operational units and include hands-on experience with recovery systems such as the HD30 and HD30RB.

The training focuses on field-based procedures, system operation, troubleshooting, and tactical recovery techniques – providing critical skills for deployment success in both military and logistic environments.

Training is customizable and may cover:
➥ Recovery scenarios with heavy-duty vehicles
➥ Winch operation and underlift handling
➥ Tactical mobility and vehicle rescue under load
➥ Routine maintenance and in-field fault resolution.
➥ Team coordination and mission simulations.

KEY FEATURES

Customizable training modules for specific mission profiles.

Hands-on, scenario-based vehicle recovery exercises.

On-site delivery with real GTS systems (HD30, HD30RB, etc.).

Focus on operational readiness and safety.

Available globally for allied defence forces.

HD30

LONG-REACH MILITARY UNDERLIFT SYSTEM

VEX
HUNGARIAN DEFENCE
EXPORT AGENCY LTD.
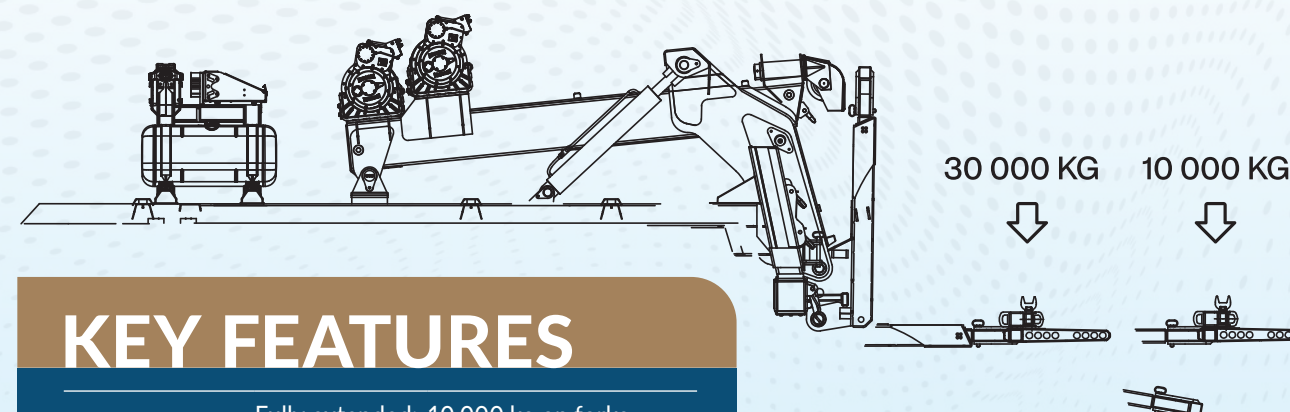
30 000 KG   10 000 KG

KEY FEATURES

Lifting capacities:	Fully extended:	10,000 kg on forks
		10,000 kg on L-arms
	Fully retracted:	30,000 kg on forks
		10,000 kg on L-arms

Hydraulic dual-extension underlift.

Bottom-mounted pivot design for enhanced stability.

Available as complete unit or export kit.

Maximum reach: 4810 mm

Reinforced frame and lifting arms.

200   160   160

4810

1160

DETAILS

The HD30 is a flagship underlift system developed by a Hungarian manufacturer with over 30 years of experience in designing and building heavy-duty recovery equipment. Known for its in-house development and fabrication processes, our company has earned a strong reputation in the defence and logistics sectors for delivering robust, mission-ready systems that excel under pressure.

The HD30 is specifically designed for high-performance recovery operations, where strength, reach and stability are essential. It features a bottom-mounted pivot and a reinforced underlift with dual hydraulic extension, reaching an outstanding 4810 mm. This extended range offers critical flexibility in tactical and logistical missions, making it suitable for a wide variety of vehicle platforms and operational scenarios.

Engineered with maximum lifting performance in mind, the HD30 provides 10,000 kg capacity on forks and L-arms when fully extended. When retracted, it delivers an exceptional 30,000 kg lifting force on forks while maintaining 10,000 kg on L-arms. These capabilities set a new benchmark for strength and reliability in its class, outperforming many comparable systems in the international market.

The HD30 is available both as a complete recovery truck and as a CKD/export kit. Every unit is built to integrate easily with different chassis configurations, offering adaptability for domestic use or export. Our commitment to quality and operational readiness is reflected in every component — from precision machining to battlefield durability — ensuring dependable performance even in the harshest conditions.
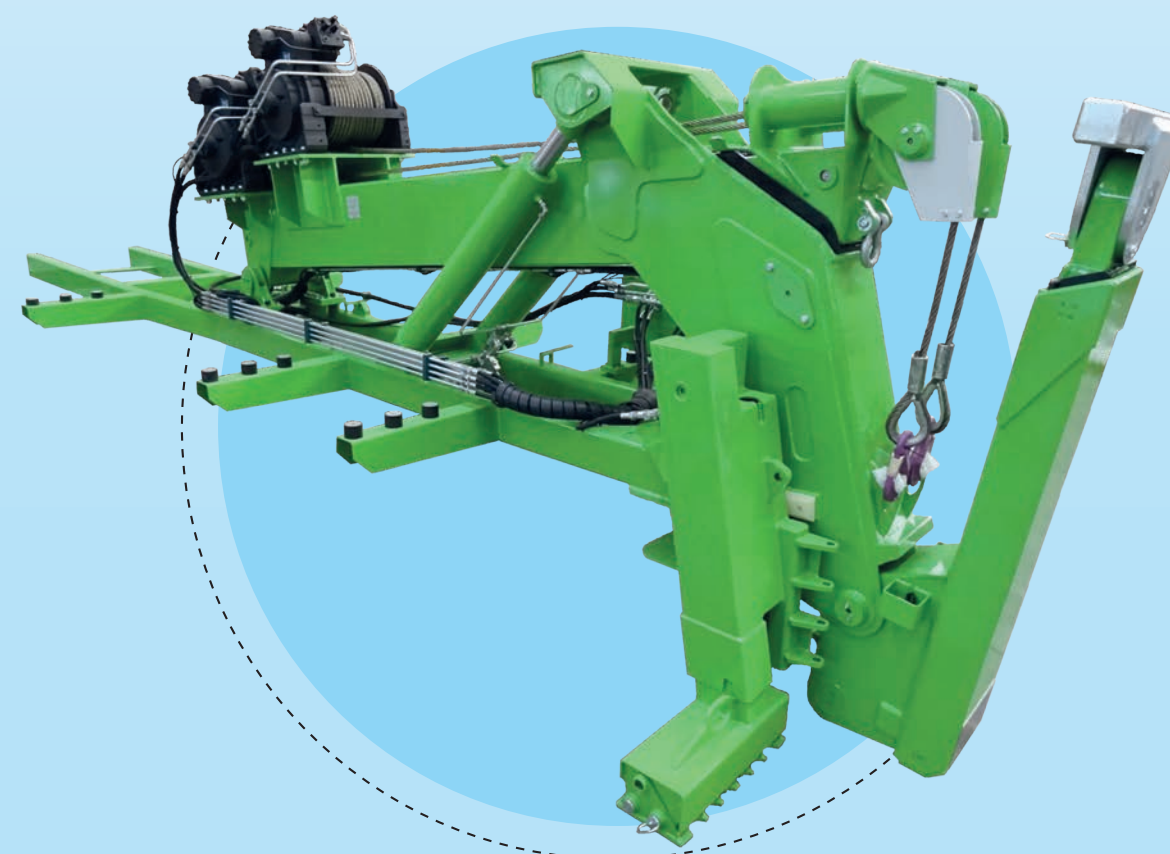
HD30RB

TACTICAL UNDERLIFT WITH TWO-STAGE RECOVERY BOOM

VEX
HUNGARIAN DEFENCE
EXPORT AGENCY LTD.

DETAILS

The HD30RB is a multirole recovery platform designed for military and tactical use, combining the proven underlift system of the HD30 with an integrated, high-capacity two-stage recovery boom. Developed by our company — a Hungarian manufacturer with more than 30 years of experience in military-grade towing and recovery systems — the HD30RB represents the next step in operational versatility and lifting power.

Built for scenarios where both towing and winching are required, the HD30RB offers exceptional flexibility in battlefield or high-demand logistics environments. The dual-stage boom extends up to 5000 mm with a maximum lifting capacity of 14,000 kg when extended and 30,000 kg when retracted. With a maximum boom angle of 44°, this system enables complex recoveries in environments where vertical reach and controlled movement are critical.

At its core, the HD30RB retains the trusted HD30 underlift architecture — a hydraulically extendable, bottom-pivot design capable of 4810 mm reach and reinforced for exceptional strength and stability. Fully extended, the underlift handles 10,000 kg on both forks and L-arms, and up to 30,000 kg on forks when retracted. These combined systems provide unmatched capability for armed forces and specialized fleets requiring maximum flexibility in field recovery.

The HD30RB is available as a fully assembled system or as a CKD/export kit for local integration. As with all solutions, each component is designed, manufactured, and assembled in-house for total quality control and mission-ready durability.

14 000 KG

30 000 KG

5 000 mm

30 000 KG **10 000 KG**

200 160 160

4810
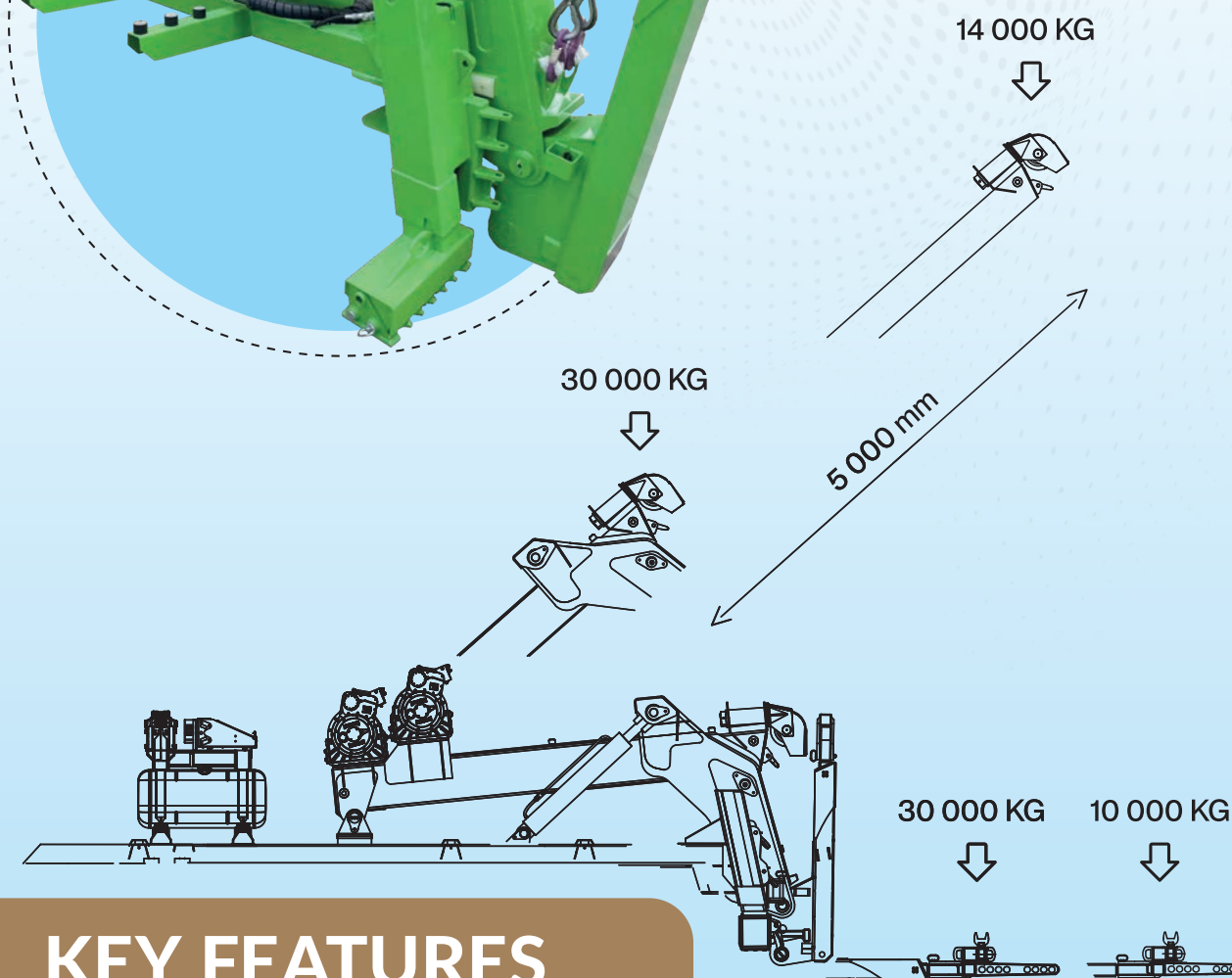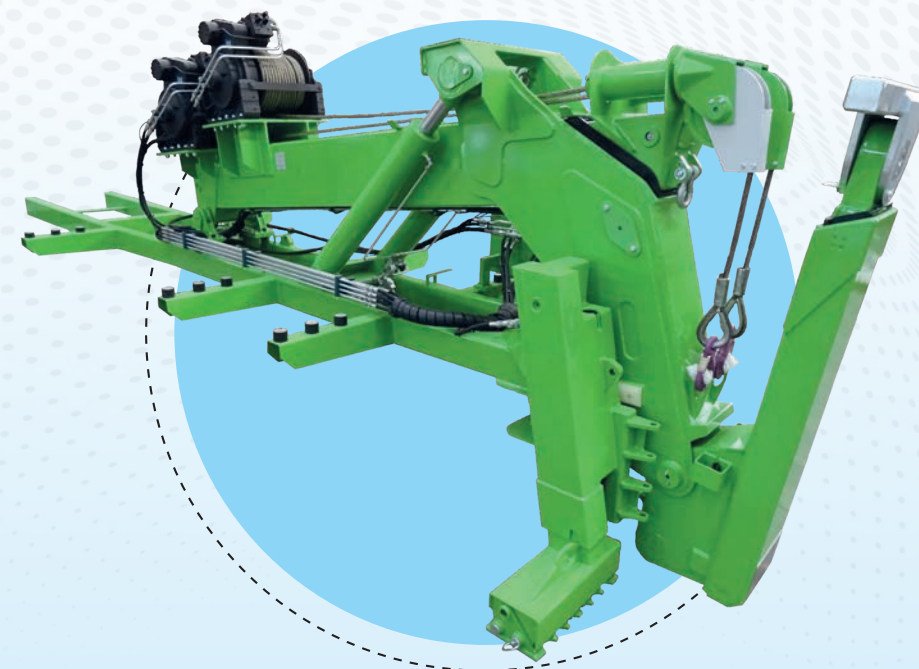
KEY FEATURES

Recovery boom capacities	30,000 kg (retracted)	
	14,000 kg (extended)	
	Reach: 5000 mm | Max angle: 44°	
Underlift capacities:	Fully extended	10,000 kg (forks), 10,000 kg (L-arms)
	Fully retracted	30,000 kg (forks), 10,000 kg (L-arms)

Reinforced dual-function recovery and towing system.

Long-reach boom and underlift for complex field operations.

Export-ready CKD kit or fully integrated solution.

KML, IFR, IFD

VEX
HUNGARIAN DEFENCE
EXPORT AGENCY LTD.

FIRST RESPONDER DETECTION,
IDENTIFICATION, MONITORING,
DECONTAMINATION AND
LABORATORY VEHICLES

KML

IFR

KML

DETAILS

The KML, IFR and IFD vehicles are special members of the Komondor light armour vehicle family with interchangeable superstructure system. They are special purpose first response vehicles dedicated to perform specific tasks during CBRN/HazMat related incidents.

The crew of the Detection-Identification-Monitoring Vehicle gathers the first accurate information on a HazMat-related incident by entering the hot zone with the appropriate equipment.

The Laboratory Vehicle takes position outside the hot zone fully prepared and equipped for the on-site analyzation and evaluation of the samples gathered either by the DIM teams or its own crew.

The CBRN-E Reconnaissance Vehicle is to provide intervening law enforcement personnel, dealing with CBRN-E related tasks, with the appropriate equipment and working conditions.

The main purpose of the CBRN-E Decontamination Vehicle is the on-site decontamination of intervening personnel and their equipment after the execution of CBRN-E related tasks.

RDO-4336 MPV

VEX
HUNGARIAN DEFENCE
EXPORT AGENCY LTD.

ARMOURED MULTIPURPOSE FIREFIGHTER/
TECHNICAL RECOVERY VEHICLE

DETAILS

The RDO-4336 MPV armoured multipurpose vehicle is a special member of the Komondor light armour vehicle family with interchangeable superstructure system.

KEY FEATURES

Integrated hydraulic system with 130 kW-power capacities to drive the superstructure or front-mounted equipment (water pump, decontamination system, crane, winch, snow blower, mulcher, plow).

Extended electrical power capacity with external charge possibility.

Load capacity >10 t

Towing capacity >25 t

Integrated Ultra High Pressure self- and wheel arch extinguisher systems.

Special superstructures (firefighter with 7000-8000 l water tank, decontamination, vehicle recovery, mobile HQ, medical evacuation) can be changed by crew without special equipment.

Compliance with both military and firefighter standards.

RDO-XXXX KOMONDOR

LIGHT ARMOURED VEHICLE FAMILY

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HUNGARIAN DEFENCE
EXPORT AGENCY LTD.

SIMULATION/ TRAINING

DETAILS

The Komondor vehicle family is designed and manufactured to meet various customer demands. Based on our experiences, we believe that most costumers would like their vehicle to be at least partly manufactured, assembled or maintained in their countries, so we are ready for the technology transfer.
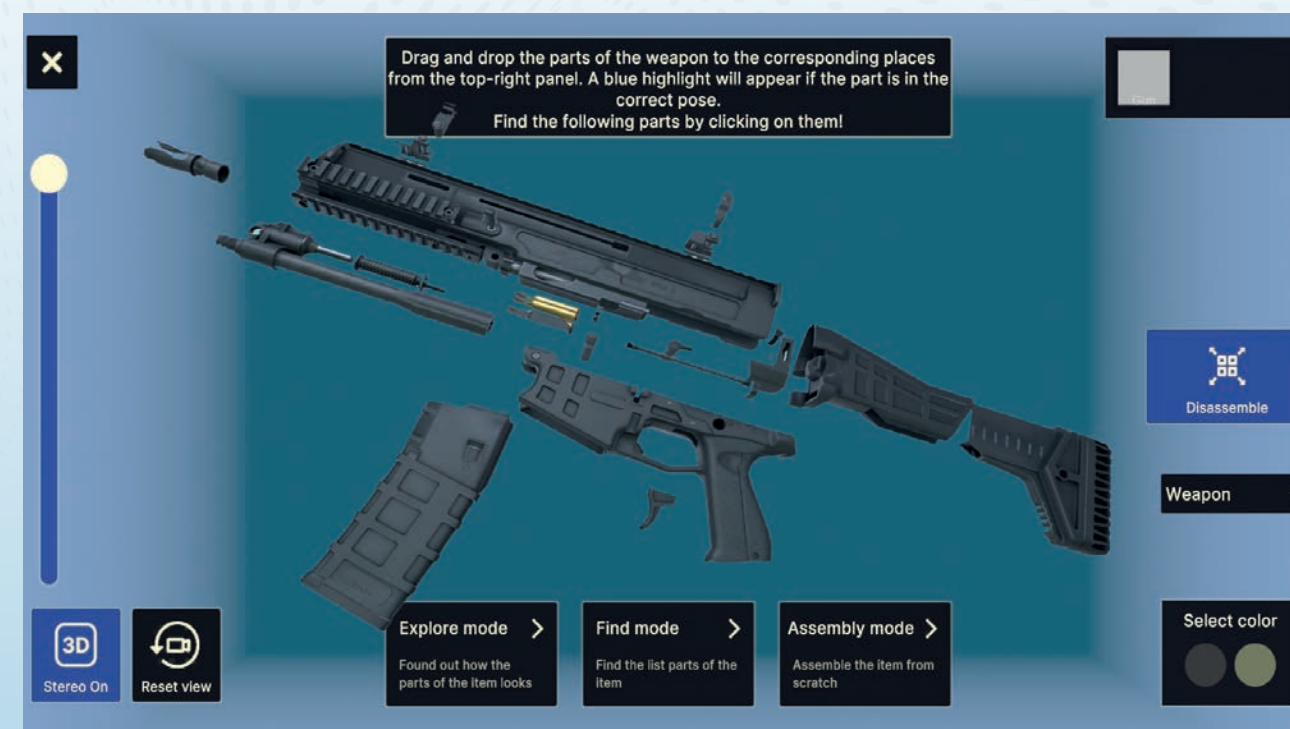
KEY FEATURES

Combining proven, reliable former, present and future technical solutions.

