



S110

**Installation overview
and components**

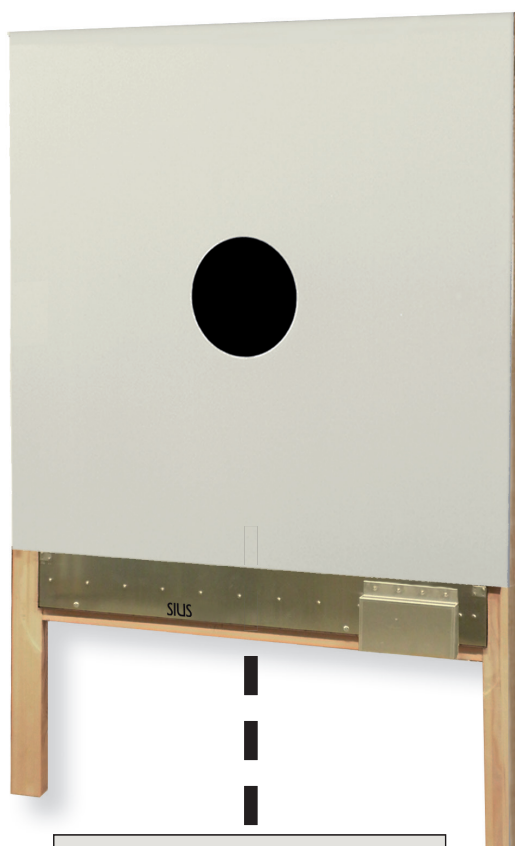
**Basic configuration of the target
for pistols, small bore/big bore rifles**

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Standard configuration

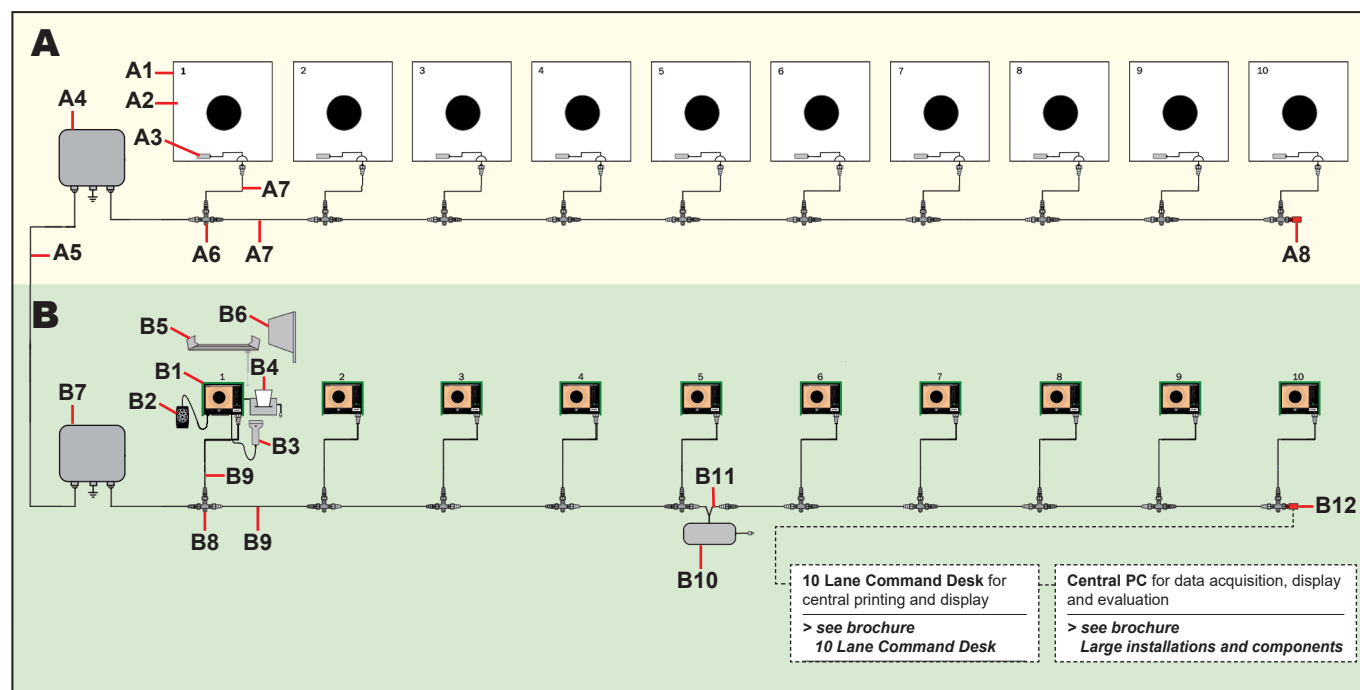
Target S110 with basic equipment M95.



