



PRODUCT OVERVIEW 2026

FACT SYSTEMS™
THE BETTER IS THE
ENEMY OF THE GOOD

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FACT SYSTEMS is the leading system provider for laser duel simulations

FACT SYSTEMS GmbH has everything that it takes: Our portfolio is designed for training and simulation use by police, customs, special task forces, special units, military forces, as well as private security forces. The goal is to support trainees in their education from the ground up.

In doing so, we make a distinction between three different training levels:

- 1. Static training on static targets**
- 2. Dynamic training on static targets (or vice versa)**
- 3. Dynamic training on dynamic targets**

FACT SYSTEMS offers maximum flexibility, high precision and the easy operation. And this in combination with an unbeatable price-performance ratio. This and excellent personal service are our ingredients for successful cooperation. As a dynamic company, we are always able to respond quickly to special customer requests and offer tailor-made solutions together with the users.

FACT SYSTEMS knows: The lives of our customers ultimately depend on the best training options. The needs of the users therefore always come first. We at FACT SYSTEMS have realigned our entire product line based exactly on this approach. All components are completely compatible and can also be used

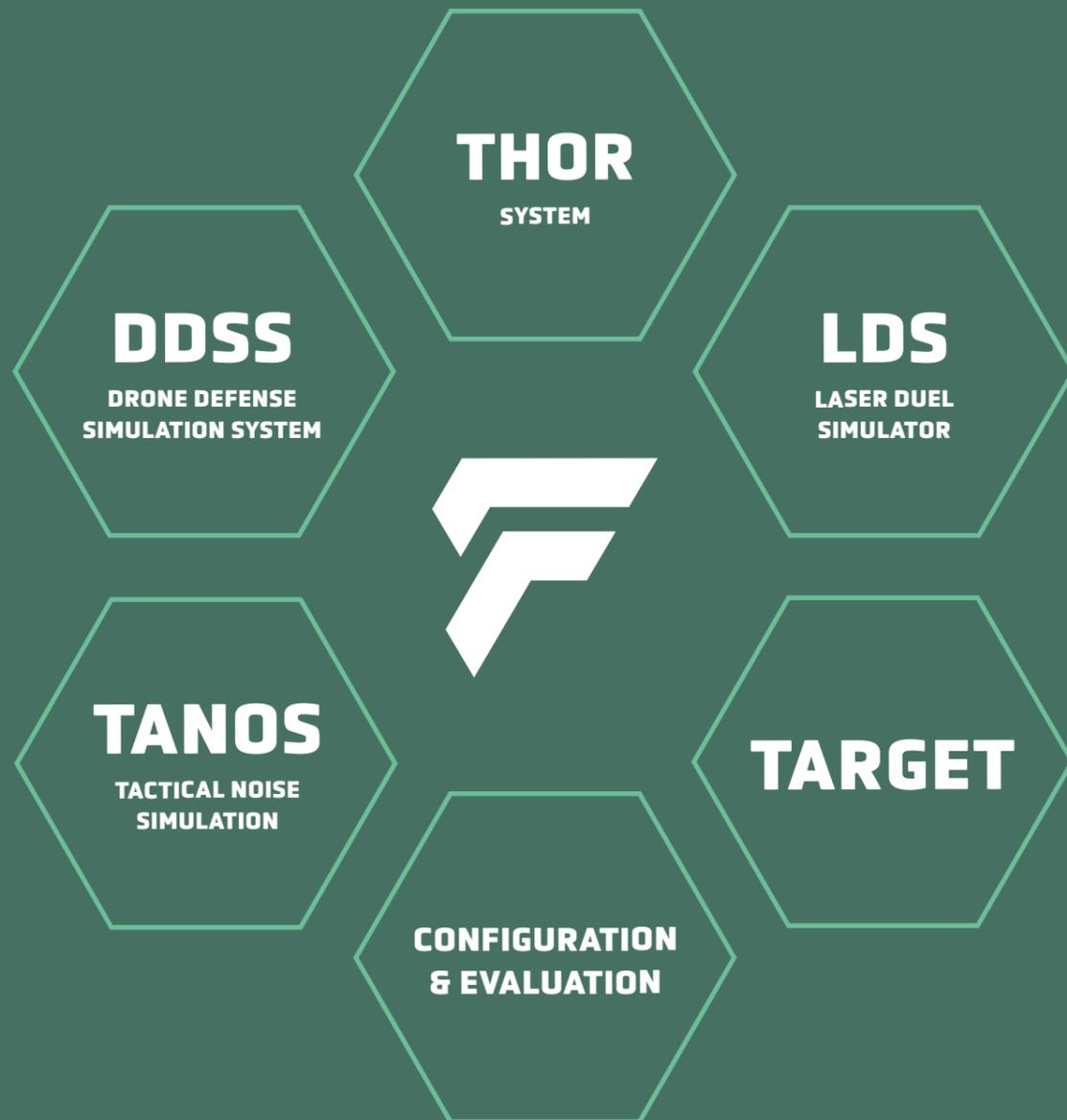
in a supplementary way. We are convinced that this new modular assembly option for all components according to customer requirements constitutes a next step in the evolution of laser-based simulators.