Monocoque "V" shaped welded armour steel body under the entire vehicle in general up to 3a/3b blast protection, up to lvl3 ballistic protection with ballistic glasses, spall-liner inner cover.

Uniquely designed permanent 4×4 or 6×6 driveline with independent suspension system.

Different simple/double cab, APC, special purpose versions according to customer demands.

Integration preparation (turret, communications, special equipment, modular interior design).

Extended off-road capacity with high manoeuvrability.

High load capacity in all categories.

SIMULATION ǀ TRAINING

CONTENTS

3D ASSEMBLY
3D VISUALIZATION FOR COMPLEX ASSEMBLY TRAINING

DETAILS

3D Visualization for Complex Assembly Training is a cutting-edge digital solution designed to enhance the way technical training and product assembly instructions are delivered. It offers an interactive, three-dimensional environment where users can explore, understand, and practice complex assembly or disassembly procedures in a safe and immersive way.

KEY FEATURES

Detailed visualization: Provides high-resolution, autostereoscopic 3D visuals of complex structures, allowing for in-depth understanding of assembly and disassembly processes.

Interactive learning: Interactive elements enable users to manipulate components in a virtual environment, enhancing hands-on learning.

Cross-platform capability: The application supports multiple platforms and devices, ensuring accessibility and adaptability: VR/AR, 2D and Stereo 3D laptops, Stereo 3D tablet.

Error reduction: Helps reduce errors by allowing trainees to practice assembly in a risk-free setting, ensuring proficiency before handling real equipment.

Scalable training modules: Easily scalable to different equipment types and complexity levels, from small arms to large military systems.

Military-grade development and support: Developed to meet strict military specifications, ensuring reliability and accuracy with comprehensive support for integration.

3D STAGER

COLLABORATIVE 3D ENVIRONMENT

VEX
HUNGARIAN DEFENCE
EXPORT AGENCY LTD.

3D STAGER

KEY FEATURES

Real-time collaboration:	Facilitates enhanced decision-making with multi-user interaction, allowing teams to plan and simulate in a shared virtual space.
User-friendly interface:	Simplifies use for professionals in various fields without needing specialized training, making it accessible for military strategists and planners.
Wide compatibility:	Accommodates various file formats and integrates seamlessly with existing systems, enhancing operational flexibility.
Interactive learning:	Engages users and improves retention by enabling active exploration and modification of 3D models, ideal for training and educational purposes.
Strategic visualization:	Enables the creation of detailed tactical plans using realistic 3D visualizations of actual terrains, providing a strategic advantage in military operations.

DETAILS

3D Stager is an advanced tool for collaboratively creating and testing 3D environments, perfectly suited for military, educational, and professional use. It allows for comprehensive visualization of entire battlefields or terrains in stereo 3D, using drone and satellite imagery to facilitate simple planning and simulation of military movements.
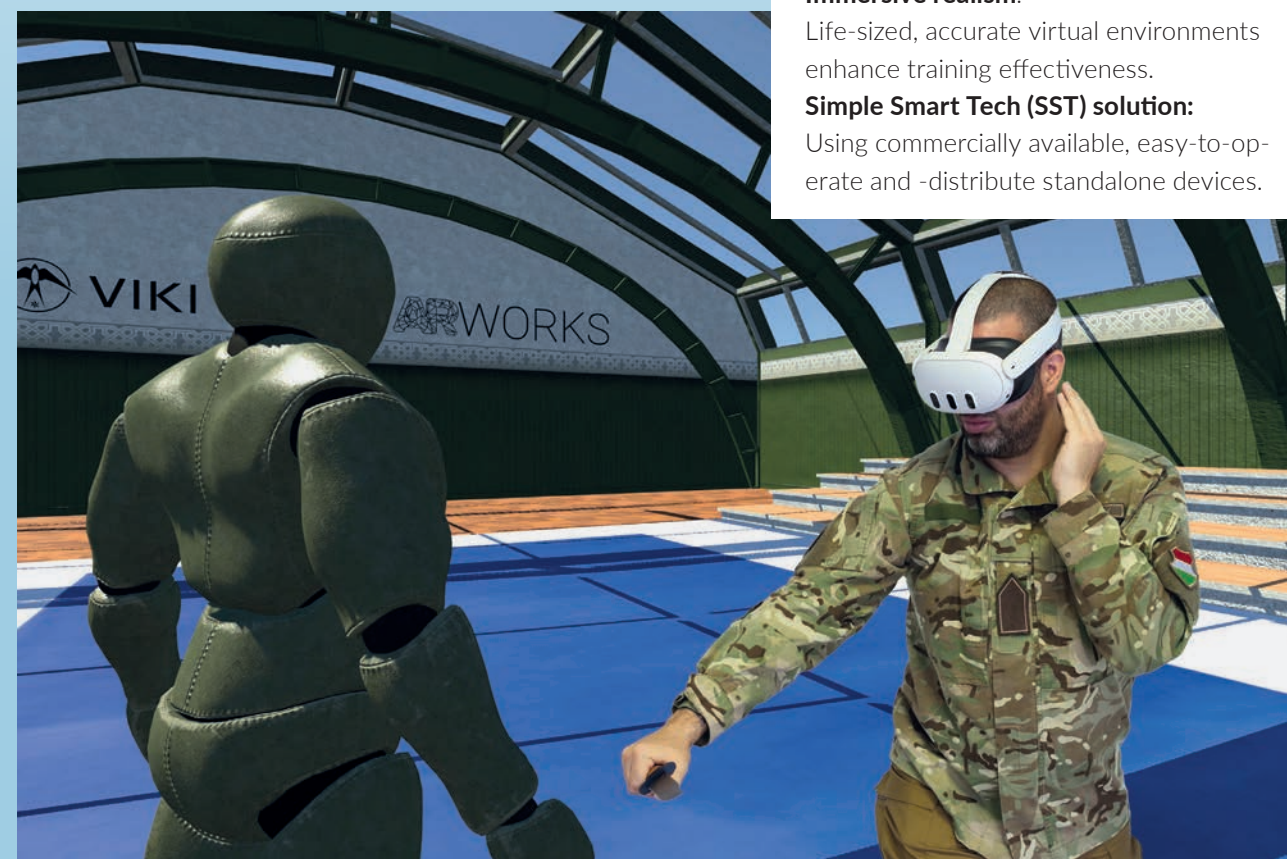

BLADE VR^SST

MASTERING KNIFE COMBAT WITH VIRTUAL REALITY

VEX
HUNGARIAN DEFENCE
EXPORT AGENCY LTD.

BLADE VR^SST

DETAILS

Experience the future of close combat training with Blade VR^SST, a state-of-the-art Virtual Reality simulator designed to hone the essential skills of knife fighting without any risk of injury.

Zero injury risk:
Train intensively without physical harm.
All-in-one VR system:
No additional equipment needed.
Scalable training solution:
Easily deployable to any number of soldiers.
Automatic skill integration:
Develops motor reflexes for instinctive action.
Fully self-sufficient:
No need for trainers, opponents, or large spaces.
Immersive realism:
Life-sized, accurate virtual environments enhance training effectiveness.
Simple Smart Tech (SST) solution:
Using commercially available, easy-to-operate and -distribute standalone devices.

KEY FEATURES

AR and VR view:	Maximizing benefits of both technologies
Instant feedback:	Immediate correction on precision and technique.
Comprehensive performance tracking:	Detailed analysis of each session.
Dynamic targets:	Realistic, moving torso enhances reaction and accuracy.
Developed by professionals:	Developed in collaboration with military combat experts to ensure authenticity and effectiveness.

DEFTECH XR

ADVANCED EXTENDED REALITY TRAINING SOLUTIONS

VEX
HUNGARIAN DEFENCE
EXPORT AGENCY LTD.

KEY FEATURES

Realistic simulations:	Hyper-realistic, 3D environments for immersive training that replicates real-world conditions without the risks.
Cost-effective training:	Reduces the need for physical resources and logistical preparations, significantly lowering training costs.
Scalable and flexible:	Easily adaptable to different scopes and sizes of military units, with capabilities for both small teams and large-scale operations.
Military-grade development and support:	Designed to meet stringent military standards, ensuring robustness and reliability with dedicated technical support and development for seamless operational integration.

DETAILS

DefTech XR combines our innovative DEFTECH Framework, LeoXR SDK, and LeoXR 360 Safety Framework to provide state-of-the-art AR and VR training solutions. These platforms are integrated to develop customized training modules for a spectrum of military operations, from basic equipment handling to advanced tactical manoeuvres.

HOLOKIT

SITUATION SIMULATIONS WITH MIXED REALITY TECHNOLOGY

VEX
HUNGARIAN DEFENCE
EXPORT AGENCY LTD.

KEY FEATURES

Full-metal replica handgun with custom sensors – Implemented for XR solutions.

Instant switching between Mixed Reality and Virtual Reality.

Cordless, using high-end PC performance, photorealistic rendering, comfortable usage.

DETAILS

The essence of the application is that during usage, users can see the real environment, which is further augmented and overlaid with virtual content, in operation. To enhance the level of reality, we integrated the closest possible copy of a firearm into the system. The physical firearm can reproduce the feeling of a real firearm by giving recoil and a firing sound when the trigger is pulled. The advantage of the application is that it is portable and may be used anytime and anywhere. Possibilities are endless, any tool or weapon can be integrated later.

HoloTED

HOLOTED XR-BASED OPERATIONAL TRAINING SYSTEM

VEX
HUNGARIAN DEFENCE
EXPORT AGENCY LTD.

DETAILS

HoloTED is an advanced XR training and simulation system that enables safe and realistic practice of assembling, disassembling, and maintaining tactical equipment and combat vehicles. The system can fully replicate existing or planned assembly, logistics, or vehicle maintenance processes based on real 3D models (.fbx, .obj, .dae, .glb formats supported).

With the HoloTED editor, scenarios can be built easily using a simple drag-and-drop method. The system allows the integration of work instructions, takt times, voice commands, warnings, images, and videos, enabling the creation of complex defense industry assembly processes without any programming knowledge.

The XR headset is capable of tracking hand movements without controllers or additional sensors, making the simulation even more lifelike. Users can progress step-by-step through the training phase with visual and audio guidance, while also receiving ergonomic warnings in case of unsafe working positions (e.g., avoiding overhead work).

At the end of the simulation, the system provides a detailed evaluation of performance, time results, efficiency, and takt time compliance. Route analysis is also available (e.g., in the form of a spaghetti diagram). After the practical training, an examination phase is available, which assesses readiness without any assisting functions.

HoloTED's Mixed Reality (MR) feature makes it possible to display equipment or vehicles that have not yet been delivered, directly in the real environment. Existing processes and scenarios can be easily modified within the editor, enabling rapid testing of new military technology solutions and layouts.

KEY FEATURES

Feature	Description
Model Formats	.fbx, .obj, .dae, .glb
Supported Media Content	Images (.jpg, .png), videos (.mp4), voice commands (.wav, .mp3)
Interaction	Hand-tracking (controller-free operation)
Editor Platform	Windows PC application (Windows 10 or newer)
Ergonomic Warnings	Yes
Measured Data	Time tracking, takt time compliance, number of errors, efficiency
MR Support	Yes – digital models placed in the real environment
Exam Mode	Yes – without assisting functions
System Requirements	Min. Meta Quest 2 or similar VR headset
Recommended Working Area	Minimum 5 x 5 meters of free space

SKILLTOOLKIT LIVE!

VEX
HUNGARIAN DEFENCE
EXPORT AGENCY LTD.

PRACTICE-ORIENTED eLEARNING PLATFORM

T-72   Leopard 2A
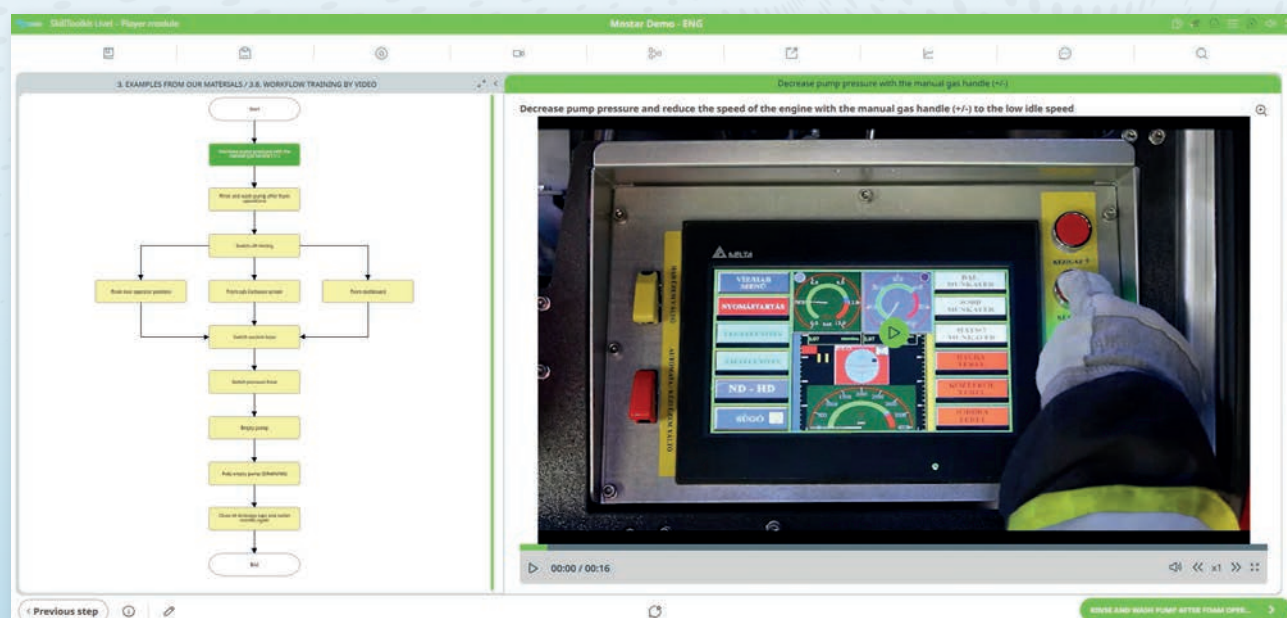
DETAILS

The SkillToolkit Live! software is a practice-oriented eLearning platform. In addition to the complete management of digital trainings and exams, it also provides the creation of highly effective eLearning materials in a single combined solution. Its unique capability is to provide a fast and low-risk of-error solution to keep training materials up to date. SkillToolkit Live! has a proven track record in the Defence & Security sector for over nine years, and it is the official eLearning platform of the Hungarian Defence Forces.

KEY FEATURES

The SkillToolkit Live! is particularly effective in the following areas:

- operation and maintenance of various technical equipment, weapons, tools, machinery, vehicles, software usage;

- proper implementation of work processes, protocols and procedures;

- onboarding training of new employees;

understanding and memorising legislation, organisational, professional rules, principles etc.

SNIPER VR^{SST}

VEX
HUNGARIAN DEFENCE
EXPORT AGENCY LTD.

PRECISION RIFLE SETUP SIMULATOR
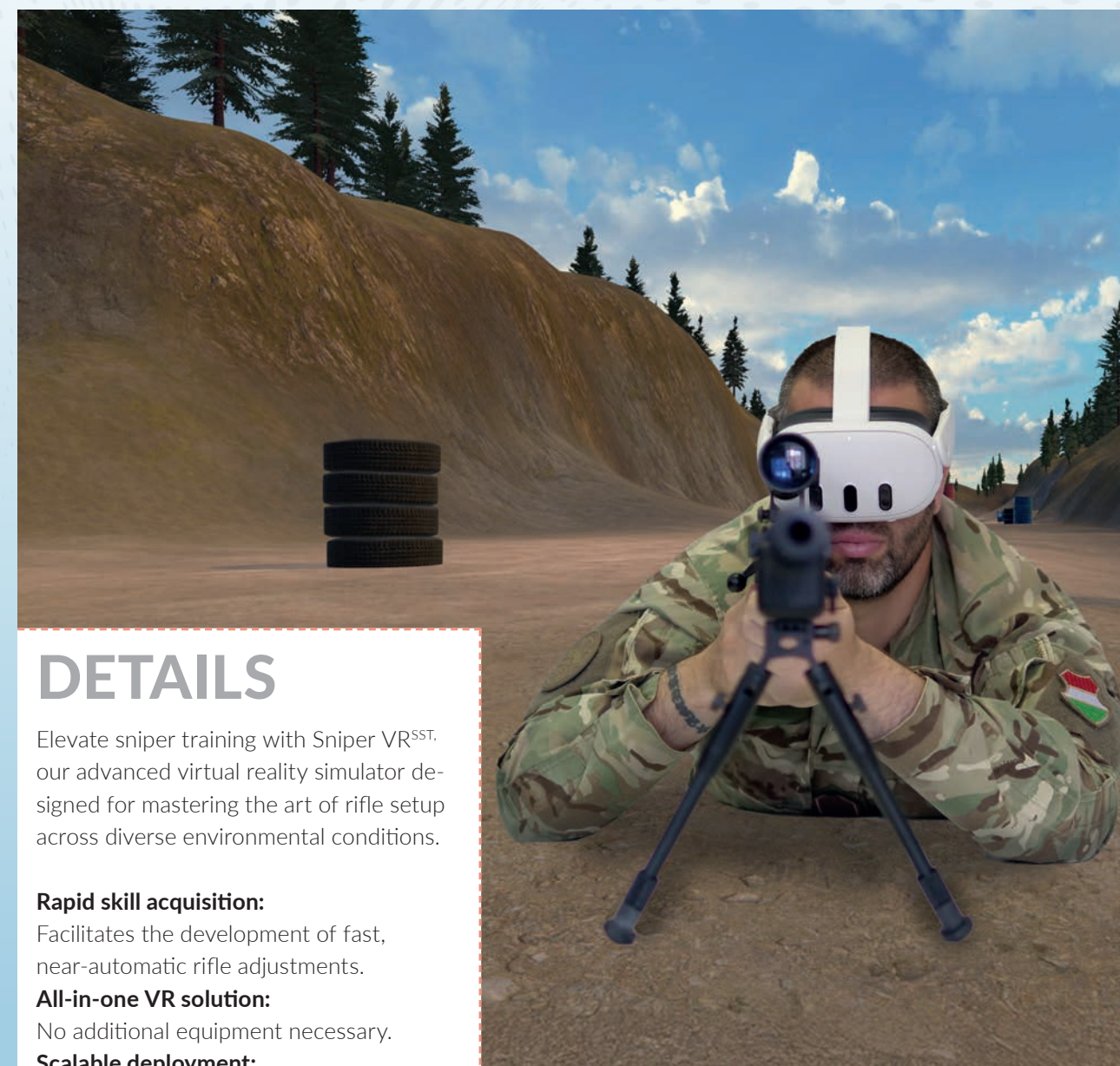
DETAILS

Elevate sniper training with Sniper VR^{SST}, our advanced virtual reality simulator designed for mastering the art of rifle setup across diverse environmental conditions.

Rapid skill acquisition:
Facilitates the development of fast, near-automatic rifle adjustments.
All-in-one VR solution:
No additional equipment necessary.
Scalable deployment:
Easily accessible for training large numbers of soldiers.
Motor reflex integration:
Embeds essential skills deep into muscle memory.
Immersive training environment:
Life-sized, realistic settings enhance learning and engagement.
Simple Smart Tech (SST) solution:
Using commercially available, easy-to-operate and -distribute standalone devices.

KEY FEATURES

|	
Dynamic scenario inputs:	Adapts to real-time changes in target distance, wind, temperature, and more, mimicking real-world conditions.
Developed with NATO experts:	Created in collaboration with NATO sniper trainers to ensure authenticity and effectiveness.