Small bore/big bore rifle and pistol installation 50m/100m/300m

Installation overview S110 (Example: installation 100m / all distances > page 4–5)

The installation is divided into 2 article groups: article group target line (A) and article group firing line (B). Cables and power supply (B) is designed for 10 lines at the most. In addition, power supply cables are required (connection cable: device to country specific plug).

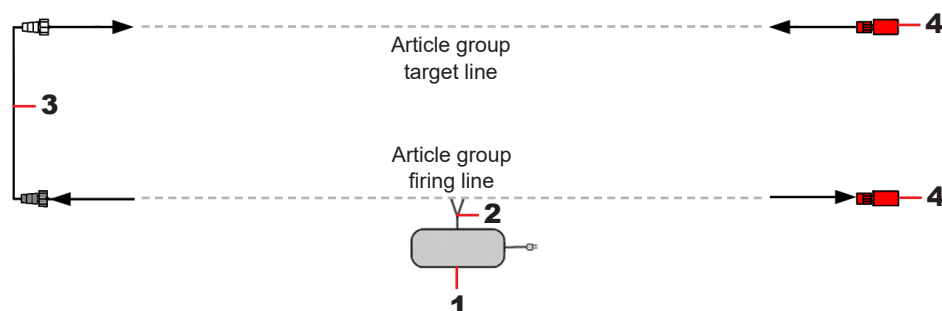


Pos.	Article no.	Pcs.	Description
A Article group target line			
A1	S110-LON	1	Main target S110 with LON measurement bar
A2	S100ANOR7	1	A front frame with bulls eye Ø 24cm
A3	LMEB001V2	1	Print LON measurement electronics for S110
A4	VK-LTW2	1	Distribution box with lightning protection, 2x LTW-Kabel
	VK-LTW2V2	1	Distribution box without lightning protection, 2x LTW-Kabel
A5	KV020-120	1	Cable firing point – target 120m (for 100m installation)
A6	KL001-T	1	T-Adapter fem/fem/male LTW IP67
A7	KL001-2.0	1	Cable LTW male–female 2.0m
A8	KL001-R	1	Terminating resistor, red, male LTW IP67
B Article group firing point			
B1	M95V0	1	Control/display unit 10", size (WxHxD): 26,8x23,4 x 18,2cm (ohne Stativ), Gewicht: 4kg
B2	RC211V1	1	Remote control, size (WxHxD): 118x76x25mm, weight: 350g
B3	AAG133-80SX-USB	1	Barcode scanner USB, incl. holder and USB cable, size (WxHxD): 90x170x80mm, weight: 245g
B4	D112-USB-N	1	Thermal printer 110/220V, incl. power supply and USB cable, size (BxHxT): 150x65x130mm, weight: 1 kg
B5	C88RV2	1	Shot sensor for big bore rifles (option) > page 8
B6	UEM88	1	Crosstalk separator 110x90x4cm (option); all variants > page 9
	UEBH88	1	Small ground plate for crosstalk separators (option); all variants > page 9
B7	VK-LTW2	1	Distribution box with lightning protection, 2x LTW-Kabel
	VK-LTW2V2	1	Distribution box without lightning protection, 2x LTW-Kabel
B8	KL001-T	1	T-Adapter fem/fem/male LTW IP67
B9	KL001-2.0	1	Cable LTW male–female 2.0m
B10	NT211	1	Power supply for 10 lines 225W with LTW 230V
B11	KL013	1	Y cable for NT211
B12	KL001-R	1	Terminating resistor, red, male LTW IP67
	Reference		Country-specific power supply cable > AA1**

Installation 50m – cables and power supply

At target side no individual power supply is required for distances up to 100m. The power supply is placed at the firing line, in the middle of the segment with 10 lines (between line 5+6).

