



S110

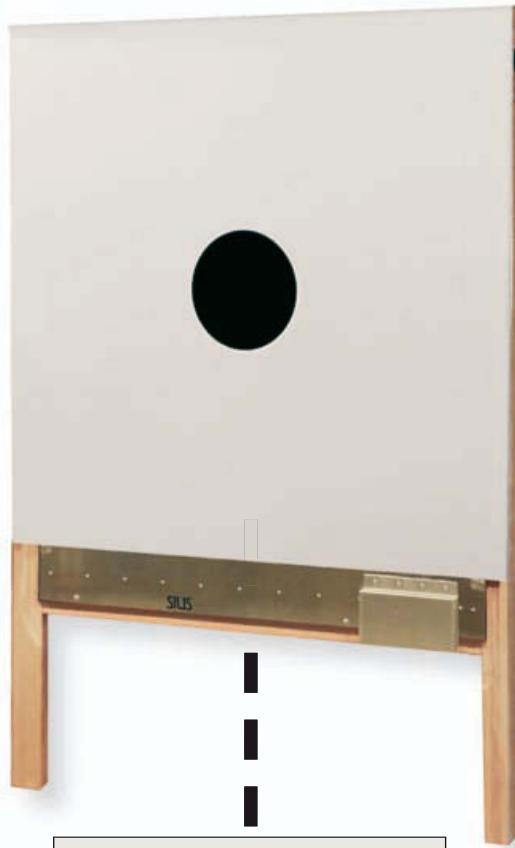
**Installation overview
and components**

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

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Standard configuration

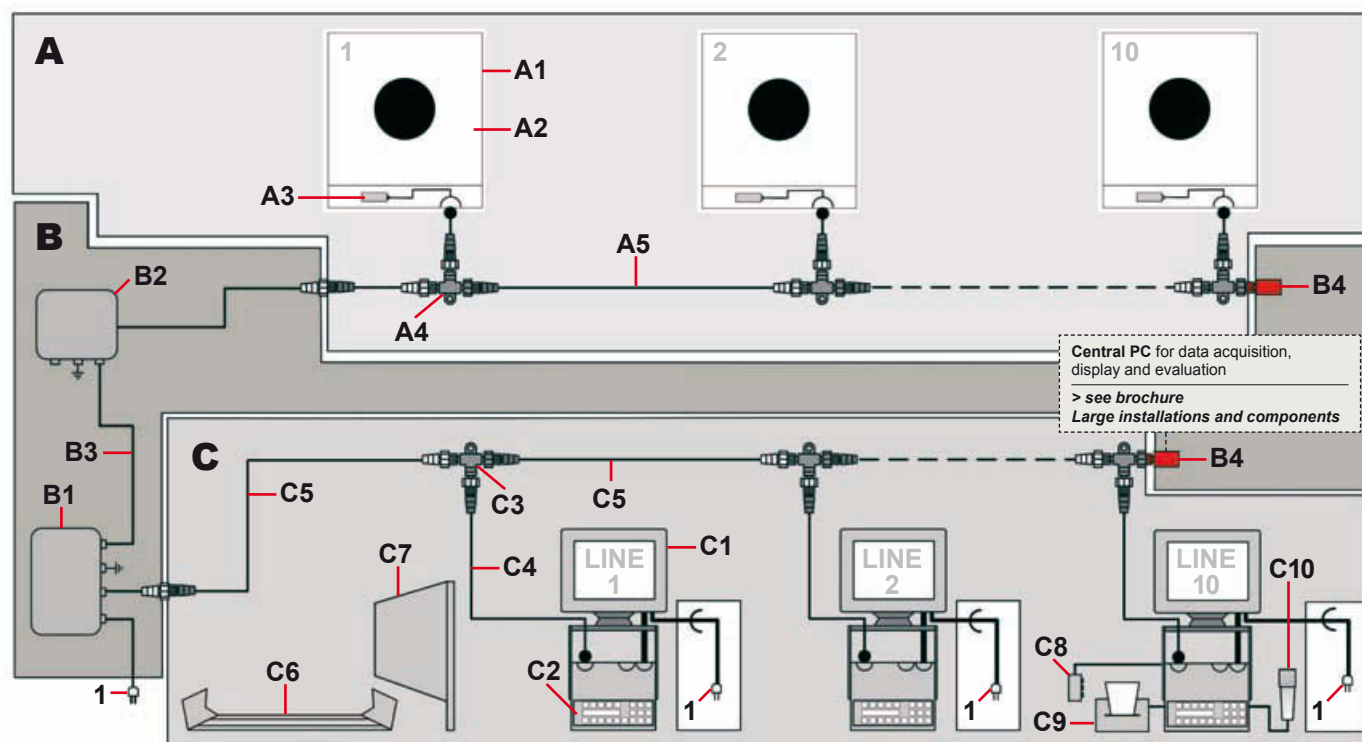
Target S110 with basic equipment SA941.