VIRTUAL PROTOTYPING

SIMULATION & TESTING INDUSTRIAL AUTOMATION

VEX
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EXPORT AGENCY LTD.
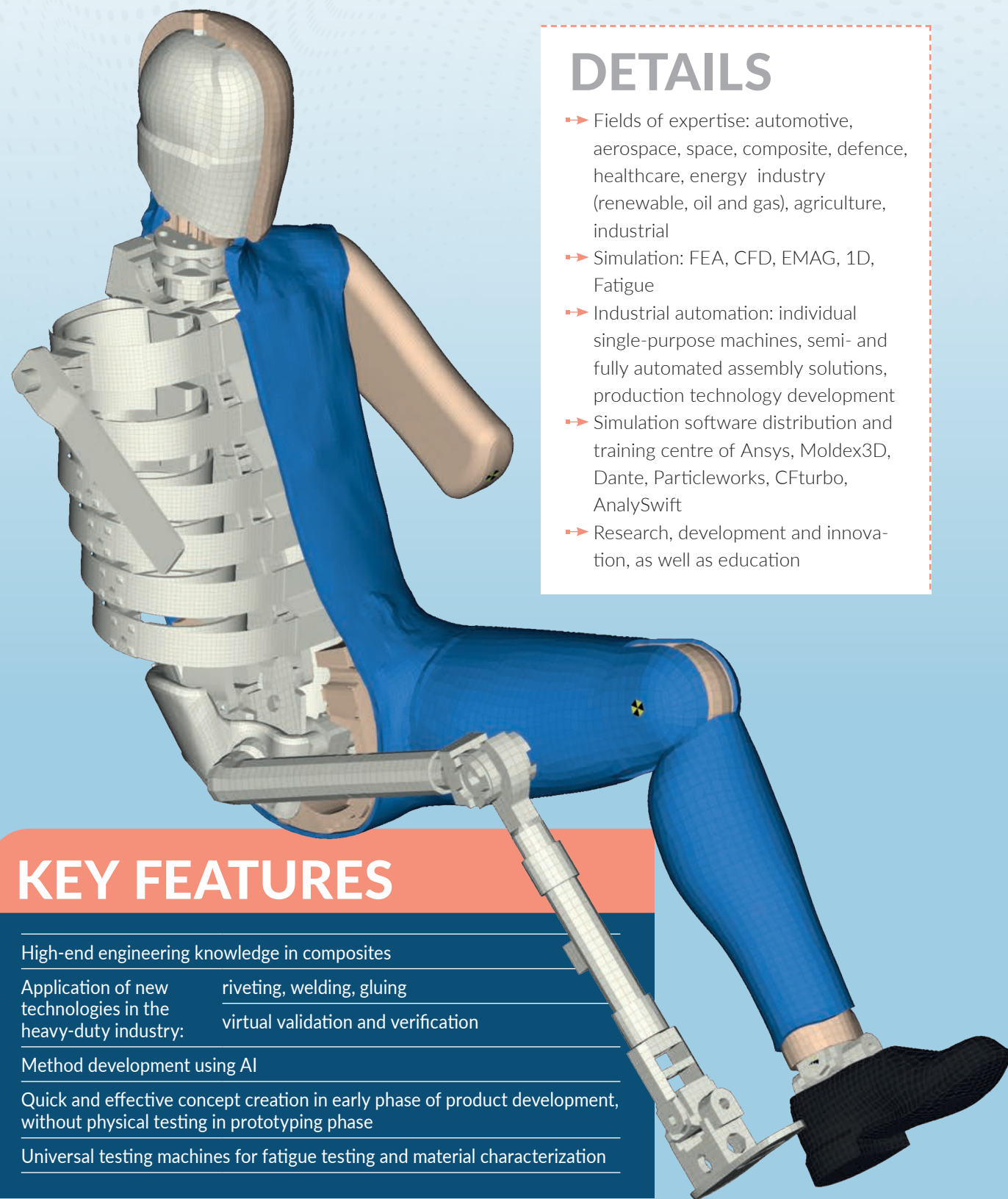
DETAILS

➤ Fields of expertise: automotive, aerospace, space, composite, defence, healthcare, energy industry (renewable, oil and gas), agriculture, industrial

➤ Simulation: FEA, CFD, EMAG, 1D, Fatigue

➤ Industrial automation: individual single-purpose machines, semi- and fully automated assembly solutions, production technology development

➤ Simulation software distribution and training centre of Ansys, Moldex3D, Dante, Particleworks, CFturbo, AnalySwift

➤ Research, development and innovation, as well as education

KEY FEATURES

High-end engineering knowledge in composites

| Application of new technologies in the heavy-duty industry: | riveting, welding, gluing |
| | virtual validation and verification |

Method development using AI

Quick and effective concept creation in early phase of product development, without physical testing in prototyping phase

Universal testing machines for fatigue testing and material characterization

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VR IMMERSION

VR TRAINING FOR MODERN COMBAT SCENARIOS

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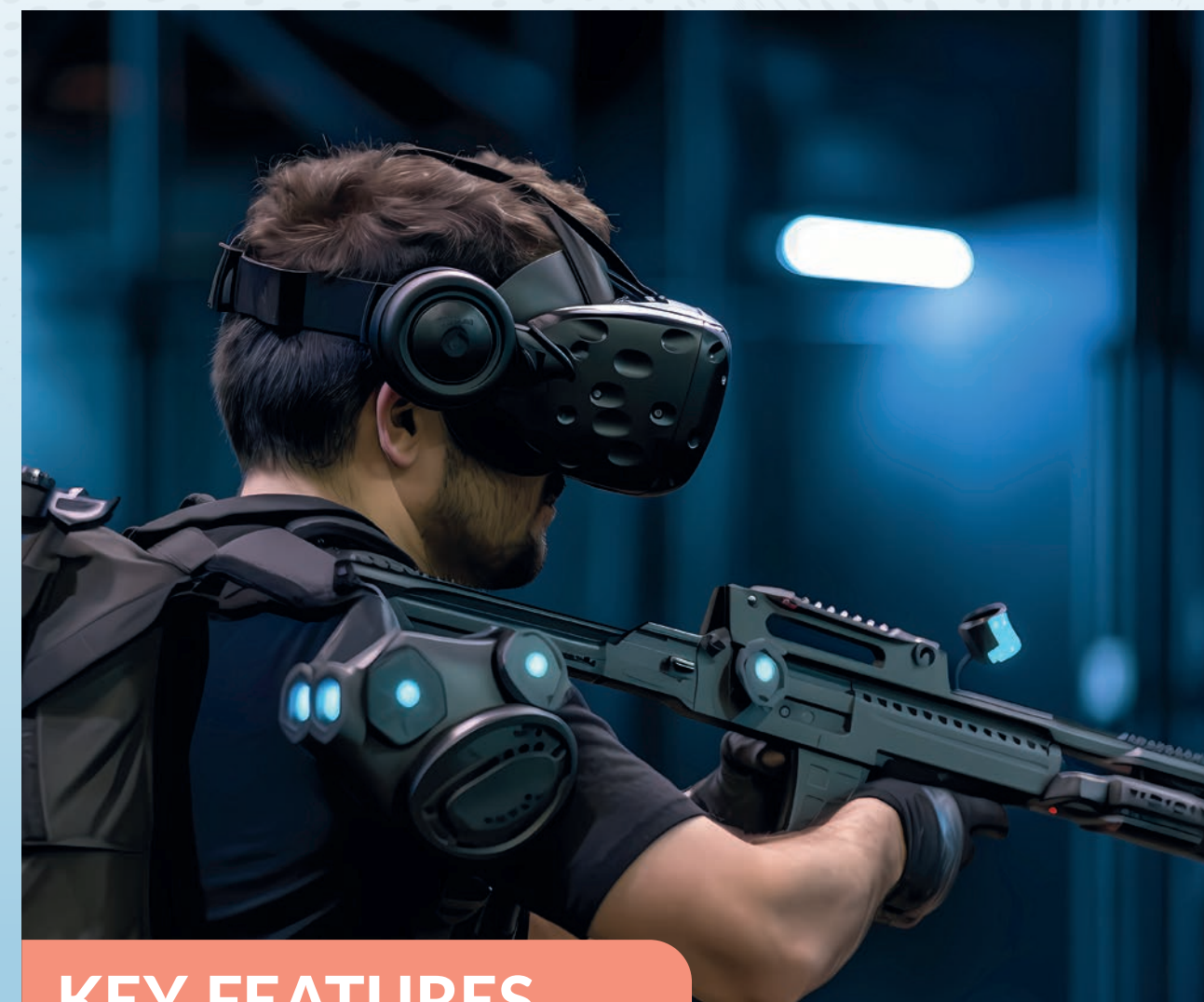
KEY FEATURES

Immersive learning:	Engage in fully immersive virtual environments that mimic the intensity and unpredictability of street-level combat.
Enhanced situational awareness:	Trains soldiers in maintaining awareness in dynamic and potentially chaotic environments to make informed decisions under pressure.
Adaptable scenarios:	Flexible scenarios that can be adjusted to reflect current threats and tactics, ensuring training remains relevant to modern warfare.
Military-grade development and support:	Built to military specifications with robust software architecture, providing ongoing updates and support for seamless integration into training programs.

DETAILS

VR immersion in modern combat training allows soldiers to experience realistic battlefield scenarios in a safe, controlled environment. By simulating high-pressure situations, it enhances decision-making, stress management and tactical response. The immersive nature of VR helps build muscle memory and improves overall readiness without real-world risks. This technology is revolutionizing how military personnel prepare for combat.

CMS

INTEGRATED CRISIS MANAGEMENT TRAINING SIMULATOR

VEX HUNGARIAN DEFENCE EXPORT AGENCY LTD.

KEY FEATURES

In the complex environment, not only tasks are practiced, but also the communication and cooperation between different organizations.

CMS includes several subsystems:	constructive and virtual simulators,
	replicas of real systems, such as an Early Warning Monitoring system,
	on-board reconnaissance software,
	life detectors etc.

Using data exchange gateways, all components see a common virtual environment and exchange data and events.

DETAILS

CMS is a Synthetic Training Environment which provides a realistic and complex training and modelling environment to train various parties of managing a crisis:

➦ law enforcement,
➦ intervention units of critical infrastructures,
➦ politician decision makers, local authorities.

GTS VR TACTICAL SIMULATION PLATFORM

VEX HUNGARIAN DEFENCE EXPORT AGENCY LTD.

DETAILS

Based on advanced VR technology and backed by scientific research, GTS is a personalised and holistic tactical simulation platform. The GTS system is a fully customizable cost-effective training tool for dismounted soldiers, law enforcement officers, and special forces operators.

KEY FEATURES

Team, individual tactical and communication skill development up to 8 people.

Military, law-enforcement, and security scenarios (basic set and on demand).

Stress tolerance improvement with full immersivity, physiological measurements.

Accurate weapons and weapon systems for muscle memory training.

Instructor workstation for in-action interaction and measurement.

Millisecond level action capture, measurement, and playback for After Action Review and AI analysis.

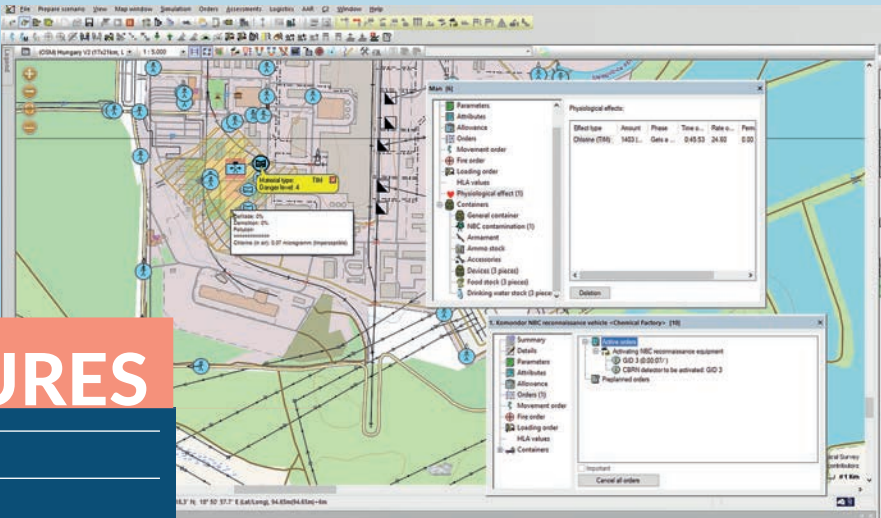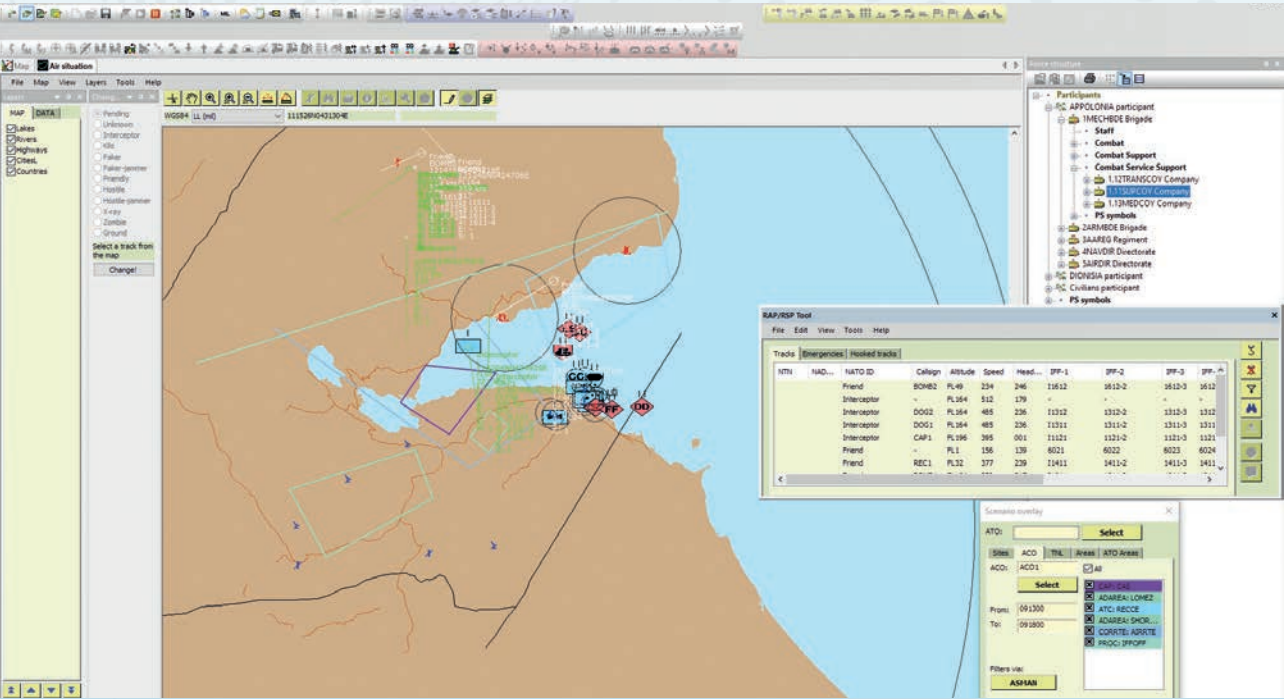Capable from shooting tuition to special forces and SWAT training.

Customizable for specific requirements (weapons, environments, training tasks).

MARCUS

CONSTRUCTIVE SIMULATION

VEX
HUNGARIAN DEFENCE
EXPORT AGENCY LTD.

MARCUS

KEY FEATURES

Air forces, air defence forces

Naval forces

Logistic (transport, medical, engineering)

CBRN

OOTW

Urban operations

Computer-generated civil environment

Disaster management

Anti-terrorist operations

Homeland security

Critical Infrastructure Protection

DETAILS

The CAX (Computer Aided eXercise) driver and combat simulation system is now one of the world's most sophisticated entity and aggregate level commander and staff training simulator system. MARCUS is a joint, constructive simulation model, with military and non-military (disaster management, critical infrastructure protection etc.) activities.

THE NERVOUS SYSTEM OF MILITARY OPERATIONS

C4ISR

CONTENTS

KAIBOU

IN-HOUSE MALWARE MANAGEMENT CAPABILITY

VEX
HUNGARIAN DEFENCE
EXPORT AGENCY LTD.

DETAILS

The Kaibou product provides in-house malware handling capabilities. In our experience, nation states' cyber defense measures against malware are limited to collecting daily/weekly/monthly reports. Law enforcement agencies are typically unprepared to quickly and effectively detect a potential malware attack, recover from it, and even identify the perpetrator from the traces left behind. Moreover, existing market solutions do not guarantee confidentiality in this sensitive manner. Product Kaibou does just that: provides on-premise tools and in-house capabilities to handle the most dangerous elements of cyber-warfare, while maintaining the highest level of customer security and confidentiality. The product has three components:

➤ **Kaibou Repository:** Over 750 million malware samples from the past 20 years, written for IT, OT, and IoT environments. Samples can be searched in the database in a matter of seconds, even based on similarity.

➤ **Kaibou Laboratory:** A safe and secure environment for analysing malware samples. It includes both software and hardware elements, a world-class toolkit that can be customized to customer needs.

➤ **Training:** We train our clients' experts not only to use the Repository and Laboratory, but also to understand the methodology and logic of malware analysis in general. Training can range from introductory, general knowledge to highly specialized cyber defense topics to advanced experts. The length of the training can vary from 10 to 20 days.

We provide support and malware feed for 2 years after purchase. Each product component can also be purchased separately.
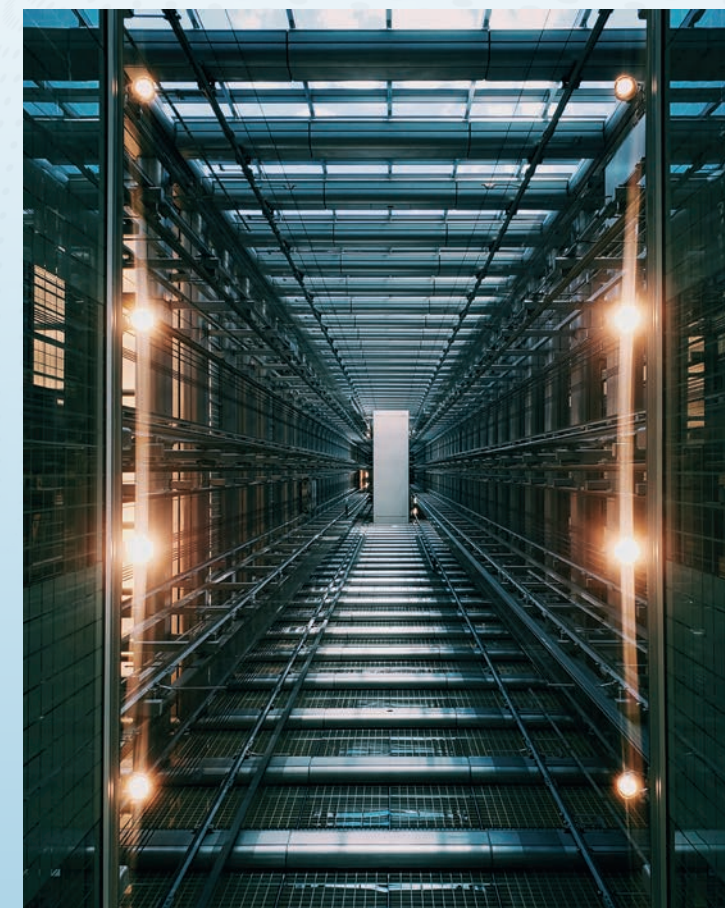
KEY FEATURES

| KAIBOU Repository	
Sample	750+ million malware (700 TB)
MW types	trojan, worm, virus, adware, miner, phishing, downloader, pua, hacktool, dropper, ransomware, fakeav etc.
Feed	~150 000 / day (150 GB)
KAIBOU Laboratory	
Platform support	Windows, Unix, MacOS, iOS and Android
Sandbox types	virtual, physical
Analysis tools	encoding and decoding, file analysis and unpacker, disassembler, decompiler, debugger, symbolic analysis, taint analysis, fuzzer, disc forensic, memory forensic, network analysis etc.

