

DISAG

# OpticScore



RELIABILITY WITH THE HIGHEST PRECISION

**Electronic Shot Evaluation  
from DISAG**



WELCOME

# DISAG OpticScore



**Bright. Friendly. Modern.**  
This is the face of today's competitive shooting. The most impressive is DISAG's electronic target system.

Those choosing our product live this central message. No other manufacturer of electronically evaluated shooting ranges assures as much true passion for competitive shooting, technological innovations and practical implementation. Continuous enhancements and visionary concepts help us to consistently create an excellent assortment of products over a long trusted history. There is no end in sight for our ideas and possibilities. See for yourself with a visit and comprehensive consultation at our model firing range, located at our headquarters in Hallstadt, within Bamberg, Germany. Numerous shooting clubs depend on us for consultations on techniques, lighting concepts and material selection.



**Spectator-friendly**

**User-friendly**

**Uncomplicated**

DISAG



genau.



# EXACT. The **OpticScore** Electronic Target

## The DISAG-OpticScore System

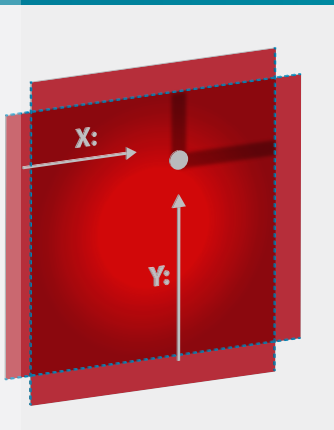
The objective is clear: The fastest possible and most precise evaluation of shots with clear presentation of all relevant information for shooters and spectators. Compact and comprehensible at a glance; these are the principle requirements that our electronic target system meets through its non-contact, optical shot evaluation, which uses the latest software, based on the most current development standards.

## Rising to meet various requirements

Dependability, precision and longevity are not to be taken for granted. Intense research, dedicated development and years of experience are necessary in order to validate these requirements. During the early stages, the success of our products rested on our selection of top suppliers and a strong foundation of quality components. For over 30 years, we have been constantly diligent in the development and production of our system, and throughout the decades, our equipment has continually proven its dependability and tireless performance.

## Precision

Exact. Accurate can hardly describe our measuring system. With the light from numerous infrared LEDs and a specially developed lens that creates a collimated light field invisible to the human eye. This innovative technology makes high measurement accuracy possible. This is accomplished thanks to different certification procedures and proficient with under 5/100 mm.



## Characteristics in Key Points

Optical and noncontact shot detection

Easy target template changes  
via front door

Long-lasting. 2-year warranty

Appealing design

Certified by the Deutsche  
SchuetzenBund e.V [German Shooting  
Sport and Archery Federation] and the

ISSF [International Shooting Sports  
Federation]

Data transfer via RS-232 or  
LAN/Ethernet connection

Low power consumption using modern  
LED lighting

Worldwide first target-changer for air  
rifles / air pistols



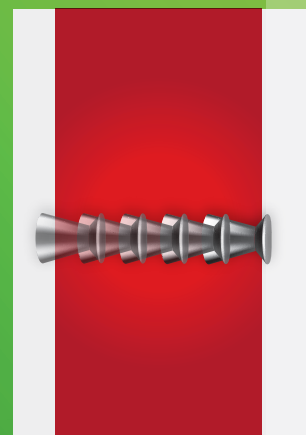
Dimmable  
LED Target Illumination

**2 YEAR WARRANTY**

High-strength Polymer  
Protective Armor

## Measurement Procedure

While passing through the collimated light field, the projectile is recognized and evaluated with a frequency of 40.000 images per second using two high-speed sensors. The high image recognition rate enables the projectile to be detected during the first instant of penetrating the light field. Therefore, we receive not only a measured value, as comparable to other systems, but can also ascertain the most precise accuracy using an entire measurement series of data sets.