For the 50m distance the four-strand shielded cable KL001-65.0 is used for bus and power supply.

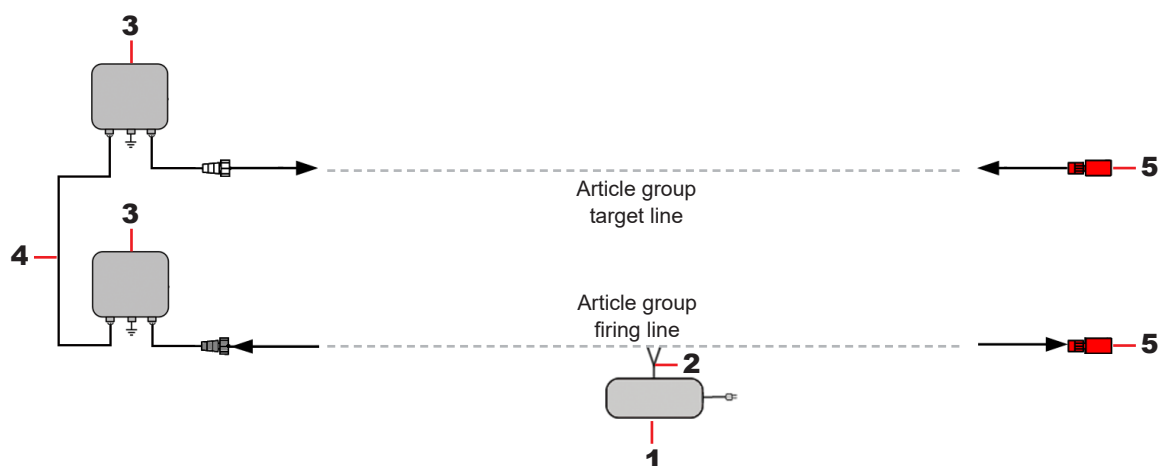


Pos.	Article no.	Pcs.	Description
1	NT211	1	Power supply for 10 lines 225W with LTW 230V
2	KL013	1	Y cable for NT211
3	KL001-65.0	1	Cable LTW male-fem 65m (for 50m distance)
4	KL001-R	2	Terminating resistor, red, male LTW IP67
	Reference		Country-specific power supply cable > AA1**

Installation 100m – cables and power supply

For a cable length above 65m, the four-strand shielded cable KV020-120 is needed.

At target side no individual power supply is required. The power supply is placed at the firing line, in the middle of the segment with 10 lines (between line 5+6). Additionally at the firing and the target line the distribution box VK-LTW2 is needed.