BRAND PROTECTION/ WATCHDOG

VEX
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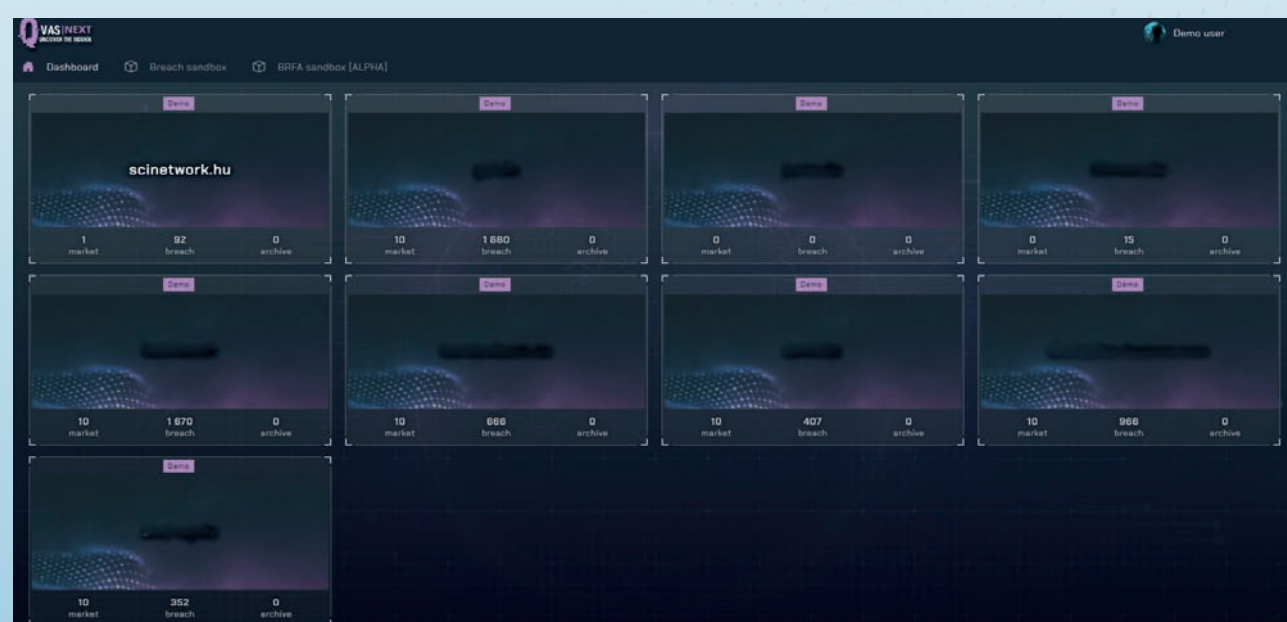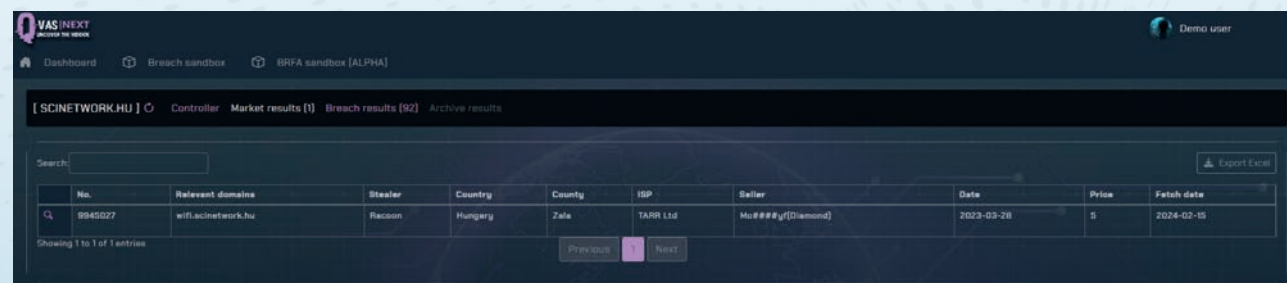
DETAILS

The WatchDog service is a basic building block of our Qvas Brand Protection package. WatchDog searches for all customer's domains on DarkWeb to find leaked data originating from data theft. The number of searches is set by the customer. We recommend frequent searches. The stolen data on DarkWeb can include email addresses, email users' birthdays and physical addresses etc. We also search for email address passwords. Brute force attacks accelerate if stolen passwords help discover the type of passwords users would use.
The Watchdog sends alerts if the customer's domains and related confidential data are found.

Alerts should initiate:
➤ countermeasures against insider threats (malicious employees)
➤ targeted information security training for employees
➤ proactive actions for threat prevention and mitigation.

COMPUTER VISION AI

GAIT & BEHAVIOR ANALYTICS SYSTEM

VEX
HUNGARIAN DEFENCE
EXPORT AGENCY LTD.

DETAILS

Our computer-vision AI identifies individuals and detects suspicious behavior by analyzing motion patterns as well as body dimensions and posture from standard video footage.

KEY FEATURES

KEY CAPABILITIES

Person identification by gait and body analysis

Suspicious-behavior detection (e.g., nervous movements, sudden flight)

Access-control reinforcement: flags tailgating and mismatched RFID/NFC card use

Crowd & Perimeter Surveillance around critical infrastructure

Field integration with body-cams, helmet cameras, and autonomous drone swarms.

OUR TECHNOLOGY OPERATES EFFECTIVELY UNDER VARIOUS CONDITIONS, INCLUDING

Daylight or darkness

When individuals are masked

If the video resolution is too low for face recognition.

TYPICAL USE CASES

Securing power plants, embassies, and military bases

Spotting people of interest in crowds

Detecting anxious or fleeing behavior in airports and public venues.

PGSR-3I 'BEAGLE' MK II.

MAN-PORTABLE GROUND SURVEILLANCE RADAR

VEX
HUNGARIAN DEFENCE
EXPORT AGENCY LTD.

DETAILS

The PGSR-3i 'Beagle' Mk. II. is a unique lightweight man-portable radar, capable of intercepting, detecting and tracking targets moving on or close to the ground. It is capable of classifying and differentiating targets based on their size and movement characteristics. This radar is the ideal choice for border guard, military and combat duties.

➤ Durable, withstands harsh environmental conditions.

➤ Portable in backpacks by two-man teams or can be mounted on mast/vehicle.

➤ Can be set up and made ready for operation within five minutes

KEY FEATURES

Detection ranges	Soldier	10 km
	Road vehicle	15 km
	Helicopter	18 km
	Large vehicle	24 km
Scan rate	7°/sec or 14°/sec or 22°/sec	
Accuracy	Range	+/−10 m at 5 km range
	Azimuth	≤ 0.3°
Target capacity	600 plots can be displayed	
Frequency band	X Band (NATO I/J Band)	
Power requirements	28 VDC (22–33 VDC) max. 65 W	

PGSR-3IFT 'BEAGLE' MK. II.

TOWER-MOUNTED GROUND SURVEILLANCE RADAR

VEX
HUNGARIAN DEFENCE
EXPORT AGENCY LTD.

DETAILS

The PGSR-3iFT 'Beagle' Mk. II. is a tower-mounted radar detecting, tracking and classifying targets, moving on or close to the ground.

➤ Designed for operations in deserts and harsh environments.

➤ Placed inside a hermetically sealed radome to withstand extreme weather conditions.

➤ Mounted on top of towers, providing 360° coverage, observing and collecting information from the surrounding area.

KEY FEATURES

Detection ranges	Soldier	10 km
	Road vehicle	15 km
	Helicopter	18 km
	Large vehicle	24 km
Scan rate	7°/sec or 14°/sec or 22°/sec	
Accuracy	Range	+/−10 m at 5 km range
	Azimuth	≤ 0.3°
Target capacity	600 plots can be displayed	
Frequency band	X Band (NATO I/J Band)	
Power requirements	28 VDC (22–33 VDC) max. 100 W	

PASR-17C POINTER

VEX
HUNGARIAN DEFENCE
EXPORT AGENCY LTD.

PCL RADAR SYSTEM

DETAILS

The PASR-17C 'Pointer' is a short-to-middle range Passive Coherent Locator (also known as passive radar) for air surveillance applications.

As a passive radar, while detecting moving targets, the radar utilises existing radio frequency sources in the environment, instead of actively illuminating the surveillance area. The utilised illuminators, or so-called Illuminators of Opportunity (IoO) are typically broadcasting signals. Since the radar has no RF emission, it is able to operate fully covertly without the need of frequency authorization.

➡ Low system and maintenance costs.
➡ Easy integration with command and control systems.

KEY FEATURES

Illuminators of Opportunity	DVB-T	FM
Detection ranges		
Mini UAS	8 km	–
Small UAS	15 km	–
Medium UAS	36 km	74 km
Helicopter	48 km	92 km
Aircraft	85 km	125 km
Detectable target velocity	≥ 5 km/h	≥ 30 km/h
Track update rate	0.1–1 sec	0.6–2 sec
Azimuth coverage	90°	360°
Elevation coverage	90°	80
Range resolution	39 m	1500 m

GASR-3D 'TERRIER'

VEX
HUNGARIAN DEFENCE
EXPORT AGENCY LTD.

COUNTER-UAS GROUND & AIR SURVEILLANCE RADAR

DETAILS

The GASR-3D 'Terrier' is the next generation Counter-Loitering Munition/UAS/Drone solution. The radar is capable of simultaneously detecting, tracking and classifying loitering munition, UAS/Drone, helicopter, aircraft and ground targets (humans, vehicles etc.). In V-SHORAD configuration, the system detects and recognizes aerial threats and provides target information for the fire control system. The principle of operation is Frequency Modulated Continuous Wave (FMCW) technology with DBF enabling high MTBF. The radar utilizes a unique AESA transmitter. Low power transmission and continuously changing frequency provides Low Probability of detection and Interception (LPI).

KEY FEATURES

Detection ranges	Micro UAS (RCS 0.01–0.05 m²)	2.3–3.5 km
	Soldier (RCS 1 m²)	7.3 km
	Vehicle (RCS 5 m²)	11 km
	Helicopter (RCS 10 m²)	13 km
	Tank (RCS 50 m²)	19.5 km
Accuracy	Range	4 m
	Azimuth	0.4°
	Elevation	0.5°
Operation principle	FMCW – Doppler with DBF, AESA, AI	
Azimuth coverage	90° with DBF staring beams (single plate unit)	
Elevation coverage	80° with AESA Tx	
Frequency band	X Band (NATO I/J Band)	

BORDERCAM-225

UNCOOLED MID-RANGE ELECTROOPTICAL CAMERA SYSTEM

VEX
HUNGARIAN DEFENCE
EXPORT AGENCY LTD.

DETAILS

The Bordercam is a mid-range electrooptical camera system. This unique system combines an advanced high-resolution uncooled continuous zoom thermal camera with a mid-range daylight camera on an accurate pan-tilt unit. Independent continuous zoom thermal and colour cameras provide maximum situational awareness, user-friendliness, and 24/7 threat assessment. The rugged design, certified to IP66, protects the camera against dusty and other harsh or industrial environments.

▸▸ Ruggedized for harsh environments
▸▸ TCP/IP interface, proprietary protocol

KEY FEATURES

Parameters	Daylight camera	Thermal camera
Sensor	Global shutter 2/3" CMOS	Uncooled LWIR 8–14 μm (<50 mK)
Resolution	2464×2056	1280×1024
Frame rate	Max. 30 fps	Max. 30 fps
Zoom	20× optical + 12× digital	9× optica + 4× digital
FoV	38.6–2.05°	34.8–3.85°
DRI (2.3 × 2.3 m NATO)	Detection: 30,000 m	Detection: 20,000 m
	Recognition: 20,000 m	Recognition: 7000 m
	Identification: 10,000 m	Identification: 3500 m

IFP

INTEGRATED RECONNAISSANCE PLATFORM FORWARD ARTILLERY OBSERVATION (FAO) SYSTEM

VEX
HUNGARIAN DEFENCE
EXPORT AGENCY LTD.

DETAILS

The 'IFP' Integrated Reconnaissance Platform is a complex sensor system combined with a unique single-mast solution for limitless operation.

The sensor system consists of a dual camera system with built-in LRF and a Ground Surveillance Radar as well as a heavy-duty Levelling Unit for compensating the slope of the vehicle. The entire platform is designed to withstand harsh environmental conditions in the area of operations without the need to dismount from the vehicle.

Forward Artillery Observation System

veloped in collaboration with the Hungarian Defense Forces Modernization Institute

h resolution daylight camera

accuracy laser range finder

Heavy duty Leveling Unit compensating ±15° inclination

que single-mast solution with full 360 degree surveillance or both sensors independently

NATO Class I accuracy

Determining the impact point of artillery shells (Fall of Shot)

High resolution, uncooled thermal camera

PGSR-3i 'Beagle' Ground Surveillance Radar

Integrated third party INS (Inertial Navigation System)

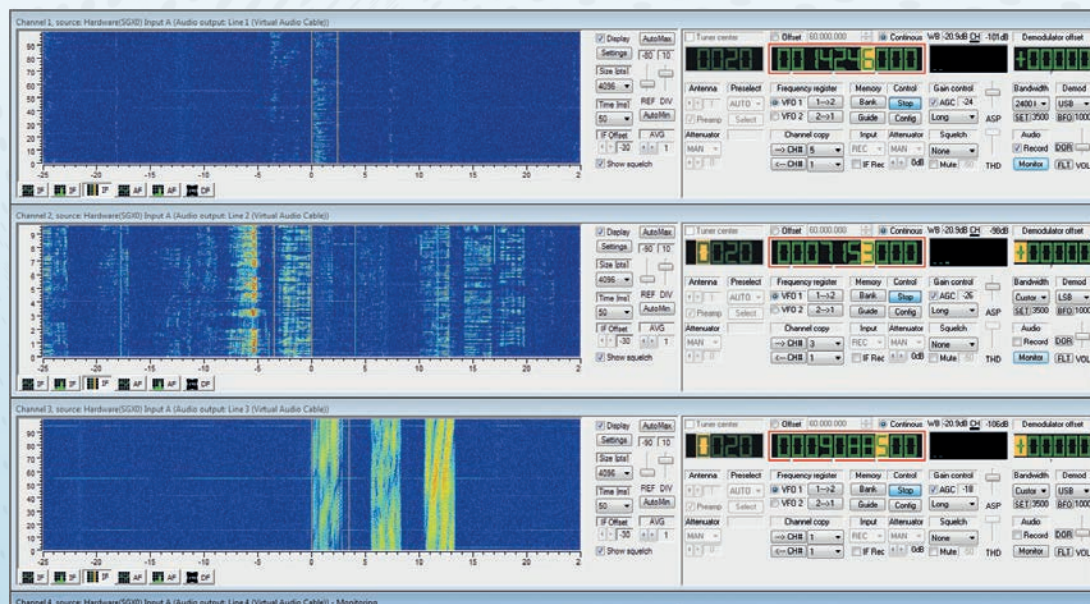Slew to cue: the camera system can automatically focus on targets detected by the radar

KEY FEATURES

The PGSR-3i Beagle Mk II. radar is mounted on the Levelling Unit with a special Rotator Unit which supports sectorial and continuous 360-degree scanning.

The Ground Surveillance Radar has a special artillery fire correction mode, which enables the system to detect and determine the coordinates of artillery shells with NATO Class-1 accuracy, and forward this information to fire control systems.

The high-resolution dual camera system consists of an uncooled thermal camera and a daylight camera with integrated Laser Range Finder (LRF) for accurately measuring target distances.

The Ground Surveillance Radar and the dual camera system are integrated into the Adaptive Multi Sensor (ADAMS) software.

SRM-3000

BROADBAND MONITORING RECEIVER

VEX
HUNGARIAN DEFENCE
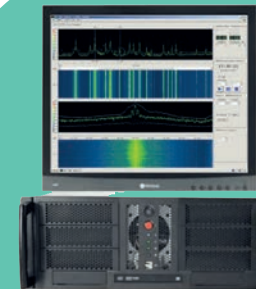EXPORT AGENCY LTD.

SRM-3000

DETAILS

The SRM-3000 is a broadband, digitally implemented monitoring receiver. With a frequency preselector, it can be used in HF bands as a direct digitized receiver. (DDR). The frequency range can be extended using a VHF/UHF receiver front-end tuner with wide-band IF output. The receiver digitizes the incoming signal in its instantaneous (real-time) bandwidth. Its digital receiver channels can be tuned to a given frequency in its real-time bandwidth. The data streams of the channels are processed by the digital demodulators, supporting the usual number of carrier modulation waveforms and bandwidths of wireless emitters. The receiver consists of the RF front-end, digitizer and data capturing unit implemented as a computer add-on card using desktop PCI form factor and the associated driver, signal processing and user interface software components. For forming a full-functional monitoring receiver, the basic components are installed in a high-grade industrial inter-face computer.

KEY FEATURES

Compact design with graphical user interface

Up to 40 MHz-wide instantaneous real-time bandwidth

Real-time IF panorama display by complex FFT algorithm

High channel selectivity by digital filtering

Excellent precision and sensitivity

Raw data IF and demodulator AF recording

Built-in direction-finding processor

Flexible compatibility for system integration

SRS-3000

HF/VHF/UHF RECEIVER

VEX
HUNGARIAN DEFENCE
EXPORT AGENCY LTD.

SRS-3000

DETAILS

The SRS-3000 is a frequency-agile, light-weight HF/VHF/UHF receiver designed for limited space and high-mobility application for ground and air environments. Its compact size, broad tuning range and high-level remote-control functionality make it ideal for a multitude of system applications, including commercial frequency management and military EW/SIGINT/COMINT missions.

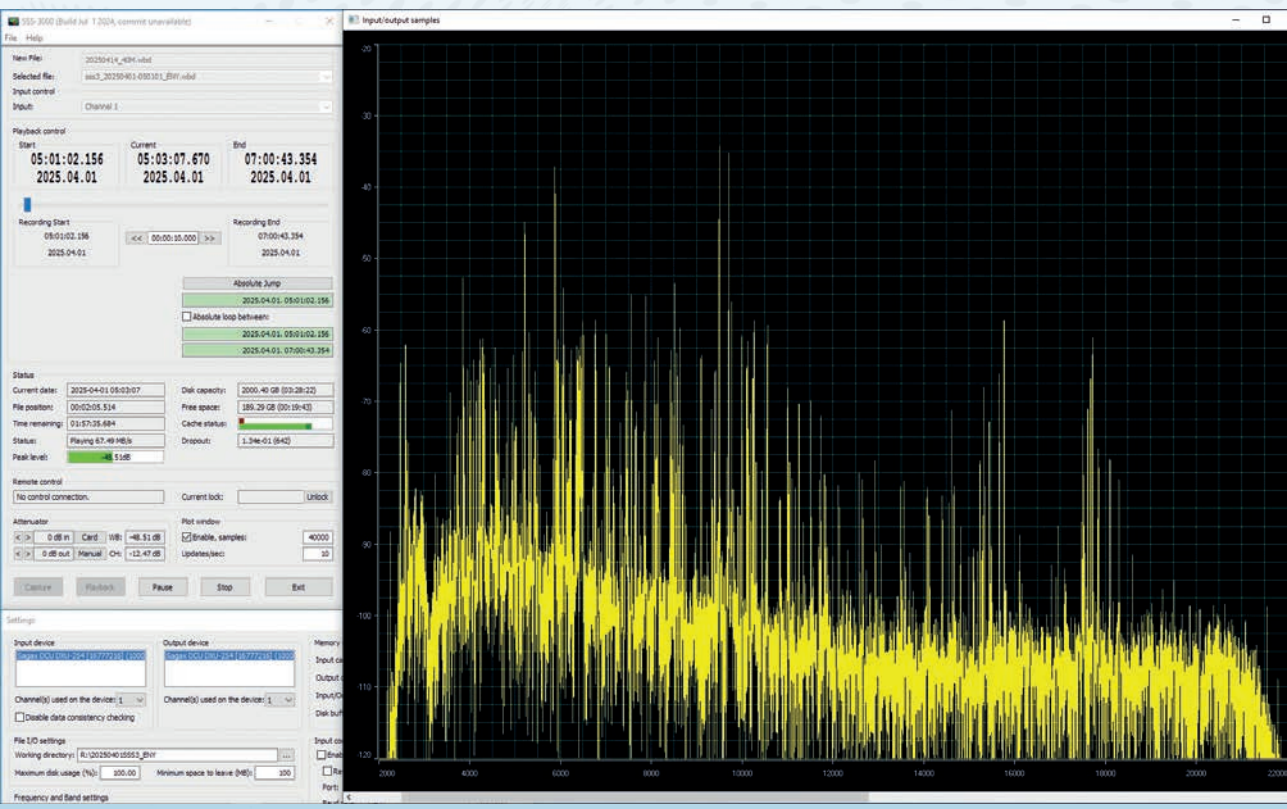The SRS-3000 receiver consists of the usual components of a digital fast-scanning intercept receiver:
➥ RF front-end
➥ HF/VHF digitizer
➥ digital filtering and
➥ digital signal processor.