## Technical specifications:

**Dimensions:** 330 x 330 x 60 mm

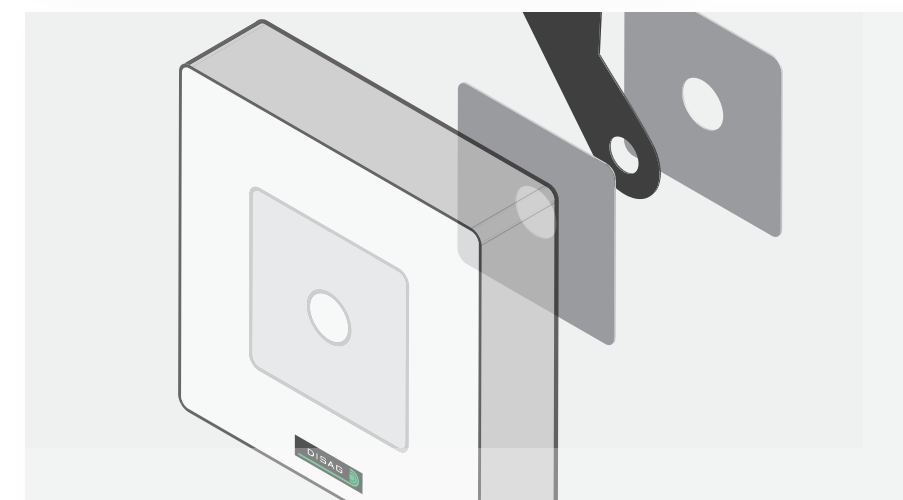
**Weight:** 3.6 kg

**Measuring range:** 170x170 mm

**Data transfer:** RS-232, LAN

**Power consumption:** 12 V / 1.0 A

**The world's first  
air rifle & air pistol  
target-changer**





HARDWARE

Shooter Information

You concentrate on the essentials – we do the rest..

The various Shooter Information Centers serve as the shooters’ interface to their performance. The results are clearly presented and structured on an easy-to-use interface; important information is available at a glance.

TouchScore

A Tablet-PC, elegant 10.4” touch-screen display, and integrated monitor stand – it is an all-in-one device. This is the most important characteristic of our TouchScore product. An optimized touch-screen display concept, coupled with the clear, familiar and simple user interface, makes the

TouchScore an important step into the future. With the simple tap of a finger, the screen leads directly to the desired setting or function without diversion or delay. Thanks to its convenient small size, now there is also more room on the shooting stand available for shooters.



LAN

RS232

Technical specifications:

Display:

10.4 inch LCD

Housing (W x H x D):

270 x 260 x 55 mm

Weight:

1400 g

Operating voltage:

12 VDC

Current consumption:

8.4 W

Data transfer:

Ethernet, RS232, USB2.0



SOFTWARE INCLUDED!

UPDATES! FOR FREE

2 YEAR WARRANTY

Mini-PC

Small. Compact. Efficient. The fan-less Mini-PC is quiet and protected by a compact, aluminum housing. Via the readily accessible connection ports you can easily join the push-button remote,

monitor, electronic target and network together. No profound PC knowledge for set up and installation are required.



LAN

RS232

Technical specifications:

Dimensions:

173 x 113 x 30 mm

Weight:

0.370 kg

Data transfer:

USB, RS-232, VGA, LAN

Power consumption:

