

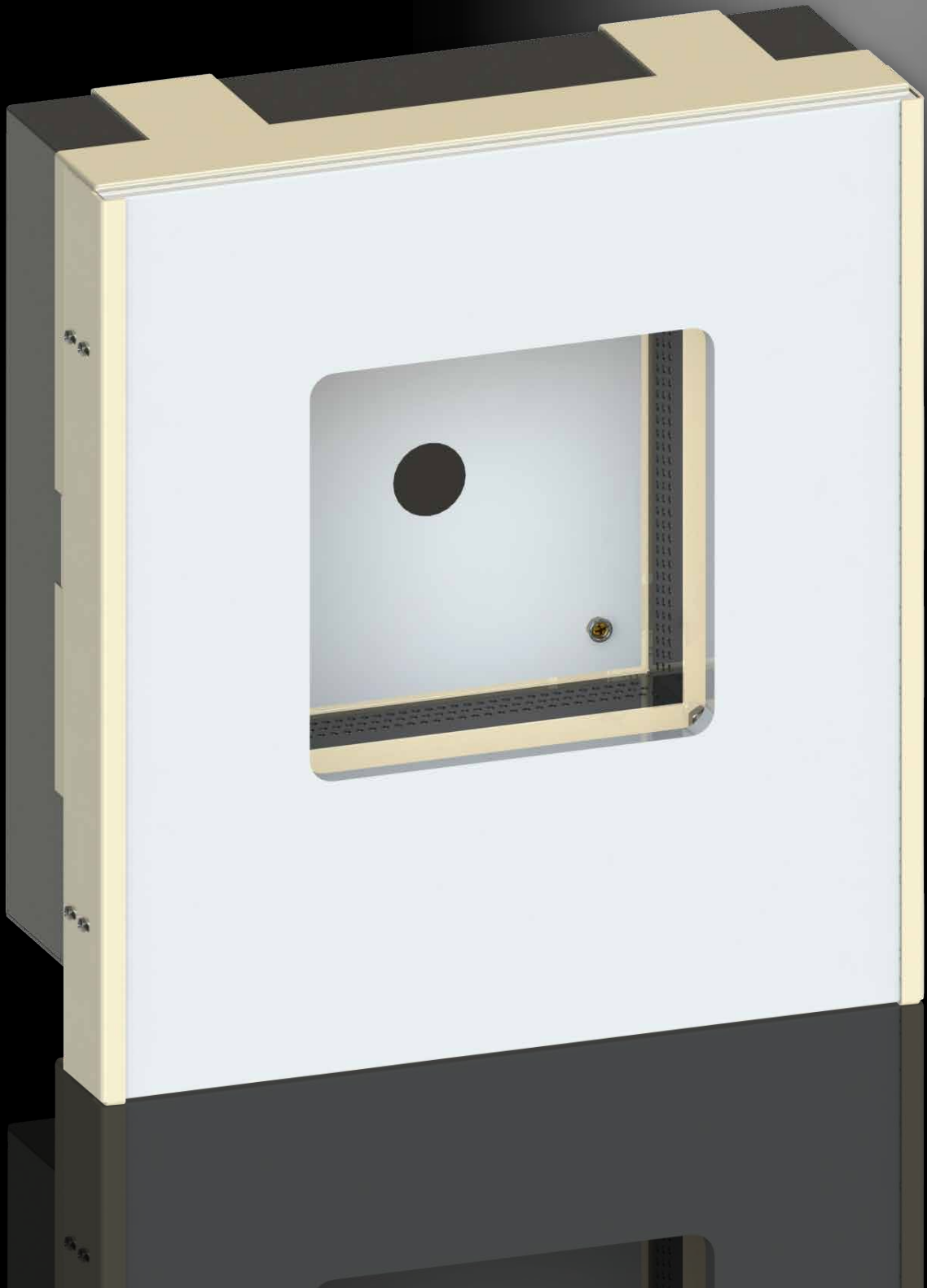
SHARP-SIGHTED
AND EXTREMELY PRECISE –

BLACK MAGIC

**NOW ISSF PHASE I AND II
CERTIFIED!**



BLACK MAGIC –
PRECISION MEETS INNOVATION.