KEY FEATURES

Compact design with graphical user interface

Up to 40 MHz-wide instantaneous real-time bandwidth

Down to 1 ms time resolution

Down to 1 kHz frequency resolution

Quasi real-time frequency spectrum

High probability of intercept

Wide-band direction-finding processor

Flexible compatibility for system integration

SSS-3000
RECORD AND PLAYBACK SERVER

VEX
HUNGARIAN DEFENCE
EXPORT AGENCY LTD.

SSS-3000

DETAILS

The equipment offers high-capacity, full-featured digital hard-disk signal record/playback capability in a compact 4U rack-mount case. The product is based on the well-proven Software Defined Radio (SDR) technology already deployed in a wide range of communication systems.

The storage server can be used to record and later play back the stored analogue signal with up to 40 MHz instantaneous bandwidth. The bandwidth of the recording can be reduced by the built-in digital tuner to increase the storage capacity. The storage server is able to operate in record or playback modes of operation. The format of the recorded file is available and a Matlab® interface is provided for off-line processing.

KEY FEATURES

- Compact design with easy-to-use graphical user interface
- Up to 40 MHz-wide instantaneous real-time bandwidth
- Digitally selectable recording bandwidth with tuneable centre frequency
- Analogue or digital input and output
- Up to 8 TB storage capacity in 4U
- Removable drives in 4U rack-mount units
- Stand-alone or network access
- Flexible compatibility for system integration

CYBER-PHYSICAL SYSTEM SECURITY
WHAT COMMUNICATES, CAN ALSO BE ATTACKED

VEX
HUNGARIAN DEFENCE
EXPORT AGENCY LTD.

DETAILS

Cyber-physical systems are not always built with security in focus, and these hybrid systems are threatened by being connected to a public network. Full-stack penetration testing is vital for devices that are to be used in military operations – whether they are small IoT devices, telecommunication tools, drones, vehicles or even whole facilities. We are qualified to test traditional IT infrastructure, cyber-physical or OT infrastructure, with external and internal evaluation in each case. We provide black box (zero-knowledge testing), gray box (testing from the perspective of an authorized user or testing with internal knowledge about the systems) and white box testing (analysis of the infrastructure components, applications and their configuration) as necessary.

KEY FEATURES

Clearances	NATO (secret), EU (secret), Hungarian national clearance (top secret)
Certs	OSCP, CREST, GPEN, CEH, ISO 9001, ISO 27001
Areas	hardware, smart devices, IoT, embedded devices, website, web app, mobile app, desktop app, API / backend, infrastructure and network, security design review etc.

CYBERSECURITY TRAINING & CONSULTING

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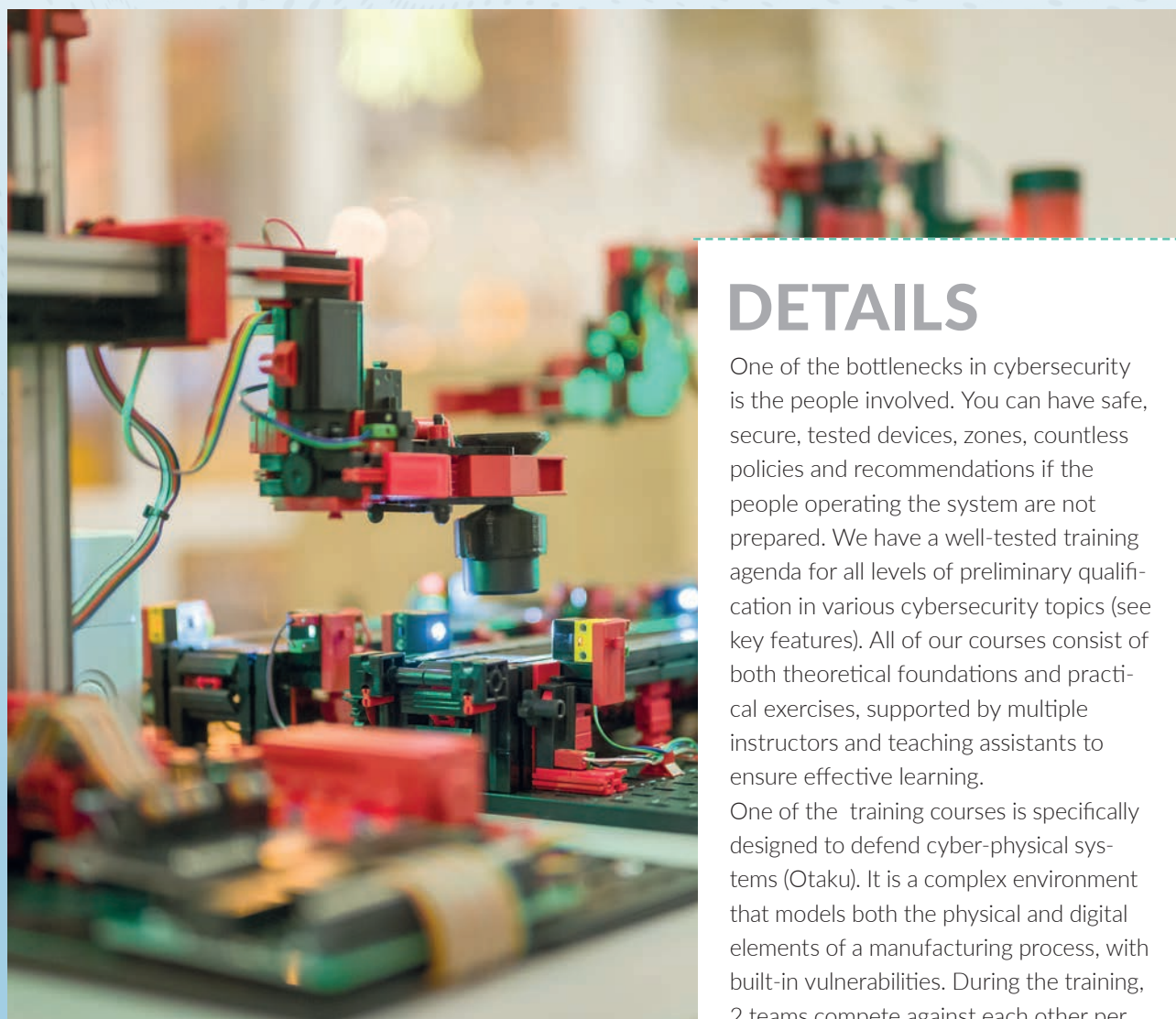
DETAILS

One of the bottlenecks in cybersecurity is the people involved. You can have safe, secure, tested devices, zones, countless policies and recommendations if the people operating the system are not prepared. We have a well-tested training agenda for all levels of preliminary qualification in various cybersecurity topics (see key features). All of our courses consist of both theoretical foundations and practical exercises, supported by multiple instructors and teaching assistants to ensure effective learning.

One of the training courses is specifically designed to defend cyber-physical systems (Otaku). It is a complex environment that models both the physical and digital elements of a manufacturing process, with built-in vulnerabilities. During the training, 2 teams compete against each other per table, the goal is to exploit vulnerabilities in the opponent's system, penetrate their defenses, disable the PLC and with that, the whole factory. In the meantime, each team has to defend their own system. Expert can and should prepare for cybersecurity attacks – while it's still a game.

If you need professional support beyond the training, you can also count on the experience of our experts in the form of consultations.

KEY FEATURES

Training topics	security awareness, malware analysis, digital forensics and incident response, offensive security training, cyber-physical system security, network security, applied cryptography
Levels	introduction – advanced – expert
Format	online, in person (even at client's premises)

SPACE/MISSILE/ AIR DEFENSE

CONTENTS

6 – 16U REMOTE SENSING/EARTH OBSERVATION SATELLITES

VEX HUNGARIAN DEFENCE EXPORT AGENCY LTD.

DETAILS

C3S provides turn-key space solution for remote sensing missions and data collection. Earth observation missions use satellites equipped with optical, multispectral, hyperspectral, SWIR and visible/NIR cameras and thermal sensors to collect geospatial data for Earth observation, with onboard AI-based data processing, if needed. The camera provides multispectral VIS and SWIR imaging with GSD ranging from 3 m to 16 m, depending on the satellite configuration. The satellites support environmental monitoring, disaster response and defense purposes.

C3S's remote sensing use case/WREN-1

Launched in August 2024, the 6U CubeSat WREN 1 supports precision agriculture monitoring in Hungary by identifying drought-prone areas through topsoil moisture and vegetation monitoring. Its multispectral imager (visible, near infrared, and short wave infrared) captures 16×16 m data over 10,000 km², including off nadir views for frequent updates. Processed images provide high resolution biophysical data, analyzed with machine learning to mitigate drought damage. The satellite has been fully operational since 2024, continuously transmitting data.

KEY FEATURES

CAMERA CAPABILITIES			
Multispectral, SWIR and visible/NIR cameras			
MS VIS + SWIR			
6U GSD:	16m		
16U GSD:	3m		

Double redundancy, soft degradation in all subsystems and a single-point failure tolerant design that increases lifetime and reliability; scalable and modular design, high-performance onboard computer and complete in-house integration and testing.

5-year design lifetime in LEO.

Specifications	Parameters	6U	8U	16U
Mechanical	Payload volume [liter]*	4.7	5.04	14.9
	Payload dimensions [mm]*	94×216.2×256	94×216.2×256	216.2×216.2×337
	Payload mass [kg]*	8.2	10	25
	Spacecraft mass [kg] *	4.3	5	7
Power	Payload power (Sun Tracking) [W]	45–175	45–175	140–505
ADCS	Absolute Knowledge Error (AKE) [deg]**	0.4–0.004		
	Absolute Performance Error (APE) [deg]**	0.6–0.017		
Communication	VHF, UHF/S-Band/X-Band/KA-Band	Yes	Yes	Yes

*Up to, depending on configuration. **Expressed at 1-sigma confidence level, magnitude (RSS of angular components).

6U PLATFORM

VEX
HUNGARIAN DEFENCE
EXPORT AGENCY LTD.

DETAILS

Small satellite platform that gained flight heritage in 2024 with the launch of WREN1.

➤ In-house developed structure and subsystems based on ECSS standards.
➤ 5-year design lifetime in LEO.
➤ Double redundancy and soft degradation in all subsystems.
➤ Single-point failure tolerant design.
➤ Soft degradation in all subsystems and a single-point failure tolerant design that increases lifetime and reliability.
➤ Turnkey solution that covers the whole mission (from planning until deorbiting).
➤ Structure optimized for high thermal dissipation density and thermo-elastic performance, both for the payload and the platform.

KEY FEATURES

	Parameters	6U
Mechanical	Payload volume [liter]*	4.7
	Payload dimensions [mm]*	94×216.2×256
	Payload mass [kg]*	8.2
	Spacecraft mass [kg] *	4.3
Power	Payload power (Sun Tracking) [W]	45–175
ADCS	Absolute Knowledge Error (AKE) [deg]**	0.4–0.004
	Absolute Performance Error (APE) [deg]**	0.6–0.017
Communication	VHF, UHF/S-Band/X-Band/ KA-Band	Yes

*Up to, depending on configuration. **Expressed at 1-sigma confidence level, magnitude (RSS of angular components).

8U PLATFORM

VEX
HUNGARIAN DEFENCE
EXPORT AGENCY LTD.

DETAILS

➤ In-house developed structure and subsystems based on ECSS standards.
➤ 5-year design lifetime in LEO.
➤ Double redundancy and soft degradation in all subsystems.
➤ Single-point failure tolerant design.
➤ Soft degradation in all subsystems and a single-point failure tolerant design that increases lifetime and reliability.
➤ Turnkey solution that covers the whole mission (from planning until deorbiting).
➤ Structure optimized for high thermal dissipation density and thermo-elastic performance, both for the payload and the platform.

KEY FEATURES

	Parameters	8U
Mechanical	Payload volume [liter]*	5.04
	Payload dimensions [mm]*	94×216.2×256
	Payload mass [kg]*	10
	Spacecraft mass [kg] *	5
Power	Payload power (Sun Tracking) [W]	45–175
ADCS	Absolute Knowledge Error (AKE) [deg]**	0.4–0.004
	Absolute Performance Error (APE) [deg]**	0.6–0.017
Communication	VHF, UHF/S-Band/X-Band/ KA-Band	Yes

*Up to, depending on configuration. **Expressed at 1-sigma confidence level, magnitude (RSS of angular components).

16U PLATFORM

VEX
HUNGARIAN DEFENCE
EXPORT AGENCY LTD.

DETAILS

Small satellite platform that gained flight heritage with the launch of MAUVE in 2025.

➤ In-house developed structure and subsystems based on ECSS standards.
➤ 5-year design lifetime in LEO.
➤ Double redundancy and soft degradation in all subsystems.
➤ Single-point failure tolerant design.
➤ Soft degradation in all subsystems and a single-point failure tolerant design that increases lifetime and reliability.
➤ Turnkey solution that covers the whole mission (from planning until deorbiting).
➤ Structure optimized for high thermal dissipation density and thermo-elastic performance, both for the payload and the platform.
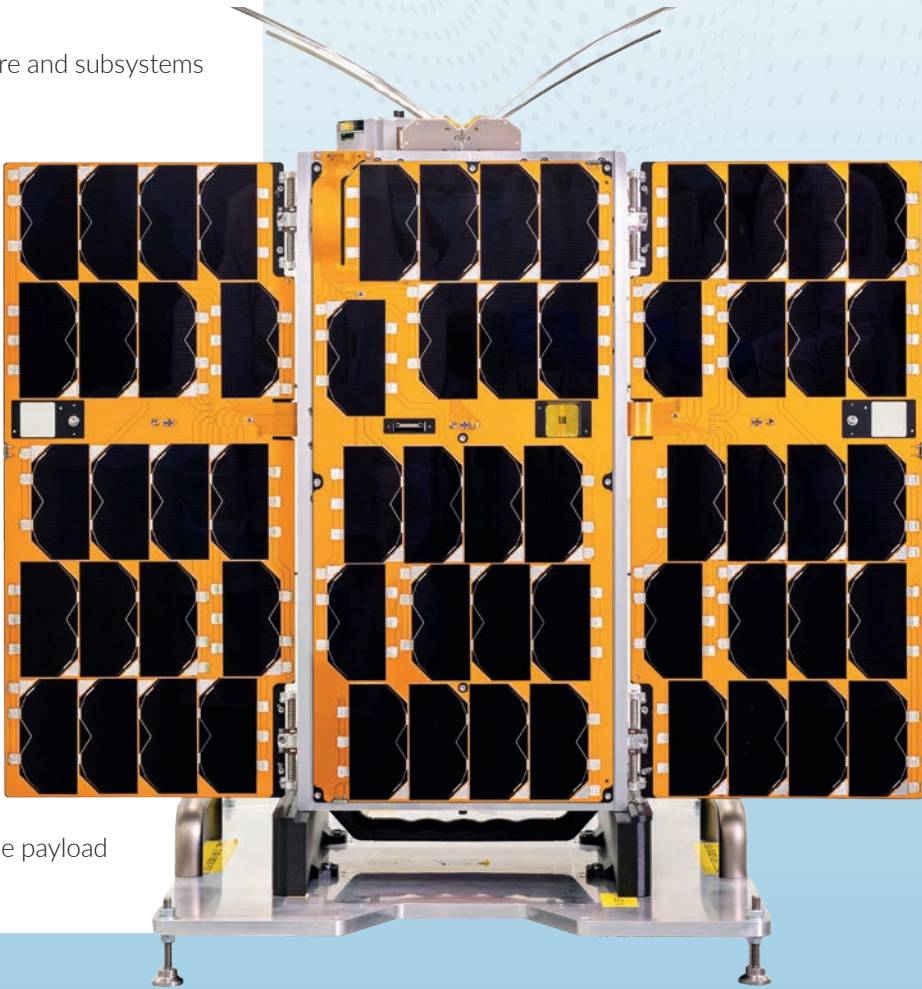
KEY FEATURES

	Parameters	16U
Mechanical	Payload volume [liter]*	14.9
	Payload dimensions [mm]*	216.2×216.2×337
	Payload mass [kg]*	25
	Spacecraft mass [kg] *	7
Power	Payload power (Sun Tracking) [W]	140–505
ADCS	Absolute Knowledge Error (AKE) [deg]**	0.4–0.004
	Absolute Performance Error (APE) [deg]**	0.6–0.017
Communication	VHF, UHF/S-Band/X-Band/KA-Band	Ye

*Up to, depending on configuration. **Expressed at 1-sigma confidence level, magnitude (RSS of angular components).

MISCELLANEOUS

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MISCELLANEOUS

CONTENTS

AUDIO JAMMER BOX

AUDIO JAMMER BOX

KEY FEATURES

UNIQUE FEATURES OF THE AJB:

➡ double-layered transparent and soundproof plexiglass box;

➡ sound generator (SG) in each AJB that makes it impossible for the phones/electronic devices to pick up on the conversation in the meeting room;

➡ the SG plays 6 different simultaneous audio tracks, all generated using random music and speech elements from several different languages;

➡ SG random patterns based on a unique burnt-in individual code for each SG, plus manually adjustable code at startup time.

DETAILS

Confidential conversations have to be protected against information leakage. The Audio Jammer Box (AJB) provides an ideal solution for isolating phones/electronic devices from the meeting environment.
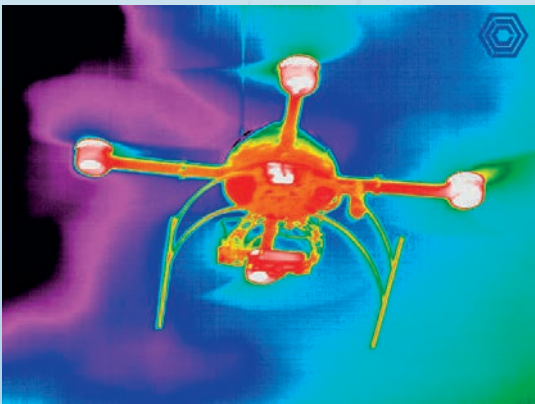
CYCLOPS

MILITARY-DESIGN HANDHELD MONOCULAR THERMAL CAMERA

VEX
HUNGARIAN DEFENCE
EXPORT AGENCY LTD.

CYCLOPS

KEY FEATURES

Thermal camera	
Spectral band	7 µm–14µm
Zoom	×2, ×4, ×8
Display	Monocular full-colour OLED 800×600
GPS (optional)	GPS & QZSS L1 C/A, GLONASSL1OF
WLAN (optional)	IEEE 802.11b/g, 2.4GHz
Digital Magnetic Compass	(1δ) 360°/±2.5°

DETAILS

➡ One of the best quality/price ratio portable reconnaissance thermal cameras with 640×480-pixel resolution in the market.

➡ The camera operates for 8 hours with one set of batteries; however, its weight (incl. batteries) does not reach 1.6 kg.

➡ The exceptionally bright lens detects a vehicle from more than 4000 m and a person from more than 2000 m.

➡ The device can be ordered with a 3D magnetic compass, a built-in GPS module, WLAN-communication and an LRF unit.

HIGH-SPEED COMPLEX PCB DESIGN

HIGH-SPEED COMPLEX PCB DESIGN

VEX
HUNGARIAN DEFENCE
EXPORT AGENCY LTD.

HIGH-SPEED COMPLEX PCB DESIGN

KEY FEATURES

Hardware Design Services:	System design
	Schematic capture
	Board design/PCB layout
	IBIS (AMI) simulation
Embedded Software Development:	MCU programming
	Embedded Linux BSP, device drivers
	FPGA programming
Other Services:	Mechanical design and simulation
	Small series high-end prototyping
	CE/FCC/MILSTD certification
	Functional test systems

DETAILS

The PCB Design company is an AS/EN 9100 certified, independent engineering service provider in Budapest/Hungary with a focus on complex electronics. The company provides custom, rugged electronics, PCB design and product development for various industries, including Aerospace & Defence, Space, IT and High-Performance Computing. Services include: system design, schematic, PCB layout, IBIS simulation, embedded SW and low-volume, high-end prototyping. The company has references across Europe (Belgium, Luxembourg, Switzerland, Germany, Norway, United Kingdom, Ireland, Italy) and overseas (Israel, USA). It designs 150 PCBs annually, out of which 50+ are HDI design.