18 V – 1.2 A



# SOFTWARE

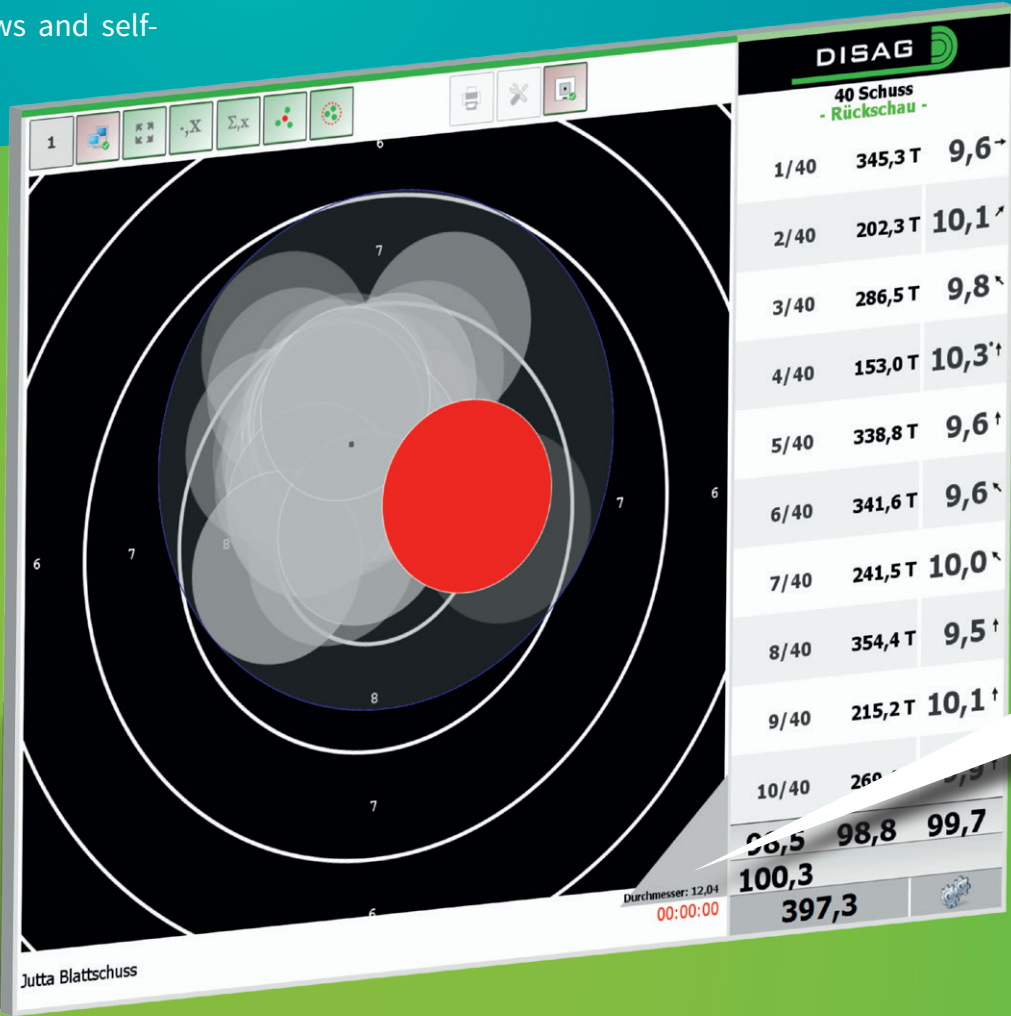
## Shooter Information

### Intuitive operating concept

Up. Down. OK. With these simple commands the user interface can be prompted to the display terminal. Only three buttons on the DISAG handheld push-button remote are necessary for setting up your preferences within the Shooter Information Center. Simultaneously, inputs on your TouchScore's touch-screen display can be entered. Clearly laid out menus, larger views and self-explanatory symbols round off the operation.



Only 3 keys to operate

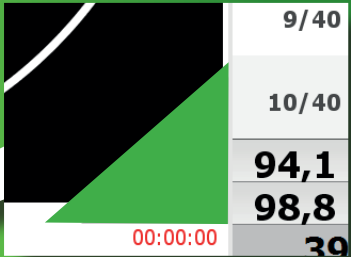


### Clear and simple

Earlier shots are displayed as half-transparent and gray and the current shot is displayed in a defined color according to each target ring. Thanks to this distinct coloring, each ring value is thereby immediately recognizable, not only for the shooters, but also for the spectators.

### Everything at a glance

Shooting information such as shot number, partial value, ring value and shot position, form the basis of the displayed information.



### Leader Recognition

With the use of color, it is obvious which shooter from the pair is in the lead. The comprehensive extrapolation deciphers who receives the green leader's mark.