The better is the enemy of the good. Your FACT SYSTEMS team

THE FACT TRAINING SYSTEM

EVOLUTION IS THE
CONTINUOUS PROGRESS
OF KNOWLEDGE AND THE
REPLACEMENT OF THE
GOOD WITH THE BETTER.

We have committed ourselves to this guiding principle.



THOR



THOR

The measure of all things

"One for all": the FACT SYSTEMS idea for the development of our THOR system. Its core is our Single Sensor, which allows a wide range of application areas to be covered using just a single product for the first time.

Our laser-based training system has been simplified in its complexity to such a degree that our Single Sensor constitutes the perfect solution for a wide range of applications.

We at FACT SYSTEMS have listened: We had many conversations with users from special units who repeatedly emphasized how important it would be to not be impaired by their tactical equipment when wearing a sensor vest. This is not an easy thing, since police officers and soldiers are increasingly being more tactically equipped. Thus,

the Single Sensor was the logical consequence. We create FACTs systematically: Minimum dimensions and weight and state-of-the-art swarm technology are how we do this.

But FACT SYSTEMS goes one step further. We do not want to just replace the sensor vest with the Single Sensor. The Single Sensor can do much more. Through innovative solutions, the Single Sensor becomes a helmet unit, a wide range of hit targets, a drone sensor kit, and much more. Thus, THOR can be used in different ways every day, since FACT SYSTEMS makes the complex unbelievably simple and unbeatably efficient with this user-friendly solution.



FACTS

- › Minimum form factor for maximum flexibility
- › State-of-the-art swarm technology (completely wireless)
- › Powerful RGB hit LED
- › IR hit LED for scenarios in low light
- › Inductive charging
- › IP67 complete system
- › Optionally T-shock-compatible
- › All parameters can be adjusted via NFC interface



- FACTS**
- > Weighs 132 g
 - > Impact-resistant and water-proof
 - > Inductive charging

THOR Central Unit

The central unit is the core of every THOR system. It controls all paired devices and establishes the connection to our configuration app. In addition, the central unit transmits all collected data to the evaluation devices.

It is compact in size and can be stowed practically anywhere on the body. Thanks to the full rubber coating, it is robust, impact-resistant, and waterproof.

THOR Single Sensor

The Single Sensor is our innovation advantage and unmatched in versatility. Small, lightweight and a true standout.

At just 57 grams, it is barely noticeable, but impossible to miss when hit. This applies in every situation, as even the light intensity can be

adjusted using state-of-the-art RGB and IR LEDs. Since the hit zone of the Single Sensor can be adapted, no target is too large or too small. The Single Sensor simply adapts to the target.



- FACTS**
- > Weighs only 57 g
 - > Minimal dimensions
 - > Impact-resistant and water-proof
 - > Inductive charging
 - > Hit LED and IR LED



Single Sensor Velcro adapter

THOR

360-degree Single Sensor

The 360-degree Single Sensor is a perfect example of how we truly live our company philosophy: The good is always replaced by the better.

It is functionally identical to the Single Sensor, but features a dramatically expanded hit zone covering a complete 180-degree sphere. This makes our system even more versatile and adaptable.



FACTS

- › Weighs only 60 g
- › Minimal dimensions
- › Impact-resistant and waterproof
- › Inductive charging
- › Hit LED and IR LED



FACTS

- › Compact and lightweight
- › Impact-resistant and waterproof
- › Inductive charging
- › Certified and patented

THOR

T-Shock Unit

Our T-Shock unit is indispensable in modern force-on-force training. It is the answer to "the fear of being hit". Only in this way does tactical training become realistic. Otherwise, it becomes playful – and we have no time for games. Misconduct must immediately result in impressive and clearly noticeable consequences. Hits must "shock".