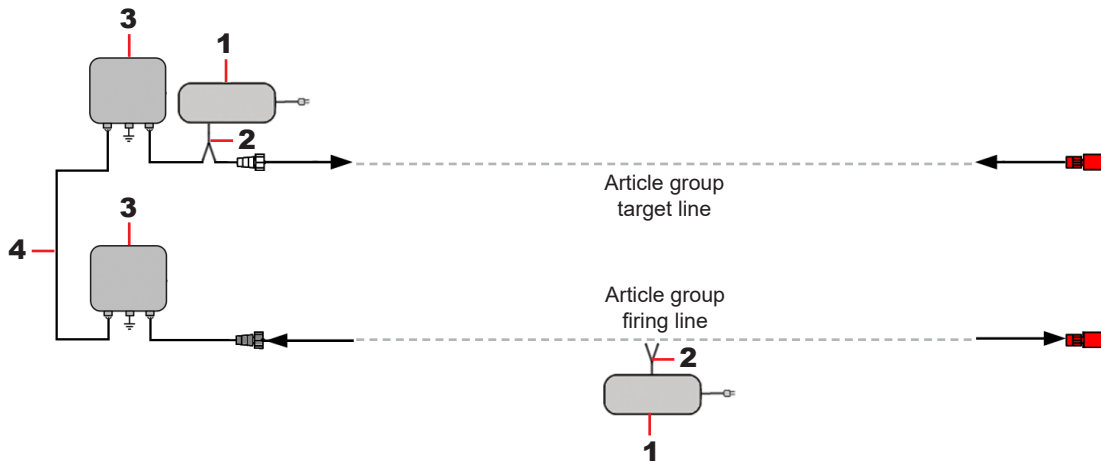


Pos.	Article no.	Pcs.	Description
1	NT211	1	Power supply for 10 lines 225W with LTW 230V
2	KL013	1	Y cable for NT211
3	VK-LTW2	1	Distribution box with lightning protection, 2x cable LTW / light signal input
	VK-LTW2V2	1	Distribution box without lightning protection, 2x cable LTW
4	KV020-120	1	Cable firing point – target, 120m, 2x2x0,75mm ² shielded
5	KL001-R	2	Terminating resistor, red, male LTW IP67
	Reference		Country-specific power supply cable > AA1**

Installation 300m – cables and power supply

For a length above 100m, the two-strand shielded cable KV021-L is needed (L = any length [m] on request). Only the LON bus is connected. The cable is also suitable for laying in the ground.

The power supply is placed at the firing line, in the middle of the segment with 10 lines (between line 5+6). Scheibenseitig wird ein zusätzliches Netzteil benötigt.



Pos.	Artikel-Nr.	Stk.	Bezeichnung
1	NT211	2	Power supply for 10 lines 225W with LTW 230V
2	KL013	1	Y cable for NT211
3	VK-LTW2	1	Distribution box with lightning protection, 2x cable LTW / light signal input
	VK-LTW2V2	1	Distribution box without lightning protection, 2x cable LTW
4*	KV021-L	1	Cable firing point–target (for 300m distance = approximately 330m), 2x0,5mm ² shielded
5	KL001-R	2	Terminating resistor, red, male LTW IP67
	Reference		Country-specific power supply cable > AA1**

