

DAVNAR
TECH

ADVANCED SHOOTING SIMULATOR

UP TO 6 LINES

LAW ENFORCEMENT
AND MILITARY



DAVNAR Tech

Advanced Shooting Simulator

► Mod. PTV-2 / PTV-4 / PTV-6



- ① It can be set up for 1-2-4-6 lines. Dry fire. Easy installation in Fixed or Mobile Version.
- ② Shooting range with fixed and moving targets, with parameterizable distances. Marksmanship exercises, Two Men Drills, Competition, Shoot Off, Joint Tactical Actions.
- ③ Shooting Competition [Shoot Off] with Different Degrees of Difficulty and Unforeseen Situations. **COMBAT DRILLS.**
- ④ Decision making exercises with simulation of real situations: Interactive videos and interactive 3D scenarios
- ⑤ Weapons with wireless communication and/or Real Weapons replicas adapted for Special Forces
- ⑥ Scenarios that can be customized to the user's needs. Pre and Post shot diagnostics with short and long weapons, and replicas.
- ⑦ Daily, monthly, and customizable Reports of scores for each session and each shooter.
- ⑧ Screens, Manuals and Reports in English, Spanish and Portuguese.
- ⑨ Training with no risk of accidents, without ammunition costs and with minimal environmental impact.

Versions available with 2, 4 and 6 simultaneous lines, with weapon replicas with or without communication [depending on the model].

TECHNICAL SPECIFICATIONS

	PTV-6	PTV-4	PTV-2
Advanced Shooting Simulator specific for Security and Defense Organizations - Local Police. With A WIDE RANGE of OPTIONAL benefits. A SPECIAL EVOLUTIONARY MAINTENANCE SERVICE IS OFFERED WITH PERMANENT UPGRADE OF THE SIMULATOR	Yes	Yes	Yes
CONVERSION KIT for GLOCK 17 Replicas (OR OTHERS) with blowback or IR laser ammunition for handguns and Assault Rifles Cal 9mm (without blowback) / OPTIONAL, SEE Kits for recoil weapons	6	4	2
3D exercises and real videos, 3D IPSC PRACTICAL SHOOTING TOOLBOX - UNLIMITED EXERCISES TO CREATE AND SAVE BY THE CUSTOMER; interchangeable background images / OPTIONAL: SEE customer-created videos	NEW FEATURES	NEW FEATURES	NEW FEATURES
Maximum Number of Shooters. Different independent exercises to practice marksmanship, two men, competing, or in joint tactical actions.	Up to 6; identifies EACH shooter	Up to 4; identifies EACH shooter	Up to 2; identifies EACH shooter
Projector: Full HD / Screen Dimensions:	4,20 m. x 2,40 m.	4,20 m. x 2,40 m.	4,20 m. x 2,40 m.
Projector - Screen Distance	5 m	5 m	4 m
DETAILED REPORTS on each exercise and video: PDF/E-Mail	Yes	Yes	Yes
Scalable models (ADDITIONALLY)	Model that may come from previous scaling	From 4 to 6 lines	From 2 to 4 or 6 lines

All Models Accept The Following Optionals

Exercises: The customer can purchase new 3D Exercises upon request. Videos can be made by the client (<3 min) and mastered by DAVNAR Tech.

Kits for Rifles 4.5/ 5.5/ 6.35 mm // .177/.22/.25 Shotgun 12/16 gauge without Blowback

Kits for other Long Guns with or without blowback CHECK BRANDS AND MODELS

Precision Kits for REAL Handguns: CHECK BRANDS AND MODELS

The PRE-FIRE and POST-FIRE of the weapon, with configurable times, is recorded and graphically represented in a target report.

Premium Training: Curved screen to create a more immersive environment.

HYBRID FUNCTION (practice with live ammunition) - INDOOR RANGE WITH SHOTS RECORD - and with dry fire - SHOOTING SIMULATOR -

Real life training with multiple screens (120° or 180° view)

ACCESORIES

DAVNAR
TECH

• ADVANCED SHOOTING SIMULATOR



Non-Lethal Weapons

Available with DAVNAR Tech Advanced Shooting Simulators

Virtual Non-Lethal Weapons that Immobilize the opponent in various ways.