Since every body is different, the user can, of course, determine the intensity individually before training.

If a user is hit and wounded, the T-Shock unit stimulates in irregular waves to prevent adaptation to impulses. That alone is not enough: a G-sensor monitors the movement of the user. If the user crouches, the stimulation intensity is reduced. If the user moves – or even runs away as fast as possible – the intensity increases in the truest sense of the word, "abruptly"... Because what happens to wounds that are moved? They hurt ...



RAL 7013



Single Sensor Velcro adapter



Velcro adapter loss-prevention fastener



Free choice of color thanks to RGB LED

THOR Charging Case

For the entire THOR system, the charging case serves as storage and charging station in one. All components, with the exception of the weapon lasers, are charged inductively. It doesn't get any easier.



FACTS

- › Inductive charging station
- › Versatile accessory pockets and document compartment in the case lid
- › Dustproof and waterproof – IP67



FACTS

- › 360-degree spherical hit zone
- › Inductive charging

THOR Head Unit

Our head unit is a Single Sensor hybrid that has extended its "feelers". This ensures that every hit, from every angle, is reliably detected. Even more minimalistic and lighter than its predecessor, it fits on any helmet.



Free choice of color thanks to RGB LED



Charging option



Integrated pocket

LDS / LASER DUEL SIMULATOR

LASER DUEL SIMULATOR (LDS)



The laser duel simulator system can also be supplemented with individual components of the THOR system.

LDS

Body Central Unit

The Body Central Unit is the core of the FACT LDS system.

It is in constant wireless communication with the other components such as the head unit, the leg unit and the laser units. Our T-Shock is fully integrated into the central body unit.

The Body Central Unit is designed like a carrying frame and adapts perfectly to the body. It can be adjusted in size. The central body unit fits perfectly on tactical vests with the MOLLE system.

The Body Central Unit is available in 2 different versions: Basic and Advanced.



FACTS

- › Ergonomic for best wear comfort
- › Adjustable to body size
- › Optical / haptic / acoustic hit indicator
- › RGB hit LEDs
- › 360-degree hit zone
- › 3 subdivided hit zones: upper body front, upper body rear and arms
- › 22 sensors and 6 hit LEDs
- › Integrated T-Shock unit
- › Adjustable number of hits leading to neutralization of the user



Free choice of color thanks to RGB LED



- › Adjustable to helmet size
- › RGB hit LEDs
- › Adjustable number of hits to neutralize the user
- › 360-degree hit zone
- › 6 sensors and 1 hit LED
- › Wireless connection to the central body unit

FACTS

LDS

Head Unit (helmet and cap)

The Head Unit (helmet) is in constant wireless communication with the Body Central Unit.

The Head Unit detects hits within a 360-degree hit angle. A hit is indicated by illumination of the RGB LEDs across the entire body.



Free choice of color thanks to RGB LED

LDS Leg Unit

The Leg Unit expands the user's hit zones. It consists of two separate components (left and right leg).

The Leg Units are in constant wireless communication with the Body Central Unit. They are secured to the weapon belt, inner belt or trouser belt. Together, both leg units form a 360-degree hit field. A hit is indicated by the illumination of the RGB LEDs on the leg unit.

FACTS

- › Ergonomic for best wear comfort
- › Adjustable to thigh circumference
- › RGB hit LEDs
- › 360-degree hit zone
- › Adjustable number of hits leading to neutralization of the user
- › 8 sensors and 2 RGB hit LEDs
- › Wireless connection to the central body unit



Free choice of color thanks to RGB LED

THOR & LDS

THOR & LDS

Weapon Laser

Thanks to our specially developed infrared laser, we are able to offer the most precise system currently available on the market.



FACTS

- › Laser class 1
- › Range over 500 m
- › High precision
- › Can be mounted on Picatinny rail
- › Compatible with a wide variety of weapon systems (real firearms with blanks, blue gun, FX, airsoft)

THOR & LDS

Weapon Laser WLP 500

The laser can be mounted quickly and easily on all pistols with a Picatinny rail. It is also very well suited for medium-distance weapons, as its range of over 500 meters also covers this operational firing range.