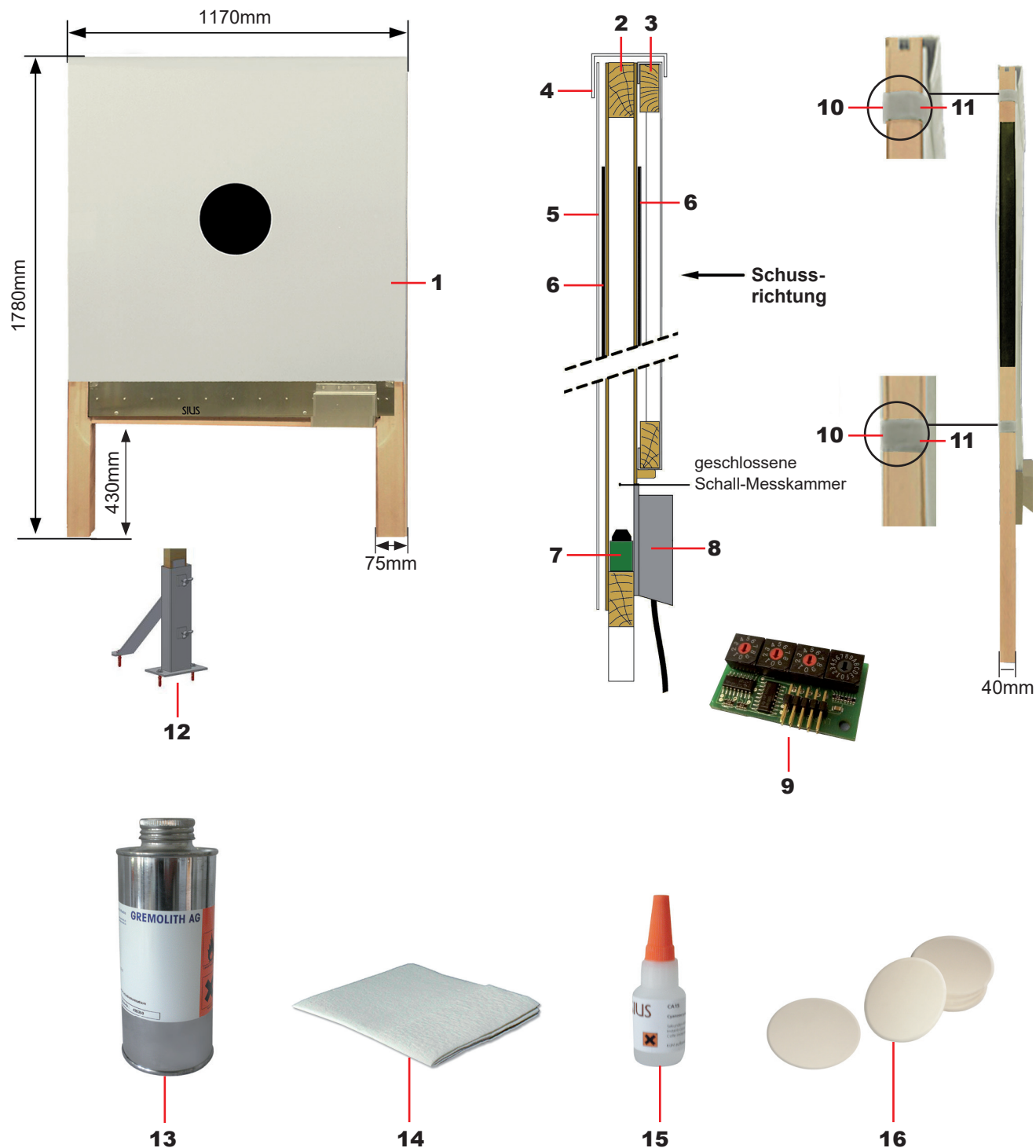
*L = length (m) on request

Target S110

The measurement system for this target is fixed at the bottom in the protected region. This ensures a high degree of operating safety and prolongs the life of the system. There are no measuring elements in the shooting field. It is suitable for pistols and small bore/big bore rifles.

CAUTION

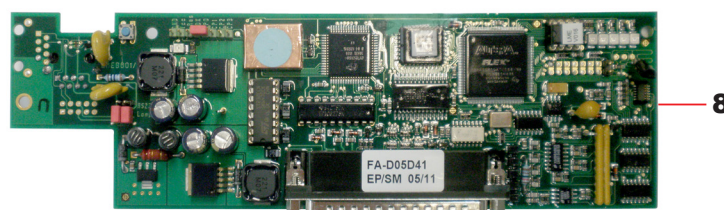
The LON measurement electronics and the front frame must be ordered separately.



Pos.	Article no.	Description
Target S110		
1	S110-LON	Main target S110 with LON measurement bar, without print LON measurement electronics and front frame Size (WxHxD): 1170x1780x115mm, weight: 27.2 kg, Consumption: 7.6W, detection surface (WxH) 1000x1050mm.
Optional accessory and spare parts		
2	S110H	Main target S110 without LON measurement bar, print LON measurement electronics and front frame
3	Reference	Various front frames and target front frames (see page 9–11)
4	S100HA009	Rain protection
5	S100AA011	Backing target
6	S110HA006	Endless rubber band The endless rubber band is pulled up if required, e.g. when the centre is shot out in a way that the target covering can no longer form a closed chamber.
	AMW017	Mounting aid for endless rubber band, beech stick, all edges rounded (2 pieces needed)
7	MS100-LONV0	LON measurement bar 1m
8	Verweis	Print LON measurement electronics (see below)
9	LNRB001	Print Lane Number Assignement
10	AMA021/10	Velcro strip – loops, 30x90mm, main frame
11	AMA023/16	Velcro strip – hooks, 30x160mm, front frame
12	SHS11	Target holder (feet), galvanised steel, with strut, set with 2 pieces, incl. screws and dowels
Repair material for target covering Larger holes in the target covering arise from ricochets for example. They can cause incorrect measurements and must therefore be closed up. Repair material is available for this purpose.		
13	URE200ACT	Acetone 200 ml
14	URE-ELIX-CLEAN	Cleaning cloth
15	UK20CA15G	Special glue CA15G 20g
16	USX10QF	Ricochet repair patch (set of 10)