JUMBO HX-IDS-HDC-SYS

VEX
HUNGARIAN DEFENCE
EXPORT AGENCY LTD.

CAMERA PLATFORM AND COOLED MULTISPECTRAL RECONNAISSANCE SYSTEM

DETAILS

➤ Built-in laser rangefinder
➤ Built-in cooled thermal camera
➤ Built-in visible colour camera
➤ Precision moving platform
➤ Remote control via LAN
➤ Advanced image processing functions
➤ GPS (optional)
➤ Digital magnetic compass (optional)
➤ Built-in gyro-stabilized platform (optional)

KEY FEATURES

Movement unit	Pan movement:	n×360°
	Tilt movement:	−45°–+10°
Laser rangefinder	Wavelength	1520 nm–1580 nm
	Measurement range	50 m–20,000 m
Thermal imager	Resolution	1280×720 pixel
	Detection range	>29,000 m (2.3 m × 2.3 m)
Day/light camera	Resolution	1920×1080 pixel
	Detection range	>29,000 m (2.3 m × 2.3 m)

JUMBO HX-IDS-MMRS-SYS

VEX
HUNGARIAN DEFENCE
EXPORT AGENCY LTD.

UNCOOLED MULTISPECTRAL RECONNAISSANCE SYSTEM

KEY FEATURES

Movement unit	Pan movement:	n×360°
	Tilt movement:	−90°–+90°
	Field of view (hor)	4.1°–25.3° (Continuous optical zoom)
	Zoom:	6× optical zoom and 4× digital zoom
Laser rangefinder	Wavelength	1520 nm–1580 nm
	Measurement range	50 m–12,000 m
Thermal imager	Resolution	640×480 pixel
	Detection range	>10,000 m (2.3 m x 2.3 m)
Day/light camera	Resolution	1920×1080 pixel
	Detection range	>29,000 m (2.3 m × 2.3 m)

DETAILS

➤ Built-in uncooled thermal camera
➤ Built-in gyro-stabilized platform
➤ Built-in visible colour camera
➤ Remote control via LAN
➤ Advanced image processing functions
➤ GPS
➤ Digital magnetic compass
➤ LED reflector
➤ Built-in laser rangefinder (optional)

PROTECTIVE SUITS AND FILTER CANISTERS

VEX
HUNGARIAN DEFENCE
EXPORT AGENCY LTD.

FOR CBRN AND INDUSTRIAL PROTECTION

DETAILS

The company offers high-quality individual protective clothing for chemical protection and firefighting purposes, and filter canisters for respiratory protection. The composite chemical protective clothing system consists of a highly activated carbon filter layer and a treated outer fabric. The firefighting protective suits meet the level 2 requirements of the EN 469:2020 standard. The R18 NBC filter canisters are for protection against chemical warfare agents. The ABEK2P3 RD class 2 combined filters are for industrial respiratory protection against hazardous contaminants, toxic gases, vapours and particles.

PROTECTIVE SUITS AND FILTER CANISTERS

PYROLATER

VEX
HUNGARIAN DEFENCE
EXPORT AGENCY LTD.

THERMAL CAMERA

PYROLATER

DETAILS

Thanks to its sensitivity, the Pyrolater thermal camera is not only suitable for detecting fires, but can also be a useful tool for fire safety prevention and maintenance. Heated electrical wires running in the walls, overheated switches, batteries and other parts and equipment can be observed, and possibly heated elements can also be detected among the stored raw materials and finished goods.

➤ ATEX-certified, explosion-proof, shatter-proof and waterproof
➤ Fire source search function
➤ Person search function

KEY FEATURES

Sensor type	Uncooled VOx FPA	
Resolution	640×512 pixel	
Spectral range	7 µm–14 µm	
NetD	<40 mK	
Optics	Ge + AR; f = 7.5 mm; F1,2	
Display type	3.5" colour LCD	
Resolution	640×480 pixel	
Temperature measurement	Range I.	−40 °C–+150 °C
	Range II.	−40 °C–+800 °C
ATEX	Zone 2, Ex II3G, Ex ic IIC T4 Gc	

RADIATION AND GAS DETECTORS

VEX
HUNGARIAN DEFENCE
EXPORT AGENCY LTD.

FOR MONITORING AND ON-BOARD CBRN RECONNAISSANCE SYSTEMS

RADIATION AND GAS DETECTORS

KEY FEATURES

Radiation measurement with Geiger-Müller counters and spectrometric scintillation detectors.

Wide range of gas sensors (electrochemical, pellistor, PID, NDIR).

Ideal tools for radiation protection applications and environment monitoring.

Suitable instruments for UAV, UGV applications.

Various configurations for different vehicles with radiation level meters and spectrometric probes.

DETAILS

The company offers highly sensitive instruments and systems designed for measuring gamma radiation level in a wide range. These devices are suitable for the aerial and terrestrial reconnaissance of widely contaminated areas after nuclear incidents, and for the localization and identification of gamma and neutron orphan sources.

The GTI gas detectors are intelligent transmitters with quick and reliable operation, low-noise electronics, and excellent zero and span stability.

TEAR GAS SPRAY MANUFACTURING

VEX
HUNGARIAN DEFENCE
EXPORT AGENCY LTD.

TEAR GAS SPRAY MANUFACTURING

KEY FEATURES

CS tear gas spray 750 ml and 40 ml

Non-flammable (according to the 2008/47/EK Directive)

Effective range   6–8 meters (750 ml); 3 meters (40 ml)

Operating   –10 °C–+50 °C
temperature range

Safety actuator system.

Suitable for right- and left-hand use.

Can also be operated in gloves.

Safely applicable together with Taser X26P ECD.

Provides a cone-pattern dispersion, making it easier to hit the target person.

DETAILS

➤ 50 years of experience in tear gas spray development and manufacturing

➤ Flexible Private Label conditions

➤ Unique product development on demand

➤ EDW safe composition

➤ CS and pepper type tear gases

TRAFFICAPTURE
TC-108

VEX
HUNGARIAN DEFENCE
EXPORT AGENCY LTD.

POLICE TRAFFIC ENFORCEMENT SYSTEM

TRAFFICAPTURE TC-108

KEY FEATURES

Imaging	Frame rate	50 frames/s
	Sensor type	1920×1080 pixel; global shutter CMOS
	Image format	JPEG
Optics	Optical zoom	36×, motorized
	Field of view (horizontal)	2.0°–52.0°
Illumination	LED type	IR 850nm (1.1ms)
Ranges	Distance range	min. 15 m; max. 1700 m
	License plate is readable	>220 m (daytime); >150 m (nighttime)
Laser	Wavelength	905 nm
	Pulse firing rate	max. 3200 Hz
Display	Type	industrial tablet
	Size	10.1" (diagonal)

DETAILS

➥ Day and night modes
➥ Speed measurement in a stationary position and from a moving car
➥ User-friendly portable display (tablet)
➥ High-resolution sharp image
➥ Speed measuring over 1000 m

TRAVISMOS

VEX
HUNGARIAN DEFENCE
EXPORT AGENCY LTD.

TRAINING WITH VITAL SIGNS MONITORING IN MODULAR SETUP

DETAILS

TRAVISMOS is a next-generation, mobile military training platform that delivers immersive, data-driven simulation combined with real-time monitoring of trainee well-being. Designed for rapid deployment and modular scalability, TRAVISMOS supports multi-role, multi-weapon training for individuals and squads in a wide range of operational scenarios.

The system integrates advanced vital signs monitoring, using contactless radar sensors and smart textiles to track physiological and cognitive indicators—such as heart rate, breathing, and stress levels—without disrupting movement or immersion. This enables adaptive training, real-time feedback, and long-term performance analysis.

At its core, TRAVISMOS features a high-fidelity simulation engine, realistic weapon replicas, and authentic sound systems to replicate battlefield conditions and enhance situational awareness. All components are housed in foldable, container-based units that are easy to transport and set up with minimal infrastructure.

TRAVISMOS provides a comprehensive, future-ready training ecosystem that enhances readiness, supports health and safety, and enables agile, mission-focused training anywhere it is needed.

As a European Defence Fund (EDF) project, it was live tested by both the Hungarian and Slovenian Defence Forces.
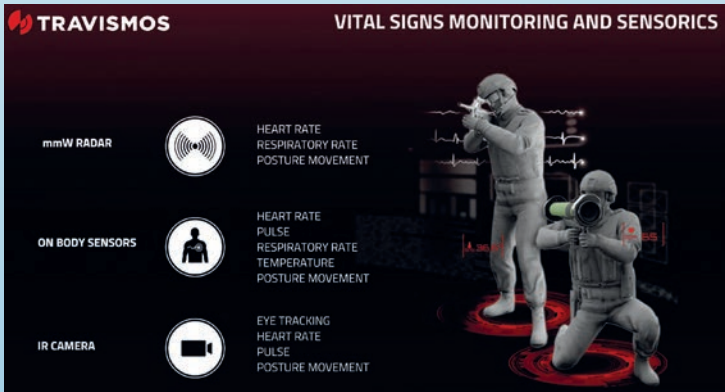
KEY FEATURES

Immersive Simulation Training	Delivers high-fidelity, scenario-based military training, using realistic weapon replicas, battlefield acoustics, and advanced performance analytics.
Real-Time Vital Signs Monitoring	Utilizes contactless and wearable sensors to track physiological and cognitive states, enabling adaptive training and health-aware performance evaluation.
Modular & Mobile Deployment	Housed in foldable, self-contained containers for rapid setup in any environment, with minimal infrastructure requirements.
Sustainable, Off-Grid Operation	Integrated renewable energy systems ensure full training capability, with reduced environmental impact and no reliance on external power sources.

MODULAR SHOOTING RANGE SYSTEMS

VEX
HUNGARIAN DEFENCE
EXPORT AGENCY LTD.

MODULAR SHOOTING RANGE SYSTEMS – MODULAR, CUSTOMIZABLE, AND MISSION-READY

DETAILS

Our Modular Shooting Range Systems are high-performance, relocatable infrastructures designed for live-fire training, tactical simulation, and operational support. Built from internally reinforced steel modules, each unit meets strict ballistic and environmental safety standards.

Custom Dimensions & Layouts
Modules are 2 meters deep, with widths of 6, 8, 10, or 12 meters, and a standard 3-meter internal height. Ranges can be configured in 2-meter increments up to 300 meters and beyond. Designed for rapid deployment, reconfiguration, or permanent installation.

Certified for High-Energy Weapons
Live-fire rated up to 20,000 Joules, compatible with NATO-standard and high-caliber weapons. Supports various target systems, including static, steel, pop-up, and programmable moving targets. Internal ballistic protection minimizes ricochets, ensuring user safety during intense drills.

Advanced Air Safety
A multi-stage ventilation and filtration system ensures up to 25,000 m³/h of airflow, filtering lead particles and combustion gases. This maintains air quality within occupational safety standards, even during sustained use.

Low-Maintenance Design
Corrosion-resistant surfaces, easy-access components, and modular construction allow fast upkeep with minimal tools and personnel.

Expandable Training Environments
Modules can be tailored for CQB zones, multi-level urban combat structures, or specialized spaces such as:
➤ Briefing rooms and classrooms;
➤ Armories and weapon storage;
➤ Simulation or dry-fire zones;
➤ Command, control, or security rooms;
➤ Locker rooms or rest areas.

Fully Tailored Solutions
Delivered ready for assembly and customized to your mission profile. Our team supports planning, logistics, and commissioning to ensure seamless integration. Whether for military, law enforcement, or defense industry use, this modular system delivers unmatched flexibility and safety—anywhere, anytime.
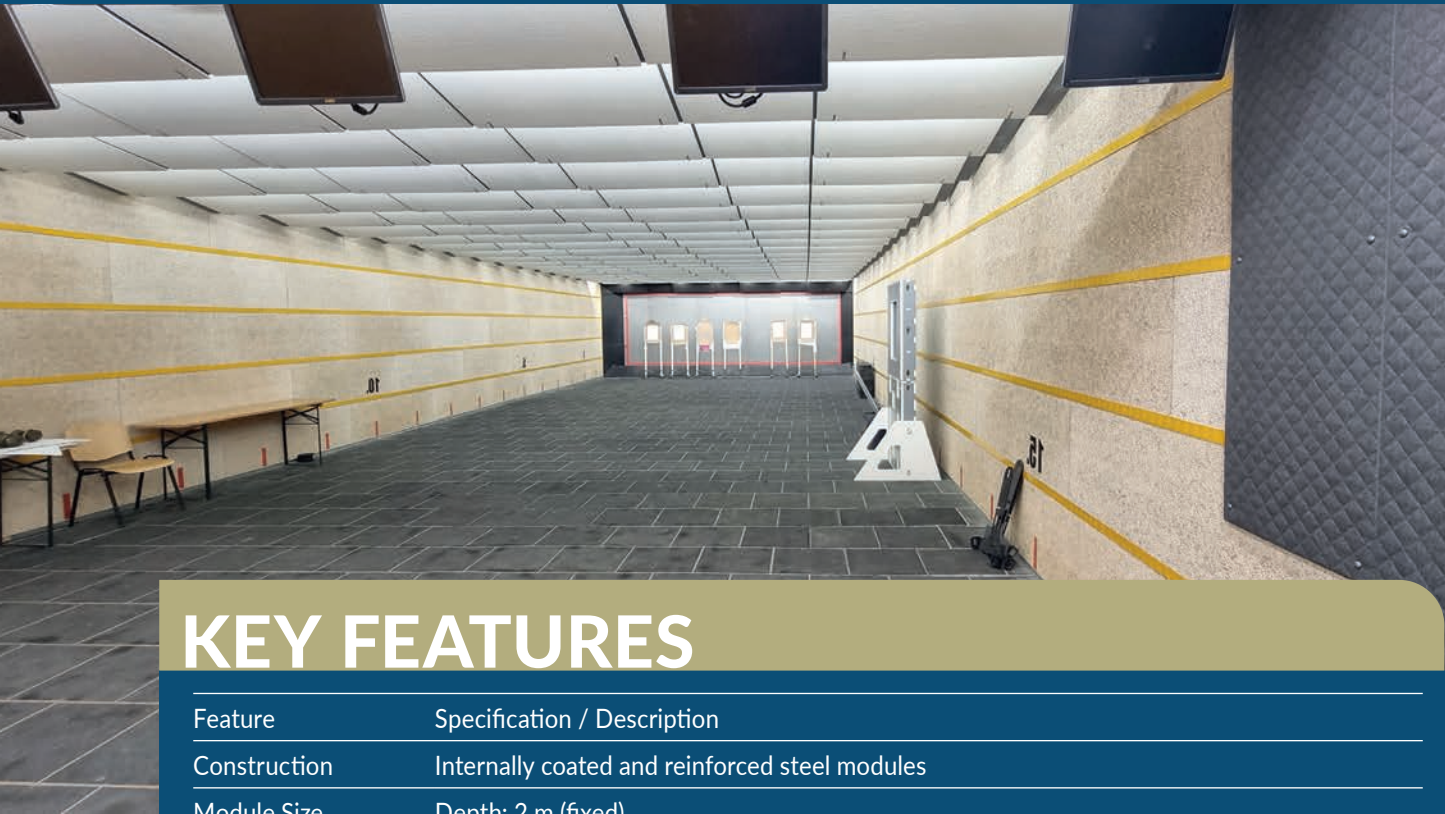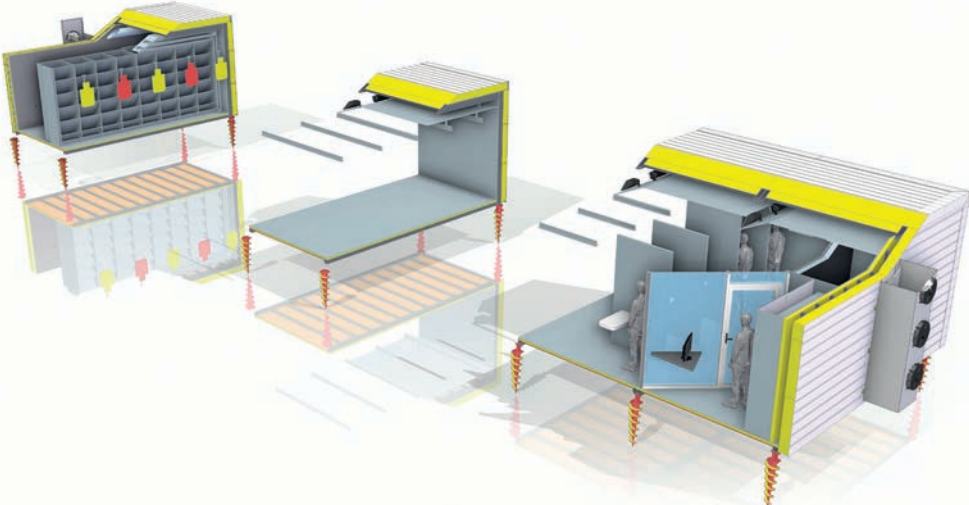
KEY FEATURES

Feature	Specification / Description
Construction	Internally coated and reinforced steel modules
Module Size	Depth: 2 m (fixed)
	Widths: 6 / 8 / 10 / 12 m
	Height: 3 m (internal)
Range Length	Configurable in 2 m increments, up to 300+ meters
Deployment	Relocatable, transportable, quick on-site assembly and reconfiguration
Live-Fire Certification	Up to 20,000 Joules muzzle energy (suitable for NATO-standard and high-caliber weapons)
Compatible Targets	Static paper, steel, pop-up, programmable moving targets
Ballistic Safety	Internal ballistic protection, angled surfaces to reduce ricochet and overpenetration risks
Ventilation System	Multi-stage system
	Up to 25,000 m³/h airflow
	Filters lead particles and toxic gases
Air Quality	Complies with occupational safety standards; minimal toxication during prolonged live-fire
Maintenance	Corrosion-resistant surfaces, low maintenance, quick access to mechanical elements
CQB/Urban Training Options	Multi-level configuration possible; staircases, ladders, partitions, doors, balconies, etc.
Simulation Enhancements	Dynamic lighting, sound effects, smoke machines, video monitoring, AAR tools
Custom Training Modules	- Briefing & classroom zones
	- Simulation/dry-fire areas
	- Armories & rearming rooms
	- C2/security rooms
	- Lockers, equipment rooms, rest areas
Delivery & Support	Full turnkey service: concept design, ballistic consulting, logistics, assembly, commissioning
Applications	Military, law enforcement, private security, defense industry
Environment Adaptability	Suitable for any location or climate

CONTAINER SHOOTING RANGE

MOBILE CONTAINER SHOOTING RANGE – MODULAR, CUSTOMIZABLE, AND MISSION-READY

DETAILS

Mobile Shooting Range – 45' HC Container
Our mobile shooting range, built into a 45-foot High Cube container, is a fully equipped, self-contained live-fire solution for tactical training, weapons testing, and demonstrations. Designed for military, law enforcement, and defense industry use, it delivers a high-performance shooting environment without the need for permanent infrastructure.

Compact. Capable. Powerful.
The base unit features a 10-meter indoor shooting lane, certified for calibers up to 20,000 Joules. Compatible with everything from 9×19mm handguns to .338 Lapua Magnum and .50 BMG sniper systems, it supports a wide range of operational needs.

Safe and Silent Operation
A high-efficiency ventilation system (3,000 m³/h intake, 3,500 m³/h exhaust) ensures clear air and visibility. Exterior noise levels stay below 75 dB, allowing operation even in sensitive or urban environments. Ballistic containment prevents overpenetration and ricochets for maximum safety.

Modular and Customizable
Multiple containers can be linked to extend the shooting distance or add mission-specific functions — command rooms, briefing areas, armories, or control centers. Interior layouts, insulation, lighting, and even branding are fully customizable. Optional features include biometric storage, reactive targets, HD monitoring, and VR/AR simulation modules.

Applications
Ideal for military training, LE qualification, product demos, and remote testing. Whether for instruction, operational readiness, or secure trials, this mobile range brings unmatched versatility directly to your site.