**Tactical
Pepper
Spray**

**Tactical
Electric
Baton**

**Tactical
TASER**

Your Real Weapon for Virtual Shooting

With IR Laser Device

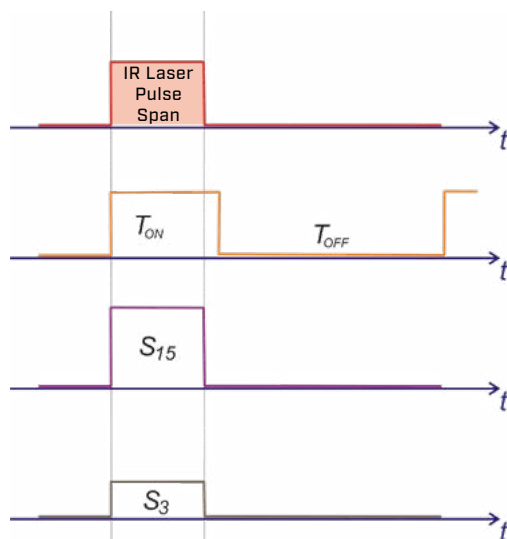
How does it work?

The IR Laser Device by DAVNAR Tech generates infrared laser light, providing instant visual information about the location of each shot during different exercises in the DAVNAR Tech Advanced Shooting Simulator. The IR Laser Device features a rechargeable battery and a mini-USB connector [with connection cable].

The IR Laser Device and its digital shooting system operate when activated by a sensor, triggered by the vibration generated by the blowback effect; it is easily mounted on the Picatinny Rail of the replica. ▶



IRM IR Laser Device



*IR Laser Device Operational
Parameters*



Pistol with IR Laser Device

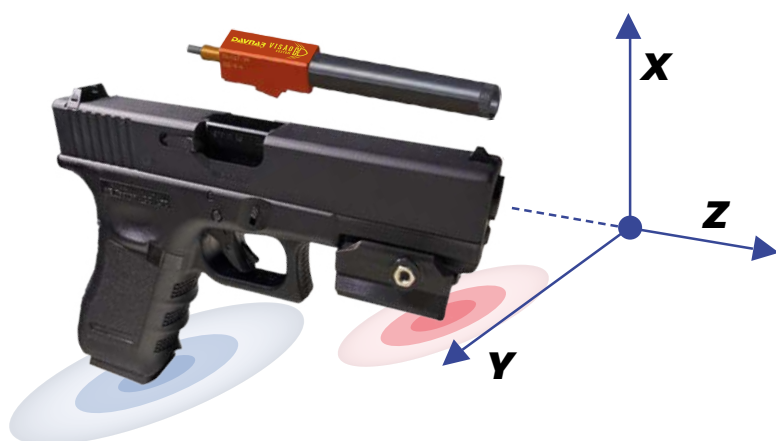
How does it work?

The most realistic way to practice virtual shooting with a real firearm is by using a DAVNAR Blowback Kit + VISÃO CUSTOM with a DAVNAR Tech IR Laser Device. The IR Laser Device is installed on the Picatinny rail of the firearm. The barrel is changed in the firearm during virtual shooting practice.

The change from a real firearm to virtual use results in a safe training, as the firearm barrel is removed, eliminating the chamber and any possibility of inserting real ammunition. It is replaced with a new barrel compatible with the firearm.

The system has been developed to be used with compressed CO2 gas, easily available and low-cost. This way you can experience the benefit of realistic training with blowback, where DAVNAR + VISÃO CUSTOM conversion barrels specific to each real pistol are used to achieve the recoil effect. SEE AVAILABLE MODELS - ASK ABOUT OTHER MODELS.

Every time the trigger is pressed, the slide moves as if a real shot is fired, and at the same time, an infrared IR laser pulse is generated as a result of the described movement.