LON measurement electronics for S110

The LON measurement electronics evaluates the signals transmitted by the microphone and sends the information over the LON network to the control unit CU941. The measurement electronics are inserted in the lower area of the target. The correct variant must be selected depending on the type of weapon (caliber) and ammunition.



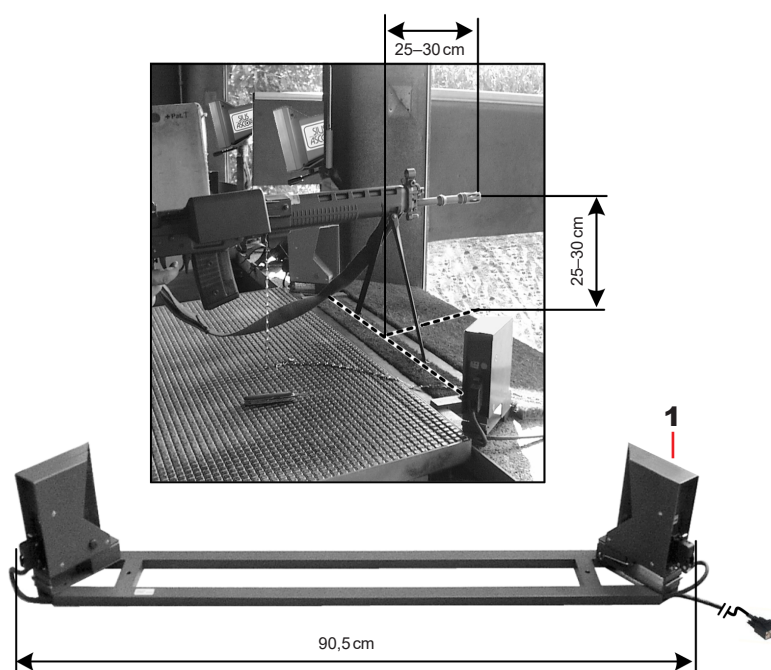
Pos.	Article no.	Description
LON measurement electronics S110		
8	LMEB001V2	Print LON measurement electronics S110 small bore rifle/big bore pistol
8	LMEB001V4	Print LON measurement electronics S110 small bore/big bore rifle

Shot sensor for big bore rifles

The shot sensor differentiates the shots of the shooter's lane from shots from other lanes (cross shots, target errors). The corresponding display is shown on the monitor.

The shot sensor can only be used for big bore rifles with muzzle flash. It is plugged directly into the control/display unit M95.

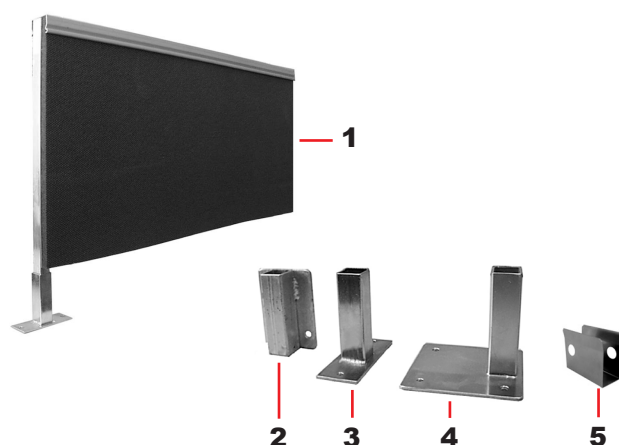
The **distance between weapon muzzle and sensors** is especially important to ensure the best performance of the shot sensor. Sensors should not be exposed to direct or intense sunlight.