KEY FEATURES

Container Shooting Range	
Container Type	45-foot High Cube (HC) shipping container
Shooting Distance	10 meters (base unit); expandable to 20–200 meters with additional modules
Caliber Compatibility	Up to 20,000 Joules muzzle energy
Tested Ammunition	9×19mm, 9×18mm, 5.56×45 NATO, 7.62×39, .308 Win, 7.62×51 NATO, .300 Win Mag, .338 Lapua Mag, .50 BMG
Ventilation System	3,000 m³/h air intake, 3,500 m³/h exhaust
Noise Level (Exterior)	≤ 75 dB during live-fire operation
Ballistic Safety	Ballistic containment system prevents overpenetration and ricochets
Deployment Time	Fully assembled; live-fire ready within hours (connect power and ventilation)
Modularity	Containers can be joined or expanded for longer range and additional functions
Custom Options	Interior layouts, lighting, insulation, branding, and more
Optional Add-ons	- Biometric weapon storage
	- Electronic target systems
	- Reactive/pop-up targets
	- HD monitoring & recording
	- VR/AR simulation modules
Applications	- Military and law enforcement training
	- Product demonstrations
	- Ammunition/weapons testing
	- Private security programs
	- Remote instruction and prep
	- Sport and civilian shooting

ADVANCED BULLET TRAPS AND STEEL TARGETS

BUILT FOR MILITARY, LAW ENFORCEMENT & PROFESSIONAL TRAINING

DETAILS

We offer high-performance bullet trap systems and steel targets made exclusively from HARDOX 600, a premium-grade steel known for superior durability and impact resistance. Designed for high-volume use and calibers up to 20,000 Joules, our products are engineered for demanding live-fire environments.

Lamellated Bullet Trap

Constructed from non-welded HARDOX 600, this modular trap safely absorbs and redirects bullets. It features a fireproof, self-healing anti-ricochet surface, rated for up to 80,000 shots/m². No sand or rubber needed. Includes a sealed lead collection system for safe operation and minimal maintenance.

Funnel Bullet Trap – "Big Vortex"

Optimized for continuous fire, this spiral deceleration system captures rounds without ricochet or dust. Fully HARDOX 600 construction ensures long service life. Integrated closed lead capture keeps operation clean and safe, with minimal upkeep.
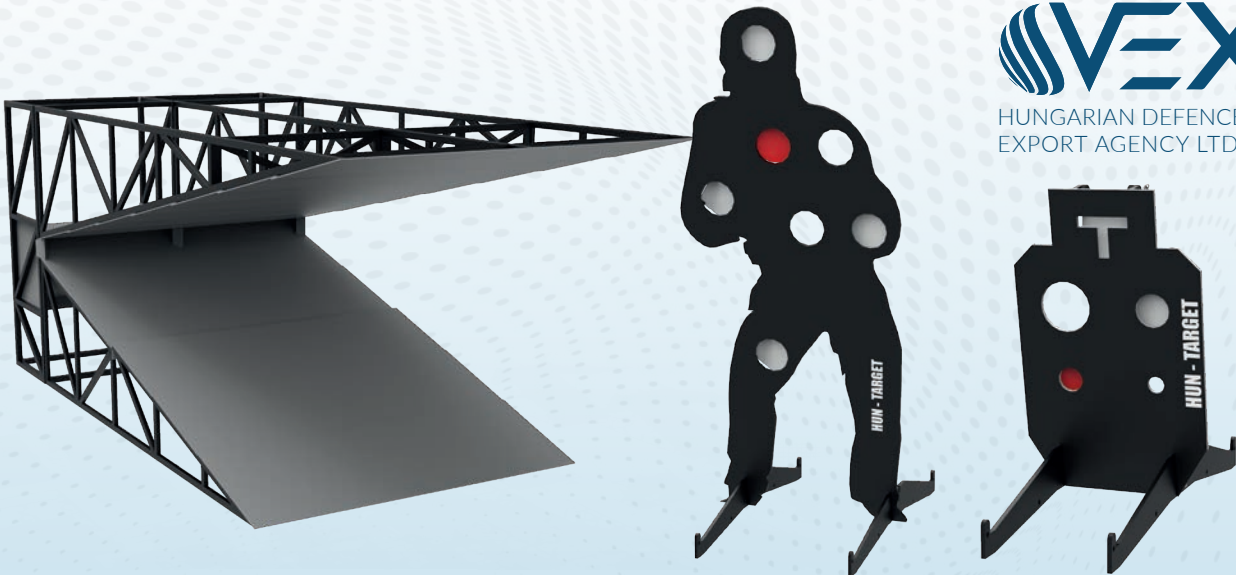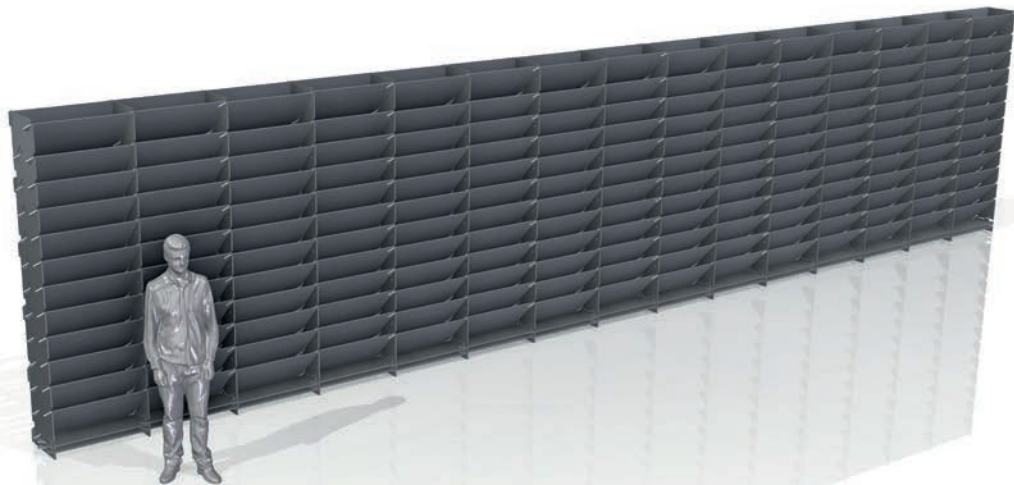
HUN-Target Steel Target Systems

Our steel targets are built to withstand repeated hits from handguns, rifles, and shotguns—up to 15,000 J. All designs prioritize safety, deflection, and quick deployment. Target types include:
➡ IPSC/IDPA silhouettes and hostage targets;
➡ Reactive swinging, falling plates;
➡ Dueling trees, plate racks, CQB setups;
➡ Pop-up and custom shapes on request.
All targets are modular, field-ready, and resistant to warping or deformation under intense training conditions.
Whether for fixed ranges, mobile deployments, or tactical facilities, our bullet traps and target systems offer unmatched performance, safety, and longevity for modern combat training environments.

KEY FEATURES

Modular shooting range systems	
Material	All components made from HARDOX 600 wear-resistant steel
Caliber Capacity	Up to 20,000 Joules (for bullet traps)
	Up to 15,000 Joules (for steel targets)
Lamellated Bullet Trap	- Non-welded HARDOX structure
	- Self-healing, fireproof anti-ricochet surface
	- Rated for up to 80,000 shots/m²
	- No sand or rubber filler required
	- Modular design for fast maintenance
	- Includes sealed lead collection box
Funnel Bullet Trap	- Spiral "Big Vortex" chamber design
	- Continuous high-volume fire capability
	- Dust- and ricochet-free operation
	- Integrated closed lead capture system
	- Fully HARDOX 600 construction
	- Low maintenance
HUN-Target Steel Targets	- Made from HARDOX 600
	- Modular and deformation-resistant
	- Designed for pistols, rifles, shotguns (up to 15,000 J)
	- Target types include: • IPSC / IDPA silhouettes
	• Hostage targets
	• Swinging, falling plates
	• Plate racks, dueling trees
	• CQB targets, pop-up targets, custom designs
	- Optimized for safe deflection and fast deployment

DAD BULLET TRAP

PORTABLE WEAPON CLEARANCE DEVICE

VEX

DAD BULLET TRAP

DETAILS

The DAD bullet trap is a portable device that requires minimal space and is designed to safely check whether handguns or rifles are loaded, in full compliance with weapon handling regulations. The DAD unit operates like a swirling drum, effectively absorbing harmful, unwanted, and environmentally hazardous elements produced by firearm discharges. It protects both the user and their surroundings from the harmful effects of a shot, with the exception of minimal gunpowder residue. This bullet trap func-

tions as a mobile safety device suitable for use by specialized units and personnel, while adhering to all weapon usage protocols. It can be utilized in various settings such as the armed forces, law enforcement agencies, security services, shooting ranges (including sub-sections), financial institutions, official laboratories, and more — to neutralize the risks associated with firearm testing and clearance. The DAD bullet trap is capable of safely handling firearms with muzzle energy up to 5,000 Joules.

KEY FEATURES

DAD Bullet Trap	
Product Type	Portable bullet trap and weapon clearance device
Purpose	Safe checking of loaded firearms in compliance with weapon handling protocols
Design	Spiral (swirling drum) energy absorption chamber
Maximum Caliber Rating	Up to 5,000 Joules muzzle energy
Operation	Contains discharge energy, reduces ricochet and noise, limits environmental contamination
Residual Output	Minimal gunpowder residue only
Mobility	Compact, portable design – requires minimal space
Tested Calibers	- 7.65×17 mm Browning (R78)
	- 9×18 mm (PA-63)
	- 9×19 mm (P9RC)
	- 7.62×39 mm (AMD-65 / AMP-69)
	7.62×39 mm steel core (AMD-65 / AMP-69)
	- 5.56×45 mm NATO
	- .223 Remington
	- 7.62×51 mm NATO
Maintenance	Low-maintenance, enclosed structure
Typical Applications	- Military and law enforcement units
	- Security companies
	- Shooting ranges
	- Gun storage rooms
	- Laboratories
	- Financial or government institutions
Versions	Normal: up to 5.000 J
	Testing: up to 15.000 J

KENNO

CN20 BALPRO PROTECTOR
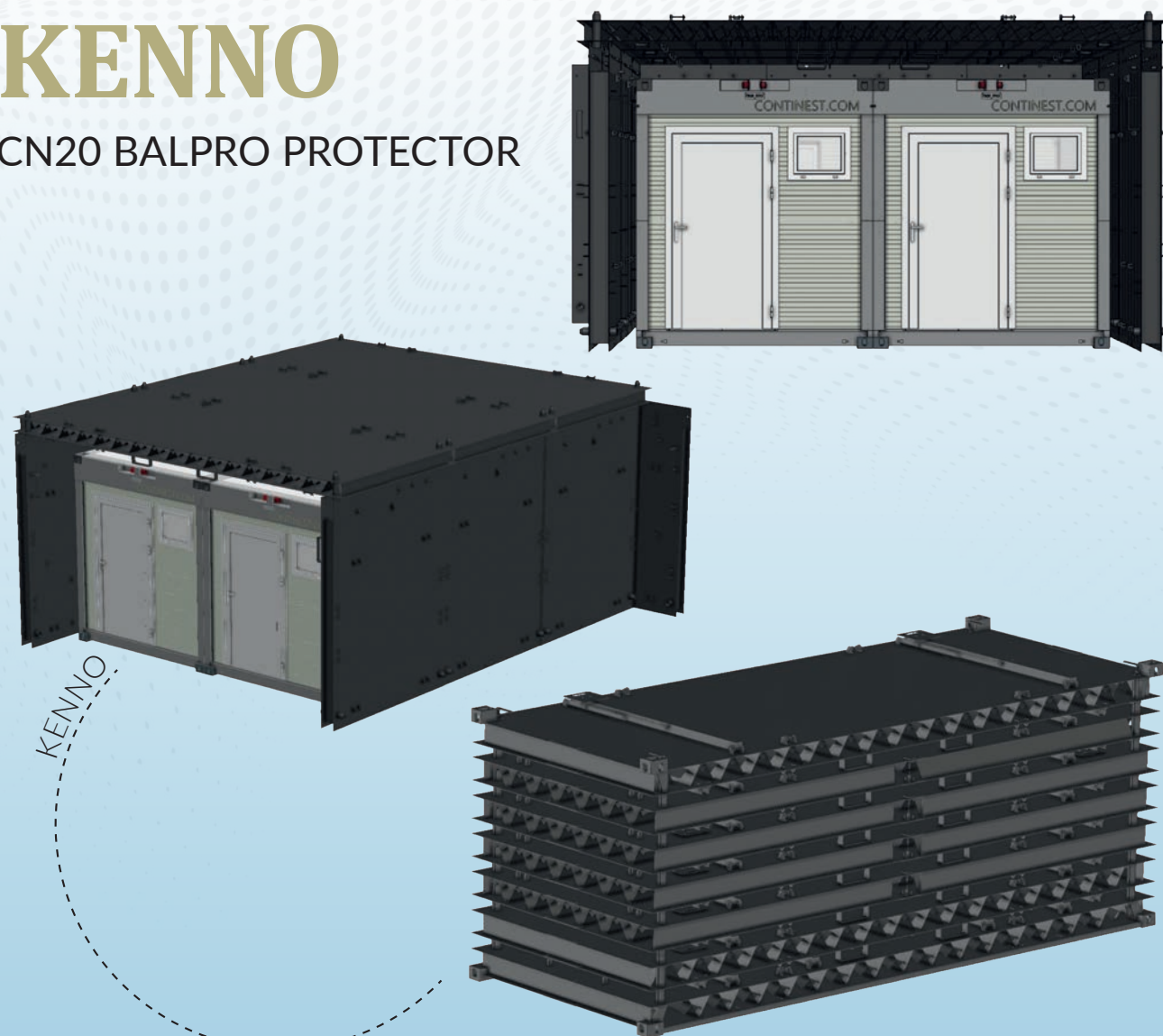
KENNO

DETAILS

The Kenno – CN20 project is an innovative, modular defense solution that combines rapid deployability, high mobility, and robust ballistic protection. This combined system integrates the foldable CN20 container platform with the armored BALPRO Protector 3M modules developed by Kenno Tech, delivering a mobile protection unit designed to perform reliably, even in the most demanding operational environments. Compliant with the STANAG 2280 ballistic protection standard, the system provides A3/C4 level protection when empty and up to A4/C5 level when filled with sand or gravel—offering effective defense against small/medium caliber projectiles, shoulder-launched weapons, rifle grenades, battlefield rockets (122 mm), artillery (155 mm), mortars, and small/personnel-borne IEDs. While the CN20 container itself can be deployed

within 3–5 minutes, the protective armor modules can be installed around the unit in just 2–4 hours.
An optional blast-resistant shield module can be added and positioned on elevated ground next to the container to provide enhanced protection for critical operations, whether during field training or active deployment.

Ideal applications include:

➤ IForward command and control posts;
➤ ITemporary guard stations and base units;
➤ IMobile protected operations centers;
➤ IBlast- and bullet-resistant logistics hubs.

The goal of the Kenno collaboration is to deliver an adaptive, high-security protective infrastructure that enables rapid response in military missions— bringing flexibility and resilience wherever it is needed most.
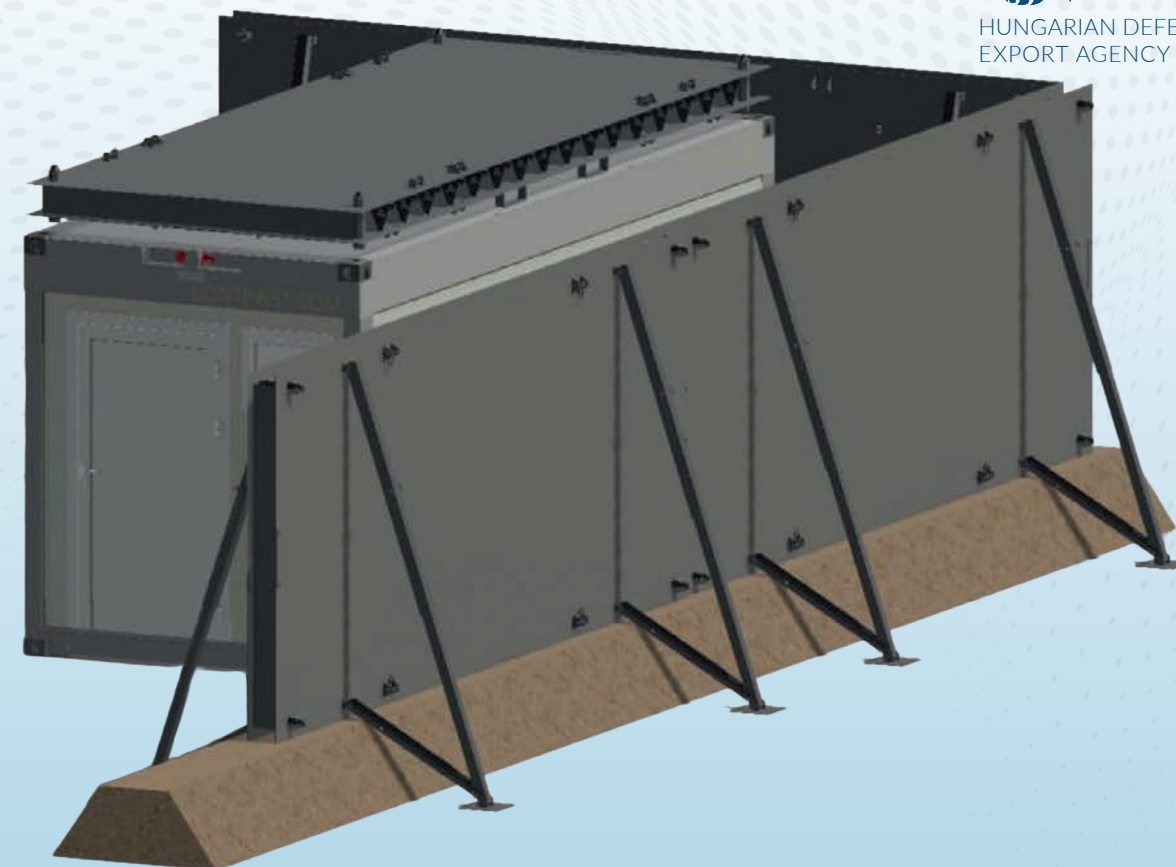
KEY FEATURES

CN20 + Balpro Protector 3M	
Used elements Balpro Protector 3M + Basic	
3M element dimensions	3.14m x 2.43m x 0.2m
Set includes 11 elements	7 x 3M basic elements, 1 x 3M element with door, 1 x Basic element, 1 x top element and 1 x bottom element.
Set includes:	7 x 3M element
	1 x 3M door element
	1 x Basic element
	1 x top element
	1 x bottom element
	4 x lock pin
	1 x tool and attachement set
	Each element includes support legs.
Additional:	Roll-off container rails
	Hooklift device
	Weather cover

CN MSR

(RE)DEPLOYABLE MILITARY SHOOTING RANGE

DETAILS

This modular shooting range is an ideal solution for military, law enforcement, and security forces, needing to conduct flexible, high-performance basic training in diverse environments.

It supports a range of small arms (0.22 mm, 9 mm, 5.56 mm, and 7.62 NATO calibers) shooting exercises, with ballistic protection and noise insulation, ensuring safety and minimizing disruption. The range's enclosed design, which reduces noise to 50–70 decibels, makes it suitable for use in densely populated urban areas or remote locations near environmentally protected zones, where traditional open-air ranges would be unable to operate.

The range's modular design features four shooting positions and a 15 m shooting distance, which can be reconfigured to accommodate up to five shooting positions and extended distances.

It can be fully operational within 12 hours and is easily transportable using flatbed trucks or container trailers, making it ideal for rapid deployment in restricted or sensitive areas.

KENNO

KEY FEATURES

Rapid	Fully operational within 12 hours and transportable using only three flatbed semi-trailer trucks or five 20-foot side-loading container trailers.
Safe	Equipped with SSAB Armox 600T armour, a ricochet-proof ballistic protection system, and an efficient bullet trap to ensure safety for both operators and surrounding areas.
Modular	The range's modular design allows for flexible configuration, including reconfigurable shooting positions and the ability to increase shooting distance as desired.

CATEGORY	SPECIFICATION
Transport	Via 3 flatbed semi-trailers or 5 side-loading 20' containers
Deployment	Fully operational within 12 hours
Modularity	Modular and expandable design
Standard Configuration	6 armoured, noise-insulated modules; 15 m static shooting range
Shooting Capabilities	4-person static or 1-person dynamic; max. 5 configurable positions
Armor	SSAB Armox 600T, AAM ARP2006 Level 7 certified
Ammunition Compatibility	0.22 mm, 9 mm, 5.56 mm, 7.62 NATO (no AP or tracer rounds)
Safety	Fully ricochet-proof; prevents any external projectile escape
Noise Level	50–70 dB at 10 meters; lower than average street noise
HVAC System	Ventilation, heating/cooling in a dedicated 20' container
Control Booth	Controls 4-person shooting, AC, lighting; secure weapon storage
Bullet Trap	10 mm Armox 600T; safe, heavy, metal-free disposal trays
Certification	Developed with SSAB, Linde, BME; tested and certified by the HDF
NATO Stock Number CN Mobile Shooting Range: 5410-51-000-9698	

FOLDABLE CONTAINER SOLUTION

CN20 STANDARD

DETAILS

The company offers sustainably foldable container solutions for temporary infrastructure use in 30+ countries worldwide, targeting the event and defense sectors. They won Canadian DND IDEaS top prize in 2023 and gained "NATO Approved Supplier" certification in 2024.

