

SHARP-SIGHTED
AND EXTREMELY PRECISE –

BLACK MAGIC



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 ***4 year guarantee***.
8. ***ISSF and DSB Certified.***

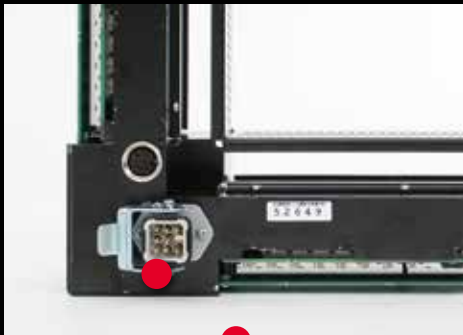


from the left: Controller with ESTA Pro

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



The new **controller** is a modern single-board PC with operating system Embedded Linux.



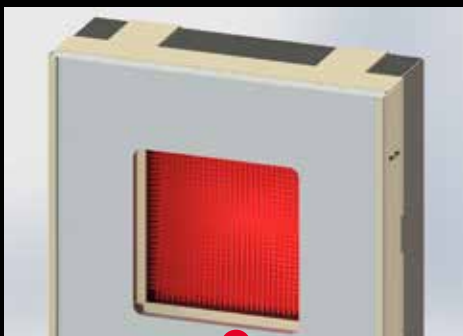
The new robust, moisture - **proof connections** allows for use on outdoor ranges.



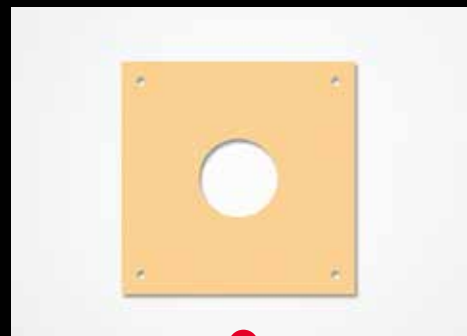
The **amphenol socket** offers the direct connection of various peripherals.



The matt black, mirror-free **cathodic coating** (Cathodic dip painting) is the perfect combination of scratch-resistant corrosion protection, quality and environmental friendliness.



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



Targets made of thin plastic coated paper.

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 2 - DSB German Championships for more than 20 years
Communication:	Ethernet (TCP/IP communication)		