Zoom view



Tenth-value shot display



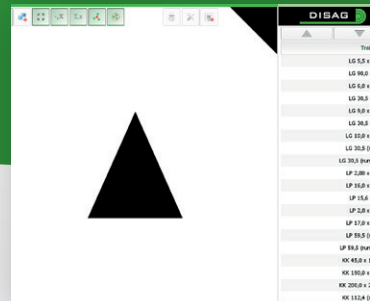
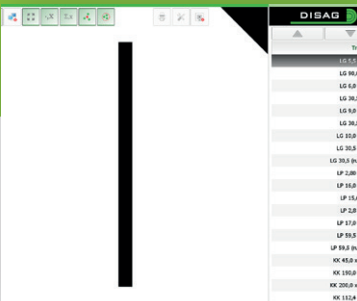
Tenth-value shot sum total



Shot group radius calculation



Shot group center calculation



Numerous integrated training and technical training targets

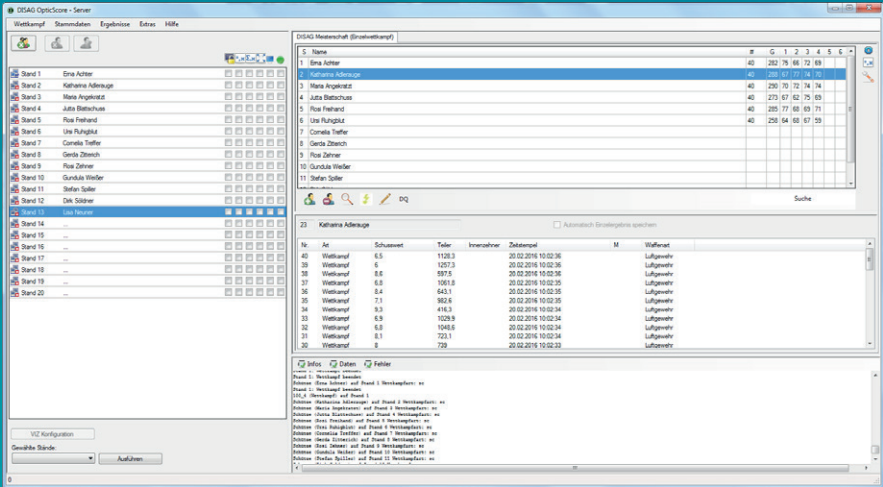


NUMEROUS POSSIBILITIES

# Software

## OpticScore-Server

With the intuitively operable administrative software, OpticScore-Server controls the sporting interests of a club flexibly and is easy to understand. The clarity and compactness of the software is not just made for computer specialists. In the familiar look and feel of Windows software, you feel at home right from the start. All applications and software modules are controlled via a single operating interface. You can also use your server, without difficulty, for administrative work within your club. Your normal office applications are usable in parallel.



## Visualization software

Sports are brought and kept alive by their spectators. And since it is considerably tight at the shooting stand and generally there is not much space for a large amount of spectators, we can provide you an additional tool to help. Our visualization software can expand your DISAG viewing experience into a major viewing attraction. Using this product you can offer competitive shooting enthusiasts the possibility of following exciting competitions outside of the shooting range or also bring guests closer to the fascination of competitive shooting in their own shooting ranges. Whether using projectors or flat screen TVs, our visualization software adapts to the existing infrastructure of your shooting location.



Ergebnisse Extras Hilfe

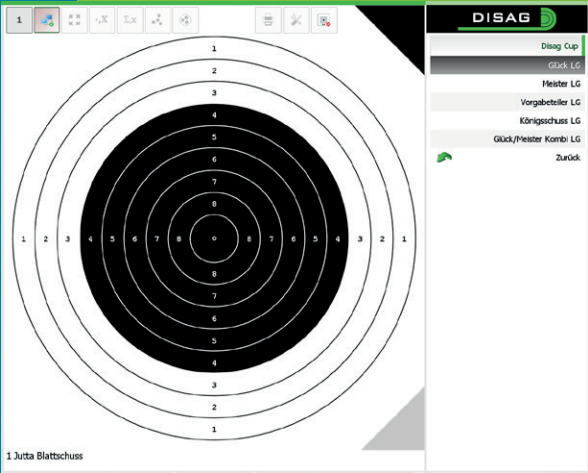
## OpticScore Flex

Holidays, anniversaries, and other shooting tournaments belong to the most important activities in the calendar of any shooting club, and not only for economic reasons. Equally important for each club is to present and allow the shooting matches to be a stress-free experience with a smooth process, for both participants and the organizers. We can help you achieve this with OpticScore Flex! Even in this regard, we have placed the utmost attention on clarity and simplicity of use. Therefore you can maintain both shots and shot evaluation clearly in view with our tournament software.