The CN20 standard combines all the benefits of a 20' ISO fixed frame container with the advantages of foldability, enabling cost-effective transportation and deployment, reliable infrastructure for forces in austere conditions, and NATO interoperability.

➤ IRisk mitigation.
➤ IEffective (re)deployment with diverse applications
➤ IMOTS and COTS compatibility, standardized technological platforms.

KEY FEATURES

Dimensions	Length	Width	Height
Closed	6,058 mm	2,440 mm	555 mm
Open	6,058 mm	2,440 mm	2,777 mm
Interior	5,820 mm	2,314 mm	2,507 mm
Weight	750 kg	1 truck = 10 units	

FOLDABLE CONTAINER SOLUTION

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CN10/CN10 BED-STAY

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DETAILS

The CN10 blends the advantages of a 10' ISO fixed frame container with foldability, enabling safe stacking for storage and transport. This reduces costs and emissions by up to 80%. The CN10 Bed-Stay, based on the standard foldable CN10 unit, features 2 bed frame systems with mattresses built into the floor, swiftly providing comfortable sleeping arrangements for two people within minutes.

▸ Quick and safe set-up and teardown in only 5–10 minutes on level surface, using a single machine (forklift, telehandler, crane, etc.) and crew.
▸ Multifunctional uses: accommodation, office, first aid, storage, etc.
▸ Comfortable insulated units can be cooled or heated.
▸ Mobile, scalable, modular.

KEY FEATURES

CN10 dimensions	Length	Width	Height
Closed	3,000 mm	2440 mm	495 mm
Open	3,000 mm	2,440 mm	2,624 mm
Interior	2,428 mm	2,260 mm	2420 mm
Weight	900 kg	1 truck = 20 units	
CN10 Bed-Stay	Bed size: 190 x 75 cm	Bed height: ~53.5 cm	A 199L x 86W x 46H cm storage space is available under the beds.
Weight	1,070 kg		

SERVICES

CONTENTS

PRECISION CNC MACHINING, 3D METAL PRINTING, R&D

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DETAILS

The company's main profile includes custom and small-series CNC machining, as well as metal raw material trading. Its facilities are in Nagyatád and Pécs, encompassing nearly ten thousand square meters of manufacturing space, with 250 employees. Its annual revenue is 17 million Euros, 70 percent of which comes from direct exports. Its markets are incredibly diverse: it collaborates with over 10,000 partners, fulfils nearly 10,000 orders annually, and its yearly turnover exceeds HUF 6.6 billion. Its primary markets include Germany, Austria, Switzerland, Slovenia, the Czech Republic, Great Britain, the Netherlands, and Hungary.
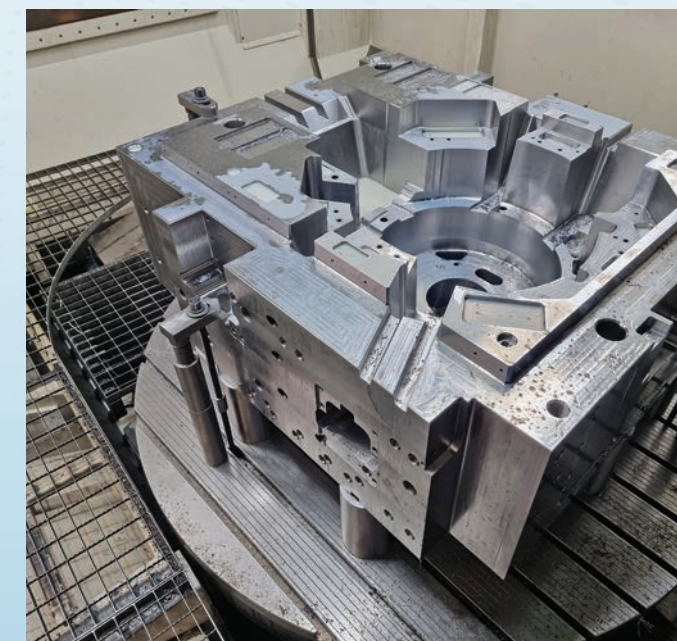
KEY FEATURES

PRECISION CNC MACHINING:
As specialist in complex metal manufacturing, the company provides comprehensive services ranging from CNC milling and deep hole drilling to turning, grinding, heat treatment, and surface treatment. It can produce parts from XS to XXL sizes, weighing up to 25 tons, with dimensions up to 8,000×3,500×1,500 mm.

3D METAL PRINTING: In the field of additive manufacturing, the company employs two modern technologies:
▸▸**WAAM** (Wire Arc Additive Manufacturing): Utilizes a 5-axis CNC-controlled, large-scale deposition welding machine for precision welding tasks.
▸▸**LMD** (Laser Metal Deposition): Enables the fast and cost-effective production of stainless steel, titanium, Inconel, and other materials. LMD-W-based 3D printing plays a crucial role in R&D activities, too.

R&D AND ENGINEERING EXCELLENCE:
The company is committed to research and development. In its active engineering and R&D work, it applies 3D printing technologies. The company undertakes the development and production of metal parts based on 3D data or drawings and offers reverse engineering solutions and 3D scanning.

KEY FIREARM BARREL TECHNOLOGY: own development, which aims to replace hard chrome plating and nitriding, ensuring higher quality at lower costs. CVD-coated firearm barrels are produced with a 3500 HV hard surface, wear- and corrosion-resistant layer, and are available with polygonal rifling (e.g. Glock).

Other defence services include the refurbishment of military vehicles and the development and production of various defence components.

ADCHECK

PROVIDES DEEP INSIGHTS INTO THE PERSONAL WORLD OF THE TARGETED INDIVIDUAL

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KEY FEATURES

AdCheck searches for various types of Internet ads belonging to a specific person or their close environment and family. This helps creating a detailed picture of the target.

Looking at the ads placed by the target or by closely related family and friends, we will uncover a lot of information without raising suspicion. AdCheck helps us learn about assets, interests (e.g.: hunting, sailing, sport cars), or even favourite locations (e.g.: vacation house) and storage spaces (e.g.: garage, rented depository).

The AdCheck service will build a database using the content of either thematic or general –customer-selected – advertising pages. Regular updates – with newly published ads – are added at specified intervals. Updates can be added every day or at an interval of a certain number of hours according to the customer's request. Subscribing to the service for several months or years will build a large ads database enabling retrospective searches. In case a person becomes a suspect now, retrospective searches in this long-standing database could provide vital information.

For each ad, we will store the text of the ad, the email address, phone number and the images belonging to the ad. Therefore, through the AdCheck interface, it is possible to search the full database for a specific phone number or email address. The search result will contain all the data of the relevant ads, making a complex investigation quick and easy, disclosing important information about the target.

DETAILS

Everyone has a digital footprint, based on their activity on the Internet. AdCheck collects information on a person by mapping part of this footprint focusing on ads placed by the individual.

However, AdCheck goes beyond regular OSINT as it can be used to build a trusted relationship with the target. Generally, the individuals placing the ads trust the neutrality of the individual contacting them. By referring to the ad, it is possible to meet the person, establish a personal linkage, and get to know their living conditions, social environment and dwelling place. In addition, there is a special opportunity when the target sells electronics (laptop, phone) or places ads for the purpose of buying rather than selling.

AdCheck provides active help to reveal the target person's close environment and bring in specific expertise during follow up visits.

GTB

MOBILE PHONE REMOTE ACCESS

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DETAILS

The GTB solution provides a remote access to your Android phone left at home.

Why should you leave your phone at home?
- ► You, as the mobile phone user, cannot be identified based on your radio footprint (Bluetooth, Wi-Fi, IMSI).
- ► Your phone cannot be stolen, lost or investigated.
- ► Your phone cannot be hacked physically, through the radio interface, or by malicious software.

Why should you always have your phone with you?
- ► You cannot access and read your incoming SMS and instant messages.
- ► You cannot make and receive calls.
- ► You do not have access to the files, images, contacts and apps on your phone.
- ► Using a new phone number is backward when making and receiving calls.
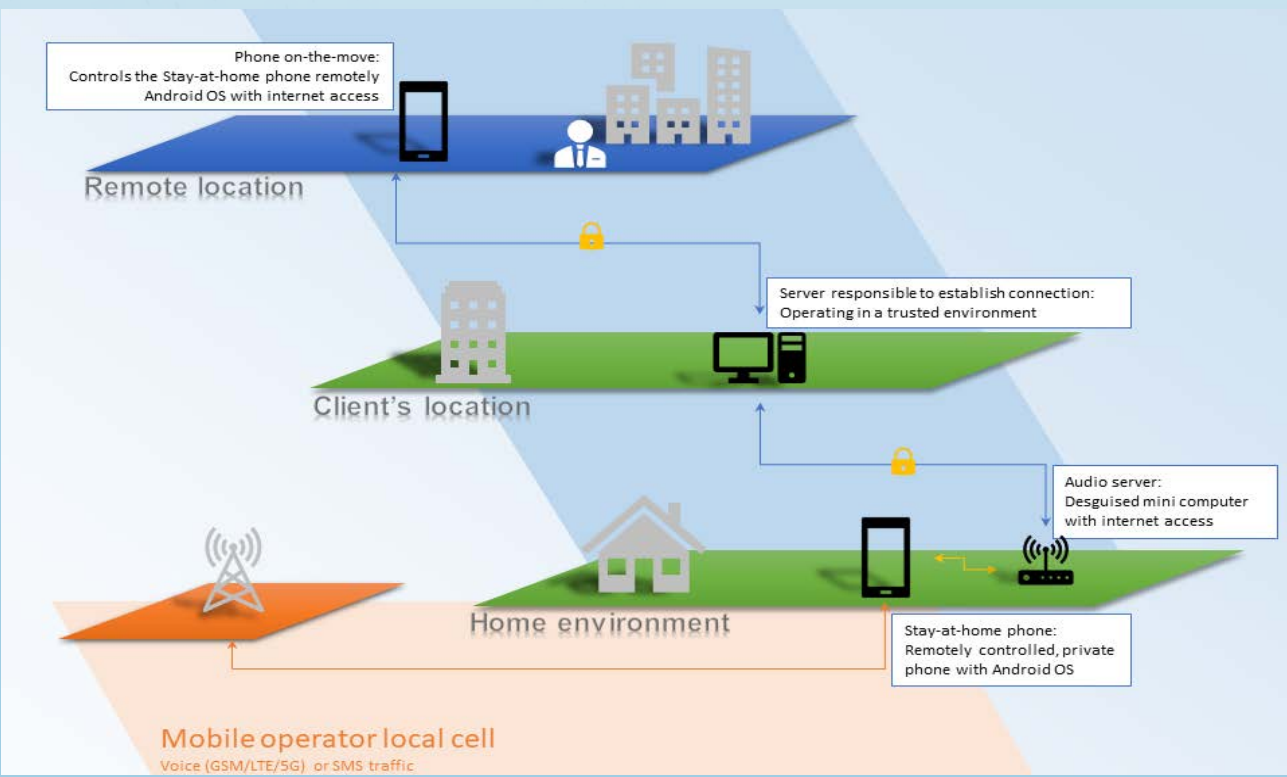
KEY FEATURES

Periodic and comprehensive protection of your phone:
- ►► when your personal presence somewhere is vital, but the environment around you is hostile.
- ►► when the data – files, images, etc. – stored on your phone may be at risk, but data or apps on your phone are needed.

End-to-end encryption.

On-premises server for communication setup.

MVA MOBILE COMMUNICATION PLATFORM

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SECURE COMMUNICATION AT THE HIGHEST LEVEL

KEY FEATURES

In our MVA software platform, we use today's most advanced and secure technologies in a closed ecosystem:
- Fully encrypted communication.
- No identification possible based on phone number and email address.
- Self-hosted server.
- Closed user group.
- Application built on an open-source solution.

DETAILS

Communication via mobile devices, i.e., mobile conversations and instant messages, have become widespread all around the world. A variety of free and paid communications solutions have emerged, even providing end-to-end encrypted secure communications. However, in terms of security, there is still room for improvement. With the introduction of the MVA mobile communication solution, we want to take communication security to the next level. MVA makes sure that no unauthorized person becomes aware of the content or even the fact of the communication. MVA enables the customer to control the communication app on the user's device, restrict access to the app to a closed user group and control the central on-prem server managing the entire communication.

ORAQLUM

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DETAILS

In today's digital world, individuals are increasingly identifiable through public data. Key contact details, like mobile phone numbers, serve as crucial identifiers in open-source intelligence.
Our solution, Oraqlum, was specifically developed to support law enforcement in their investigations, especially in the identification of real users on a call list.
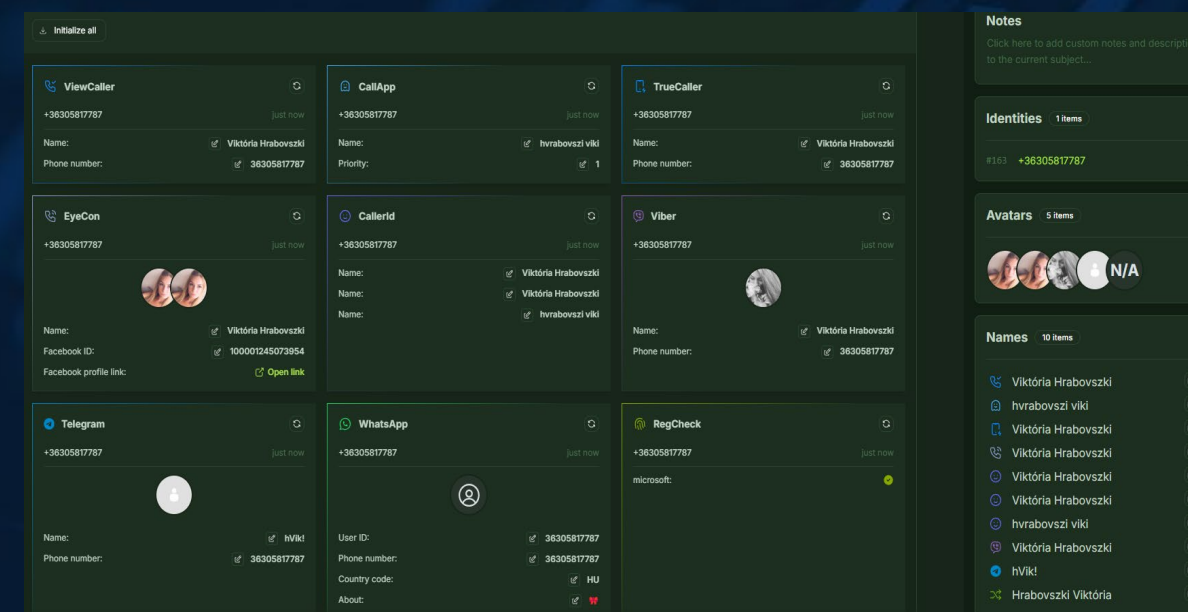
KEY FEATURES

Easily access valuable insights with just a phone number: no technical expertise required.
Our user-friendly interface makes searching quick and intuitive, so you can get results in minutes.
Unlock powerful data from multiple sources: simple and fast.

S+

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DETAILS

Our application is also prepared for scenarios where the phone is at risk of getting into unauthorized hands. With a simple gesture, encrypted conversations and other related features of the S+ application will be hidden, as we switch back to the usual Signal mode, making them invisible to prying eyes. Once back to the usual Signal mode, messages from other S+ applications will not appear, but calls can still be received. Switching over to the S+ mode, these extra secure messages will

appear again. By installing the S+ application, you can continue using the Signal-operated infrastructure and Signal servers, plus maintain communication with regular Signal users in the usual manner. S+ guarantees that audio and video calls and instant-message exchanges with other S+ users become extra secure, thanks to the additional protection we have implemented in the form of end-to-end AES encryption between the communication endpoints.

SP · SERVER · DATA

VOIP app

SCI NETWORK

S+

AES-256 ENCRYPTION

APP DEV · APP · Encryption
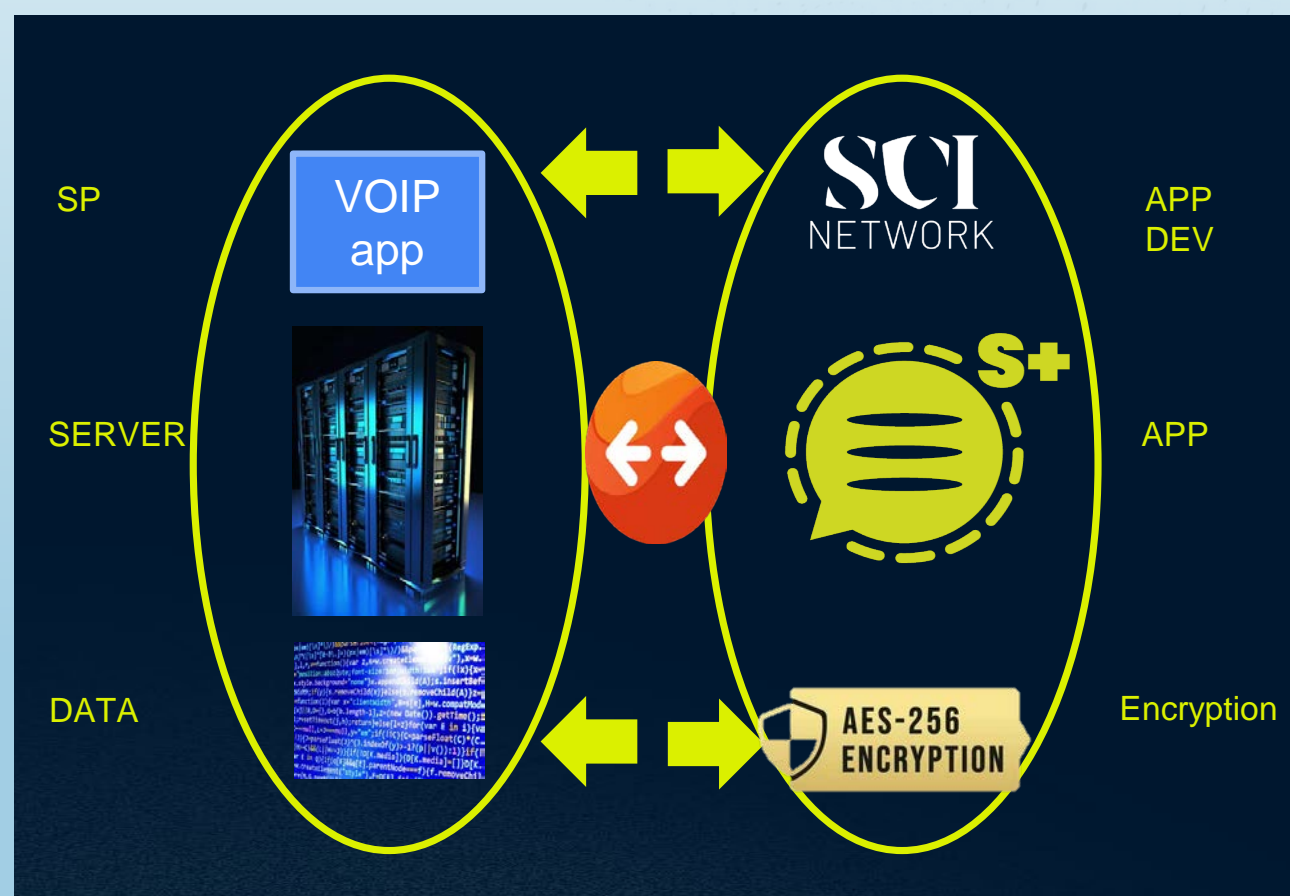
KEY FEATURES

Extraordinary on the inside, ordinary on the outside!
Our unique development provides a solution for those who seek enhanced security for their conversations and messages but do not wish to arouse suspicion by using a new, unfamiliar application.

NOTES

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