It is worth noting that DAVNAR + VISÃO CUSTOM Blowback Kits come with qualified technical support when purchased from authorized agents. ▶

Blowback KITS

BRAND	MODEL
GLOCK 17	gen 3
GLOCK 17	gen 4
GLOCK 17	gen 5
GLOCK 19	gen 4
GLOCK 19	gen 5
Beretta	PT 92
Bersa	TPR 9
Taurus	1911
Taurus	1911 BULL
Taurus	PT 92
Taurus	TS 9
Imbel	MD 2
Imbel	MD 1
STI	2011
VISÃO	3011
OTHER MODELS UNDER DEVELOPMENT	

Long Guns, Rifles and Revolvers

How do they work?

For the adaptation to virtual use, both in 12 Gauge shotguns and in compressed air rifles or various replicas with or without Blowback, an IR Laser Device is used, placed at the end of the barrel, with or without the Picatinny rail.



12 Gauge

If there is a Picatinny rail, the IR Laser Device is installed at the end of the rail. If there is no Picatinny rail, a Picatinny rail emulator is used (see image), and with every firing pin impact, the IR Laser Device emits a pulse that hits the screen of the Shooting Simulator as a result of the generated vibration.



Picatinny Rail Emulator Mount Example

Upon clients' request, a 12 Gauge cartridge emulator, a 9mm or .38 Caliber ammunition emulator can be supplied. This way the firing pin impacts a high-resistance rubber surface, solely to ensure the impact is not in a vacuum, thus reducing the vibration of the firing pin.

The use of the cartridge / ammunition emulator also provides greater safety, as it ensures the impossibility of inserting real ammunition during virtual shooting practice.

The installation at the end of the barrel tube of the IR Laser Device is temporary and only takes place during virtual shooting practice, using a Picatinny Rail emulator and two disposable self-locking plastic straps.

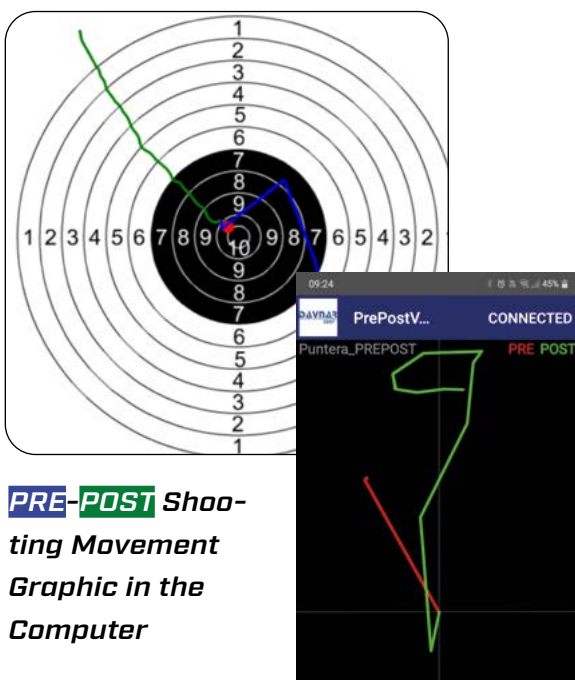
When the shot is fired with the gun replica, carbine, rifle, shotgun, or automatic replica, the firing pin is activated. This generates a vibration that produces an emission of infrared IR laser light, getting instant visual information for the location of the shots during different shooting simulator exercises.



Revolver with Picatinny Rail Emulator

Pre-Post Shot Traceability In Real Firearms and Replicas / Markers

DAVNAR Tech ORM-P IR Laser Device with communication with the Shooting Simulator.



PRE-POST Shooting Movement Graphic in the Computer

The Same Graphic on a Smartphone

The ORM-P IR Laser Device model comes with highly advanced technology, that not only emits adjustable sensitivity IR laser pulses and other configurable parameters, but also houses 6 active motion sensors using nano mechanics technology. Of all these, 3 sensors determine the moment of the IR laser shot, while the other 3 allow the processor of the Simulator / Virtual Shooting Range to 'draw' the movement of the weapon's tip prior to the shot -**PRE-Graph**- using axial and angular technology through analog-to-digital transducers and converters. They also depict the movement of the weapon's tip after the shot -**POST Graph**- in the 10 Zone Target

exercise report. All of this is possible because the IR Laser Device has wireless communication with the Simulator processor. ▶



IRM-P Laser Device

[*] We offer a FREE application for smartphones, so that IRM-P IR Laser Device users are able to practice weapon control before and after each shot on their phones, without the need for any Simulator. The manufacturer has developed a website that is accessible to IRM-P IR Laser Device users, where customers who subscribe with a minimal annual fee can re-set their IR Laser Device and adjust settings for different firearms.