## WM-Shot Interface

For many years, WM-Shot was one of the leading software products for result evaluation, with the help of other trusted target evaluation devices. For many clubs, it is the first choice when it comes to organizing and executing a shooting competition. For all WM-shot enthusiasts, we present an additional highlight to the DISAG OpticScore installation: the professional interface between WM-Shot and the DISAG OpticScore server software! Never before has the result and data transfer between both software programs been so simple, and they still function automatically, thanks to the WM-Shot modules from the house DISAG.



FREE UPDATES!



MADE FOR EACH OTHER

# RedDot and OpticScore

Only with DISAG is it possible to combine laser shooting on RedDot with your electronic shooting range. The potential possibilities are tremendous. On the same systems where normal competitions take place in numerous disciplines, it is now possible to integrate the laser target. As before, data processing takes place on the shooting monitor and in the

clearly laid out OpticScore server software. All functions, such as result lists, individual printouts and even the visualization of shooter results, are possible in one spectator area.

## Experience the fascination of competitive shooting

With the RedDot and OpticScore products, you optimize the conditions for next generation development. Children's training is truly child's play.



### Rifles

Laser simulation rifle with right/left-loading stock, adjustable cheek-piece and butt plate, as well as full-featured competition trigger and diopter sight.



### Pistols

Pistol simulation pistol with right/left grip and competition trigger as well as adjustable sight.



### Laser Target for Rifles

Precision laser target with increased accuracy and a measuring field of approx. 92 x 92 mm. Also recognizes the "shot" of other laser guns found on the market.



### Laser Target for Pistols

Precision laser target with increased accuracy and a measuring field of approx. 200 x 200 mm. Also recognizes the "shot" of other laser guns found on the market.



### MiniView

3" Touchscreen for strike display. In doing so, use of RedDot is also possible without OpticScore.



MANY POSSIBILITIES

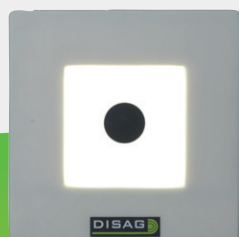
# Components

In addition to the electronic target system, we offer a wide array of accessories perfectly suited for specific individual components. Even afterwards, everything can be simply and comfortably expanded through our modular principle.

**2 YEAR WARRANTY**

## LED-lighting

The integration of LED lighting into the electronic target system is an attractive addition, offering even lighting and a shadow-less target template. To accomplish this, numerous complex trials were conducted to determine the best light color suitable for rifle and pistol. The brightness can be adjusted, by means of a step-dimmer, to establish a uniform brightness level for all situations. LEDs are renowned for their long life and very low power consumption. The power supply of the LEDs comes directly from the electronic target and does not have to be generated separately.



## Wall bracket with Bullet Catcher

No longer will you have to deal with diabolo bullets spread all over your shooting range. Our drum bullet catcher catches 100% of all air pressure projectiles and passes them into a separate collection container. At the same time, the wall mount with drum bullet catcher is the optimum mounting possibility for the electronic target system. Use the indication markers on the back as a drilling template. Alternatively, you can also set it up with a tripod.



## Air Pressure Protective Armor

Unfortunately, not every shot hits the target. If the electronic target has a painted steel faceplate, these shots can leave unsightly impressions and spalling. To prevent this, all our new target systems are delivered with a special high-strength plastic target armor. The equipment appears as good as it did the first day even after years of use. No imprints or blemishes. By the way ... also older electronic targets can be retrofitted with this protective armor.



## Granulated Bullet Catcher

Here, we have made use of the tried and tested range backstop systems from Polythermo. The most problems with the use of electronic target systems result from deficient bullet catches, which can lead to damage or excessive contamination of the electronic target due to ricochets. Through the specialized black plastic panels made especially for us by Polythermo, this is no longer a problem. No dangerous lead dust is produced, and the sound generated in the area of the pellet strike is also considerably reduced. The projectiles are collected in the granulate container and can be disposed of very conveniently.




## Small-bore Protective Armor

Due of the greater energy of small-bore projectiles, the electronic target must be protected against direct hits. It is fastened to the provided brackets directly behind the protective armor. The front facing plate made of wood protects against shot ricochets.










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