Pos.	Article no.	Description
Shot sensor for big bore rifles		
1	C88RV2	Shot sensor, cable on right side Size (WxHxD): 905x190x150mm, weight1: 3.2 kg

Crosstalk separators for the shot sensor

We recommend the installation of crosstalk separators between the individual lanes for firing points equipped with shot sensors. These prevent the acoustic and optical triggering of shots onto neighbouring lanes. Three different sizes of crosstalk separators are available. The big **ground plate** (Pos. 4) should be used for fixing the large separator (Pos. 1.3). For the other separators all plates can be used.



Example of use

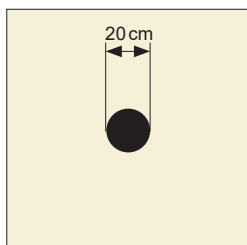


Pos.	Article no.	Description
Crosstalk separators for the shot sensor		
1.1	UES88	Crosstalk separator Size (WxHxD): 77x50x2cm, weight: 1.55 kg
1.2	UES88V1	Crosstalk separator Size (WxHxD): 85x50x2cm, weight: 1.7 kg
2	UEWH88	Wallmounting plate for crosstalk separator
3	UEBH88	Small ground plate for crosstalk separator
4	UEHH88A001	Big ground plate for crosstalk separators
5	UES88A007	Connection bracket for crosstalk panels

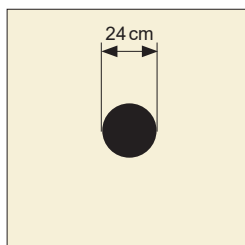
Front frame with circular target pictures (A targets)

For circular target pictures (A targets), front frames are used which are covered with top skin. These front frames are mounted on the main target with Velcro fastener.

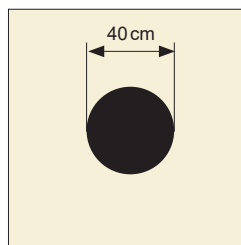
1 Front frame
bulls eye Ø 20cm



2 Front frame
bulls eye Ø 24cm



3 Front frame
bulls eye Ø 40cm

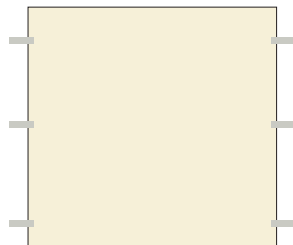


Pos.	Article no.	Description
Front frames with circular target pictures		
1	S100A	Front frame S100, bulls eye Ø 20cm
2	S100ANOR-7	Front frame S100, bulls eye Ø 24cm
3	S100ANOR-8	Front frame S100, bulls eye Ø 40cm

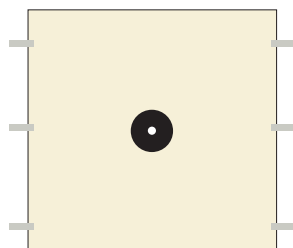
Target front masks with hunting pictures

To mount the target front masks with DJV hunting pictures and the center patch of the calibrating target for telescoping sight, the basic multi wall panel S110AA022 must be used. It will be mounted on the main target with velcro fasteners.

4 Basic multi wall panel for hunting pictures



5 Calibrating target for telescopic sight

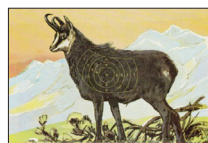


5.1 Center patch of calibrating target for telescopic sights



The hunting pictures chamois, roebuck, fox and wild boar (3 versions) must be ordered directly under: German Hunting Federation DJV or Kuert Druck AG. The adhesive hunting pictures can be mounted on the basic multi wall panel according to manual «B072 S110_Jagdbilder_Montage_de/en».