Settings website for PRE-POST Laser Devices

Parameter changes

Modelo:
Pre Post Davmar

Hardware:
34

Firmware:
7.0

TRIGGER TIME

50

APPLY

Sets the trip time to xxx msec. More information AQUi

TIMEOUT

100

APPLY

Set repeat time to xxx msec. More information AQUi

MODE

Puntera normal

Modo Prepost

APPLY

Set the operating mode. More information AQUi

SENSIBILITY

10

APPLY

Sets the trip time to xxx msec. More information AQUi

NUMBER OF SHOTS

0

NUMBER OF SHOTS

0

The number of shots fired. AQUi

NUMBER OF PRE-SHOT SAMPLES

8

APPLY

Sets the number L of pre trigger samples. More information AQUi

NUMBER OF TOTAL SAMPLES

20

APPLY

Sets the number H of total samples. More information AQUi

BLUETOOTH NAME

Puntera_PREPOST

APPLY

Choose a new Bluetooth name. More information AQUi

SAMPLE RATE

100

APPLY

Set the sample rate. More information AQUi

GYROSCOPE SCALE

Pistol with Picatinny Rail and IRM-P Laser Device

9

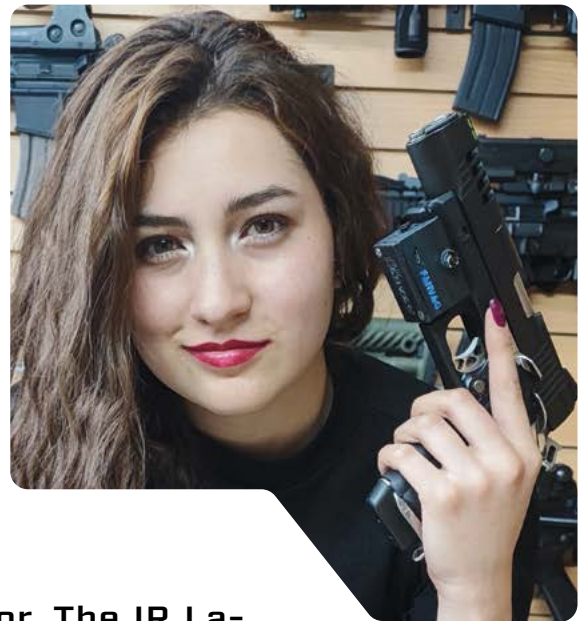
Replicas with IR Laser Device

How do they work?

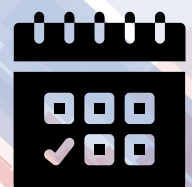
With Blowback

These are Markers / Pistol Replicas with original brand markings and licenses, powered by Green Gas - CO2 - / Battery. The IR Laser Device and its digital firing system activate when triggered by a sensor, responding to the vibration produced by the blowback effect; it is easy to mount on the Picatinny Rail of the replica.