Of course, our weapon laser is certified as laser class 1 and requires no additional protective equipment, as is required when using man marker rounds.

THOR & LDS

Weapon Laser WL 500

Our Weapon Laser WL 500 can be mounted quickly and easily on all long guns with Picatinny rail.

Its alignment allows for interference-free targeting, even with very low optical sights.

It works with blank ammunition on real weapons, FX training ammunition and airsoft weapons powered by CO₂ or electrically. In addition, the weapon laser can be triggered using our manual trigger, which allows blue guns to be used. It can be supplemented with a scope sensor or our brand-new weapon laser sensor.



- › Laser class 1
- › Weapon laser has short- to medium-distance range over 500 m
- › High precision
- › Picatinny mounting
- › Compatible with a wide variety of weapon systems [real firearms with blanks, blue gun, FX, airsoft]

FACTS



- › Laser class 1
- › Weapon laser for short- to medium-distance range over 500 m
- › High precision
- › Picatinny mounting
- › Compatible with a wide variety of weapon systems [real firearms with blanks, blue gun, FX, airsoft]

FACTS

THOR & LDS

Weapon Laser WL 500 SF

The new Weapon Laser WL 500 SF is the result of consistent further development with a focus on dimensions and weight. At just 160 g including the battery, it's a true lightweight.

But we did not compromise on functionality. All add-ons are also available here. Whether manual trigger, scope sensor or our brand-new weapon laser sensor.

THOR & LDS

Weapon Laser WLS 1000

Our Weapon Laser WLS 1000 is our spearhead when it comes to range. Only slightly larger and somewhat heavier than our 500 series, it offers double the range.

Great emphasis was placed on achieving the lowest possible profile, as an unobstructed view through the scope is essential. In addition, the distance to the bore axis has been reduced to a minimum.



- › Laser class 1
- › Weapon laser for short- to medium-distance range over 1000 m
- › High precision
- › Picatinny mounting
- › Compatible with a wide variety of weapon systems (real firearms with blanks, blue gun, FX, airsoft)

FACTS



THOR & LDS

Scope Sensor

An ideal add-on is our counter-sniper unit. Attached to the laser and mounted on the scope or the weapon, it provides a 180-degree hit zone. Equipping a sniper with body-mounted sensors is, in some cases, impractical due to camouflage.

Naturally, a hit is clearly indicated by an RGB LED. And when used in combination with the T-Shock, the user's inappropriate reactions will certainly not be rewarded.

The Scope Sensor can be used with all of our weapon lasers except the WLP 500.

THOR & LDS

Weapon Laser Sensor

Our new Weapon Laser Sensor is once again an innovation leap that none of our competitors have addressed so far. What good are the best sensors if they are covered by the weapon and arms, or not visible at all because the shooter is concealed and simply firing the weapon around a corner?

Our new Weapon Laser Sensor is the precise solution for this. To make training even more realistic. Mounted directly at the front of the laser, it allows hits to be registered even when firing at a steep angle into the weapon.

Often, it is the small things that make the decisive difference. The scope sensor can be used with all of our weapon lasers except the WLP 500.



THOR & LDS

Manual Trigger

The Manual Trigger for our laser units is essential. It is and remains the simplest way to conduct training, especially when the use of blank ammunition is not possible for safety reasons.

We offer it in two versions. One trigger mounted in front of and one behind the actual weapon trigger. The customer can decide. The manual trigger can be used with all of our weapon lasers except the WLP 500.



Usable on any weapon



THOR & LDS Configuration Tablet

Using the Configuration Tablet, all configurations of the overall system and the individual components are performed wirelessly.





- › 360° hit zone
- › Compatible with various drones
- › All-day operating time

FACTS

DDSS (THOR and LDS compatible) Drone Defense Simulation System

Have we mentioned that our Single Sensor 360 is a true multi-talent? In this case, as a training tool for the fast and precise engagement of drones.

With our Drone Defense Simulation System (DDSS), you can perfect this critical defense capability and ensure immediate and decisive action when fast reaction times are essential.

Our Drone Defense Simulation System (DDSS) fits any commercially available drone to provide you with practical skills for controlling your airspace. Our system offers practical and easy training to master this crucial task.