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 3 article groups: article group target line (A), article group for cables and power supply (B) and article group firing line (C). The article group for 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. 1).

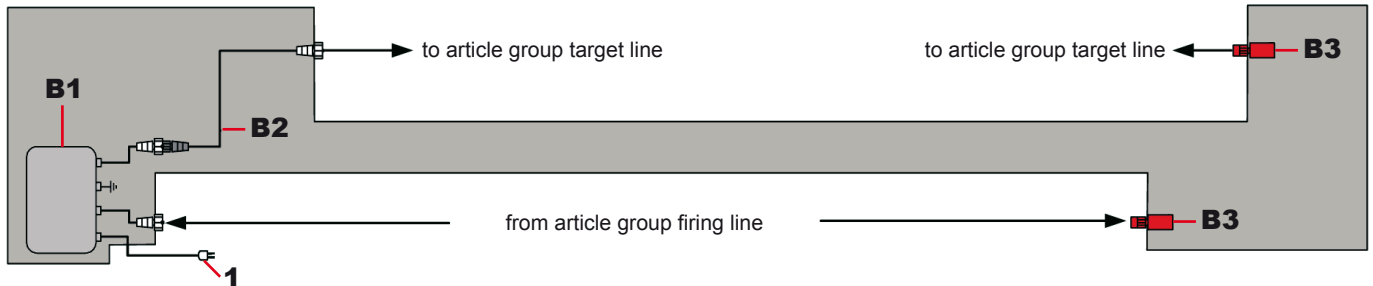


Pos.	Article no.	Pcs.	Description
A Article group target line			
A1	S110-LON	1	Main target S110 with LON measurement bar
A2	S100ANOR7	1	A front frame with bulls eye Ø 24cm
A3	LMEB001V2	1	Print LON measurement electronics for S110
A4	KL001-T	1	T-Adapter fem/fem/male LTW IP67
A5	KL001-2.0	1	Cable LTW male-female 2.0m
B Article group cables and power supply			
B1	NT209V3	1	Power supply for 10 lines 225W with LTW 230V
B2	VK-LTW2	1	Distribution box 2 LTW/light signal (for 100m installation) / all distances > page 4–5
B3	KV020-120	1	Cable firing point – target 120m (for 100m installation) / all distances > page 4–5
B4	KL001-R	2	Terminating resistor, red, male LTW IP67
C Article group firing point			
C1	M941	1	Monitor TFT 10.4" (26cm)
C2	CU941-ISSF	1	Control unit, with software for ISSF competitions (ISSF- approval phase 1, 2 and 3)
C3	KL001-T	1	T-Adapter fem/fem/male LTW IP67
C4	KL003-2.0	1	Cable LTW male-RJ45 2.0m
C5	KL001-2.0	1	Cable LTW male-fem 2.0m
C6	C88RV1	1	Shot sensor for big bore rifles (option) > page 8
C7	UEM88	1	Crosstalk separator 110x90x4cm (option); all variants > page 9
	UEBH88	1	Small ground plate for crosstalk separators (option); all variants > page 9
C8	RC941	1	Remote control RC941 (option)
C9	D112-N	1	Thermal printer incl. power supply (option)
C10	AAG133	1	Barcode scanner (option)
1	Reference		Country-specific power supply cable > page 5

Installation 50m – cables and power supply

No independent power supply is required for distances up to 100m.