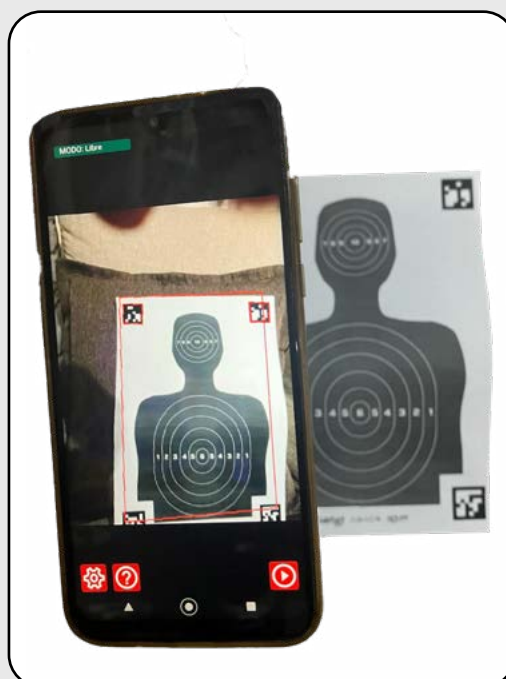
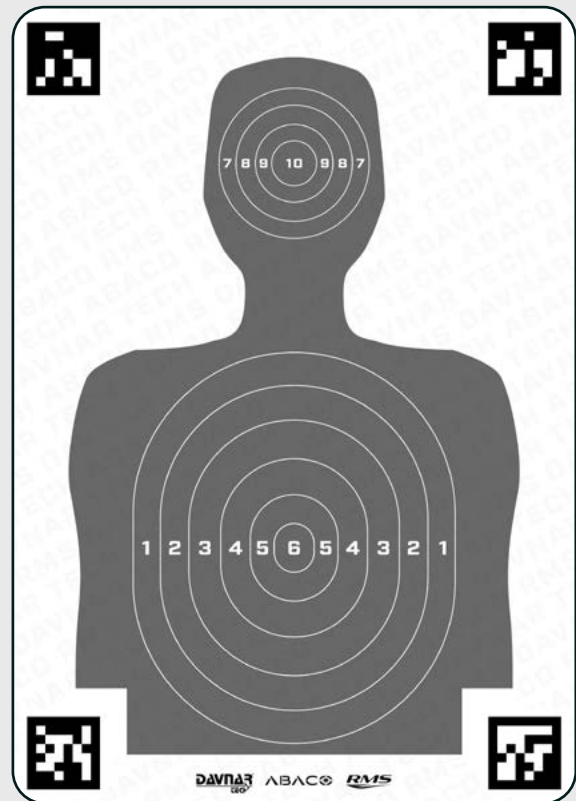
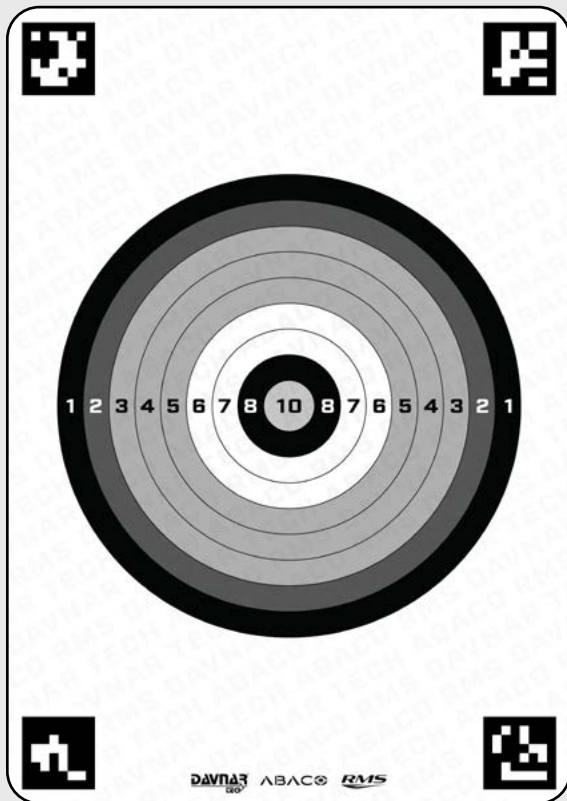
The Laser Device generates an infrared laser light, providing instant visual information about the location of each shot during different exercises in the DAVNAR Tech Advanced Shooting Simulator. The IR Laser Device come with a rechargeable battery and a mini-USB connector [with connection cable]. ▶



***New ACCESSORY Features
Under CONTINUOUS
DEVELOPMENT***



Real Shooting Practice with Remote Viewing and PRE-POST Shot Recording



Other Accessories

Tactical Stress Jacket

Screen shot sensitive vests. The Jacket Stress System emits an infrared pulse by which the shooter feels in its own body the shots received from each opponent through a vibration of the vest.