**AIMING
TARGET**



THOR and LDS compatible

Aiming Target

As the name suggests, our Aiming Target is designed exactly for that purpose. Fast and efficient. It is a roll-out target that also enables quick and efficient basic shooting training.

The Aiming Target features 3 programs:

Program 1: Multi-shot target shooting

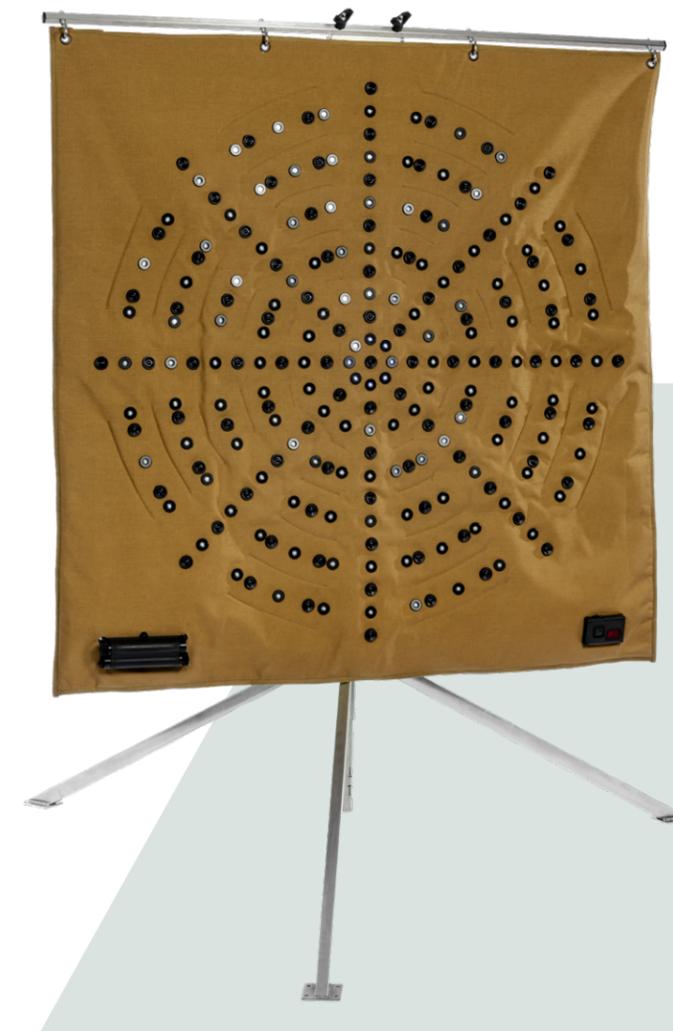
Each hit is indicated by an individual LED (different colors). Up to 3 exactly identical hits at the same position are possible and clearly visible to the shooter.

Program 2: Single-shot target shooting

The hit is indicated by a green LED. The target circle is displayed in red.

Program 3: Reaction shooting

The target independently generates segments. While a segment is illuminated, it can be engaged.



FACTS

- › Electronic target with many options
- › Optical hit indicator
- › 3 programs

**TANOS /
TACTICAL NOISE
SIMULATION**

TANOS SIMFIRE Kit (.50 caliber)

A shot is acoustically simulated (bang) using the SIMFIRE Kit (.50 caliber). The shot is fired using a manual trigger mounted directly on the weapon trigger.

The TANOS Ammo Box is used for .50-caliber weapon systems (or similar). It is gas-powered (MAPP gas) and therefore virtually cost-neutral. The SIMFIRE (.50 caliber) is perfectly matched to our system but can also be combined with other training systems or used autonomously.



- FACTS**
- › Fired shots are simulated acoustically (bang), and visually (muzzle flash) as an option
 - › Sound level: up to approx. 150 dB
 - › Firing rate up to 600 rounds/min



- FACTS**
- › Fired shots are simulated acoustically (bang), and visually (muzzle flash) as an option
 - › Sound level: up to approx. 170 dB
 - › Firing rate up to 200 rounds/min

TANOS SIMFIRE Kit (25 mm / 30 mm caliber)

The SIMFIRE Kit (25 mm / 30 mm caliber) is a gas-powered noise simulation device.

Large-caliber weapon systems, IEDs, artillery impacts, etc. can be simulated using the noise simulation device. This is triggered using cable or remote control.



> CONTACT

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information.**

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