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

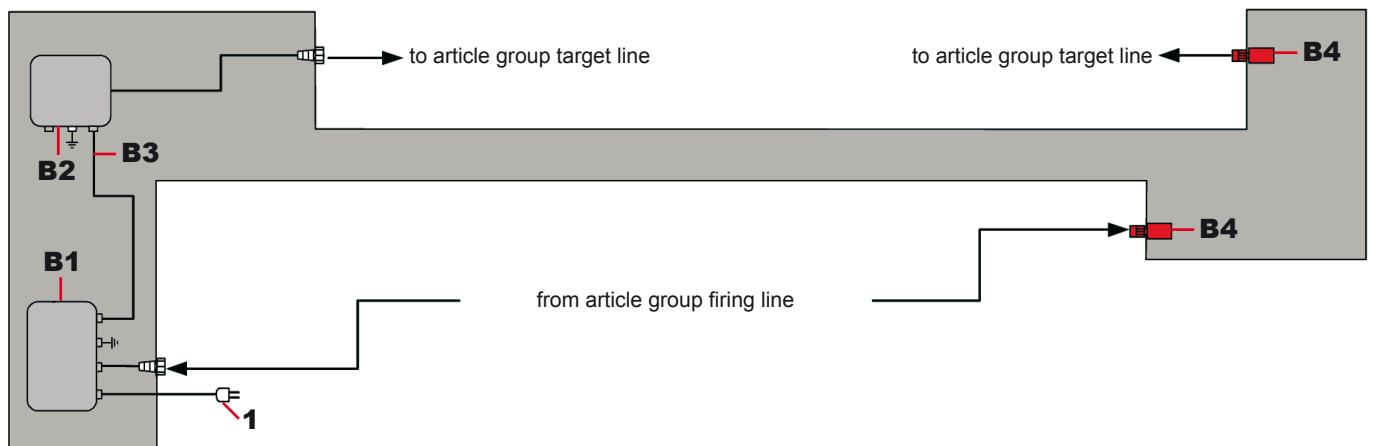


Pos.	Article no.	Pcs.	Description
B	Article group cables and power supply		
B1	NT209V3	1	Power supply for 10 lines 225W with LTW 230V
B2	KL001-65.0	1	Cable LTW male-fem 65m (for 50m distance)
B3	KL001-R	2	Terminating resistor, red, male LTW IP67
1	Reference		Country-specific power supply cable > page 5

Installation 100m – cables and power supply

If a cable is required that exceeds the 65m in length, then the four-strand shielded cable KV020-L is used (L = any length [m] on request).

At target side no separate power supply is required, but additionally the distributor box VK-LTW2 is needed.

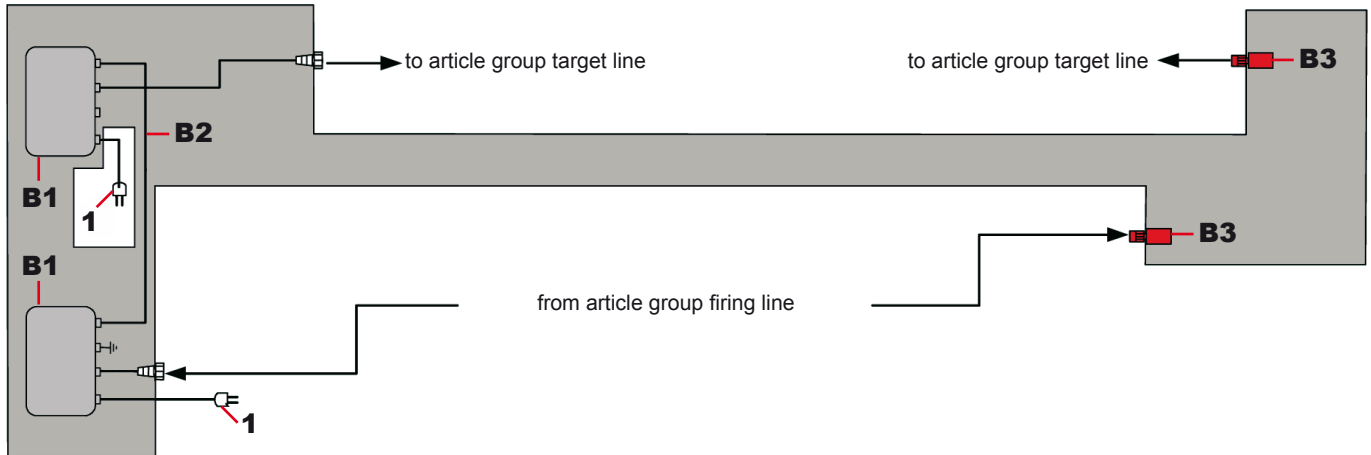


Pos.	Article no.	Pcs.	Description
B	Article group cables and power supply		
B1	NT209V3	1	Power supply for 10 lines 225W with LTW 230V
B2	VK-LTW2	1	Distributor box 2 LTW / light signals
B3	KV020-120	1	Cable firing point–target, 120m (for 100m distance)
B4	KL001-R	2	Terminating resistor, red, male LTW IP67
1	Reference		Country-specific power supply cable > page 5

Installation 300m – cables and power supply

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

At target side a separate power supply NT209V3 is needed.



Pos.	Article no.	Pcs.	Description
B	Article group cables and power supply		
B1	NT209V3	2	Power supply for 10 lines 225W with LTW 230V
B2*	KV021-L	1	Cable firing point–target (for 300m distance = approximately 330m)
B3	KL001-R	2	Terminating resistor, red, male LTW IP67
1	Verweis		Country-specific power supply cable > page 5

*L = length (m) on request

Country specific power supply cables

The connection between device and socket is achieved with the use of country specific power supply cables. This is provided with the device coupling on one side and with a country specific plug on the other side.