The system records the shots received and who shoots each Jacket Stress System. ▶



Tactical Flashlight



illuminates the screen in exercises that take place in low light. With this accessory, shooters gain experience in darkness, using a weapon and a flashlight simultaneously.

Military Grade Cases with Foam Interior



Immersive Training Experience

Multiple Screen System

With a 180° View



Curved Screen

Hybrid Indoor Range: Real & Virtual

With Shots Recording and Remote Viewing



DAVNAR CLOUD

DAVNAR Cloud is a complete and modular service platform for DAVNAR Tech Advanced Shooting Simulators.

One of the benefits provided by DAVNAR Cloud is the Report Management System. It is a web application that can be added as a service to any client that has a DAVNAR Tech Advanced Shooting Simulator that requires it.

The DAVNAR Cloud Reporting System has a role structure: shooters, instructors, and owners, each with a different need to view the information stored.

The DAVNAR Cloud Reporting System provides statistical calculation operators: standard deviation, square mean, algorithms for using the Gaussian distribution, with different confidence intervals and others. The System has an Artificial Intelligence [AI] engine that analyzes the data and provides suggestions for interpretation of the reports produced.

That is why we say that the DAVNAR Cloud Reporting System allows monitoring and a process of continuous improvement in the shooter's skills, guaranteeing optimal results over time.

DAVNAR Cloud is an expanding platform, as new needs for tools as a service arise from our clients. The Reporting System is part of the data maintenance service originated in the DAVNAR Tech Advanced Shooting Simulators, at a very low monthly cost, for each shooter. ▶



KILL HOUSE



Premium Training with Stress House function -CQB, CQC-: Modular and portable unit, for raid training and to recreate kill house/shoot house scenarios. Reports made by the Simulator on the performance of each man. Wireless system for recording virtual shots of opponents and officials. ►

KILL HOUSE

Figures - 3D



Real Video



Threatening Kidnapper



Wounded Kidnapper



Kidnapper Down



**KILL House
Facilities Used
for Training**

TRAINING

1

REAL VIDEOS

Real training exercises to improve the skill of the shooter who moves through a virtual training field, training coordination and speed following the shooting sequence.

Customers can create their own videos (t < 3') - Optional.

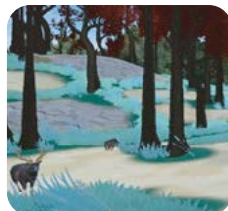


2

INTERACTIVE 3D

Advanced training to improve the skill of the shooters moving through a virtual training field, exercising coordination and speed in which they must follow the shooting sequences, complexity, and configuration.

This exercise is ideal to develop the Drill 2 IN THE CHEST 1 IN THE HEAD; this exercise is used to train Special Forces around the world.



3

TACTICAL TOOLBOX

***With Settings that
Simulates Stress
Conditions***



4

TOOLBOX IPSC-IDPA

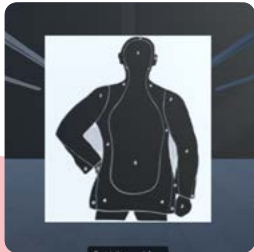
***FOR 3D STAGE
DESIGN***

CUSTOMIZED ↻

DESIGNED ↻
ESPECIALLY
FOR INSTRUCTORS



New Exercises Under Constant Development



FBI Target



Training Field

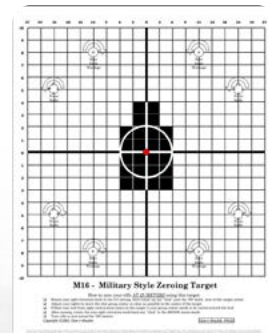
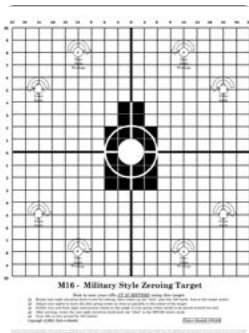


Moving Targets



Sequence 10

EXERCISES FOR M-16



POLICE TRAINING EXERCISES



DAVNAR

YouTube Facebook Instagram LinkedIn **DAVNAR TRAINING**

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