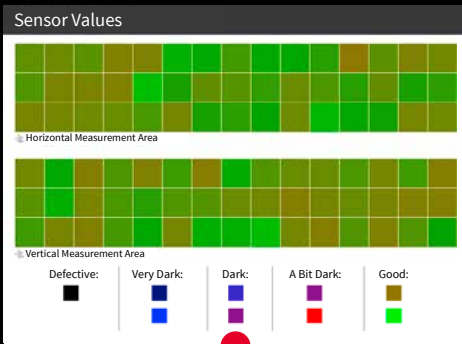
A NEW GENERATION OF MEASURING TARGETS.

- 1.** Uncompromisingly accurate, with ***crossed light barriers*** for the highest measurement precision.
- 2.** Long-life ***LED light barrier technology***, insensitive to dust.
- 3.** The new controller offers next-generation ***Ethernet (TCP / IP)*** networking with a RS232c interface.
- 4.** New robust ***moisture-proof connectors*** for data cable and power supply, connectors for lighting including red-green light system, ISSF control disc band or target disc changer.
- 5.** ***Compatible*** with the predecessor model MF4R1.
- 6.** ***Direct scanning*** of projectiles with light barriers.
- 7.** The electronic scoring target includes a ***2 year guarantee***.
- 8.** ***ISSF and DSB Certified.***

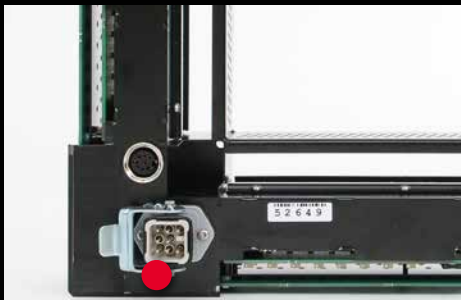


from the left: Controller with ESTA Pro

PERFECTION TO THE SMALLEST DETAIL – **BLACK MAGIC**



At any given time the **status** of the sensor arrays can be **digitally** retrieved. This maintenance function can be accessed **comfortably** with highest measuring **accuracy** on any connected terminal.



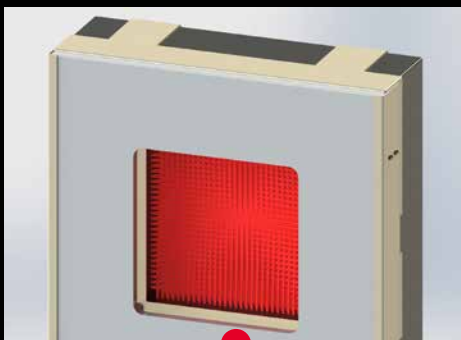
The new robust, moisture - **proof connections** allows for use on outdoor ranges.



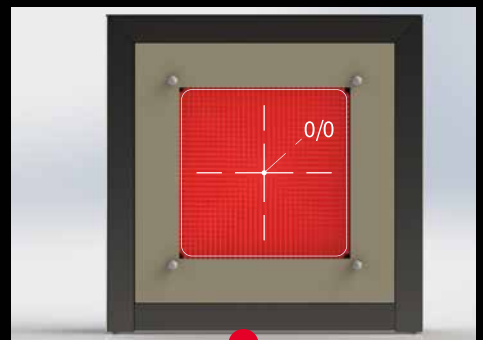
Useable for 10 m air rifle/pistol and 50 m **smallbore** rifle disciplines.



The unique LED lightbarrier technology consists of **crossed light barriers** that are **independently** switched by **each other** ensuring higher redundancy. If one part of a light barrier fails the remaining ones will **keep on working**.



192 crossed light barriers ensure the same measurement precision for the complete measuring area.



Vertical and horizontal **stainless steel** light barrier pinholes ensure that the electronic scoring target **doesn't get out of shape**. The absolute centre will always remain at the **same 0.0 spot**.

TECHNICAL INFORMATION

Power supply:	24 Volt, 0.8 A, DC	Measuring resolution:	1/100 mm or 250 MegaPixel
Protection class	IP50 (dust protection)	Measuring accuracy:	1/10 mm throughout the complete measuring field
Connection:	C146 for power and LAN	Measuring principle:	- complete contactless measuring - no consumables like rubber or paper bands
Ambient temperature:	Operation from 5 °C to +45 °C, Storage from -10 °C to +85 °C	Certificates:	- ISSF Phase I and II certified - DSB German Championships for more than 20 years
Communication:	Ethernet (TCP/IP communication)		