Chamois DJV4



Roebuck DJV1



Fox DJV3



Wild boar DJV2



Wild boar DJV5



Wild boar DJV7



Ordering hunting pictures:

- German Hunting Federation DJV > www.jagdverband.de
- Kuert Druck AG > www.kuert.ch (inside Switzerland only)

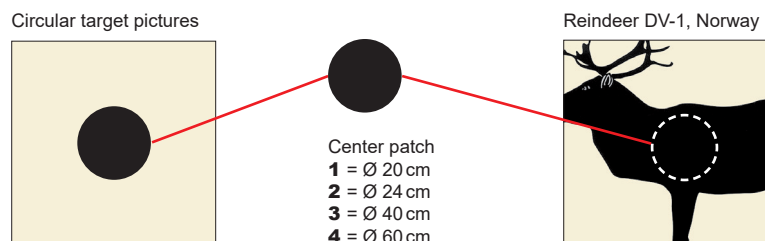
Even the single center patch for the calibration of telescopic sights is available. It is glued on the basic multi wall panel according to manual «B072 S110_Jagdbilder_Montage_de/en» or directly on a A-target front frame (Ø 20/24 cm).

Pos.	Article no.	Description
Basic multi wall panel for hunting pictures and calibrating target for telescopic sight		
4	S110AA022	Basic multi wall panel for hunting pictures, 117x113,5cm
5	S110AA036	Multi wall panel, 117x113,5cm, with front mask of calibrating target Ø 20cm
5.1	S150JVZA001	Center patch of calibrating target Ø 20cm on top foil, 30x30cm

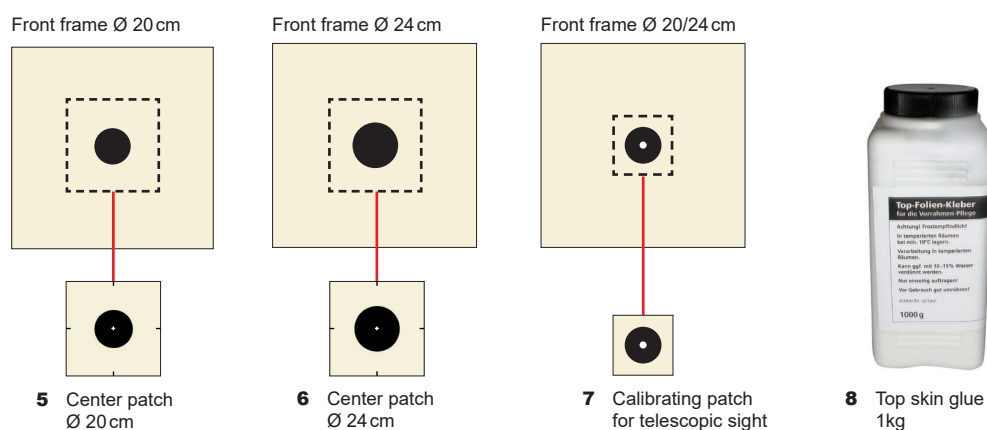
Consumable and replacement supplies for target front masks

The circular center patches Ø 20 cm, 24 cm, 40 cm and 60 cm are used for repairing target centers of the A targets and the black hunting target pictures without ring division (elk DV-21, reindeer DV-1).

Examples of use:



For excessively worn centers, target patches of quadratic top skin are available.



Pos.	Article no.	Description
Consumable and replacement supplies for target front masks		
1	S150AA015	Center patch, PVC, Ø 20 cm
2	S150AA006	Center patch, PVC, Ø 24 cm
3	S150AA008	Center patch, PVC, Ø 40 cm
4	S150AA009	Center patch, PVC, Ø 60 cm
5	S100D001	Center patch PVC, Ø 20 cm, on top skin 50x50cm, with cross line and marker
6	S100AA019	Center patch PVC, Ø 24 cm, on top skin 50x50cm, with cross line and marker
7	S150JVZA001	Calibrating patch PVC, Ø 20 cm, on top skin 30x30cm
8	UK1PVC	Top skin glue 1 kg



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