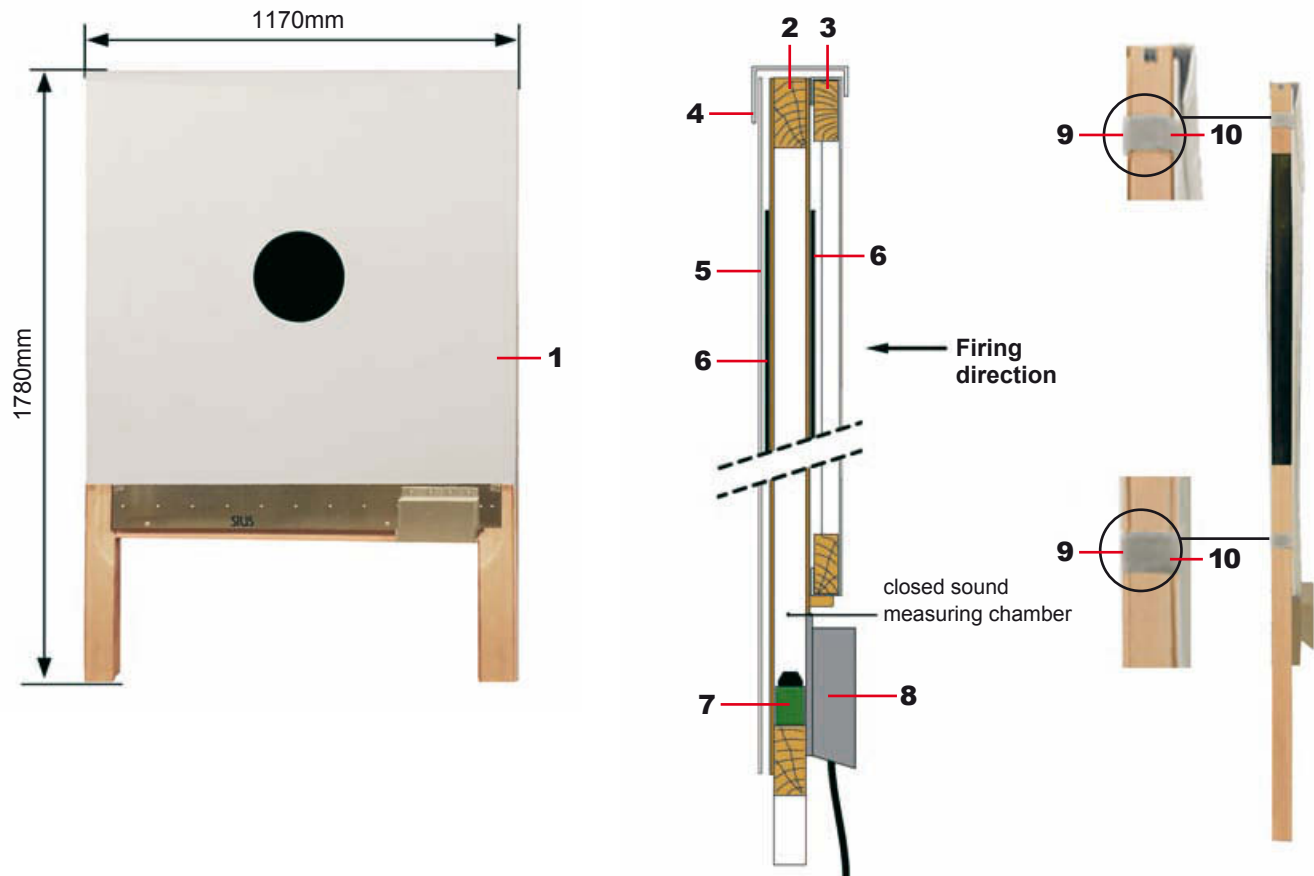
Pos.	Artikel-Nr.	Bezeichnung
1	AA101	Power supply cable with GB plug, 2m
2	AA102	Power supply cable with USA plug, 2m
3	AA109	Power supply cable with CH plug, 2m
4	AA110	Power supply cable with Euro plug, 2m
5	AA126	Power supply cable with AUS plug, 2m

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.



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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 10–11)
4	S100HA009	Rain protection
5	S100AA011	Backing target
6	S100HA006	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.
7	MS100-LON	LON measurement bar 1m
8	Verweis	Print LON measurement electronics (see below)
9	AMA021/9	Fixed velour fleece strip 9cm, main frame
10	AMA023/16	Fixed velour bubble type strip 16cm, front frame
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.		
11	URE200ACT	Acetone 200 ml
12	URE-ELIX-CLEAN	Cleaning cloth
13	UK20CA15G	Special glue CA15G 20g
14	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.



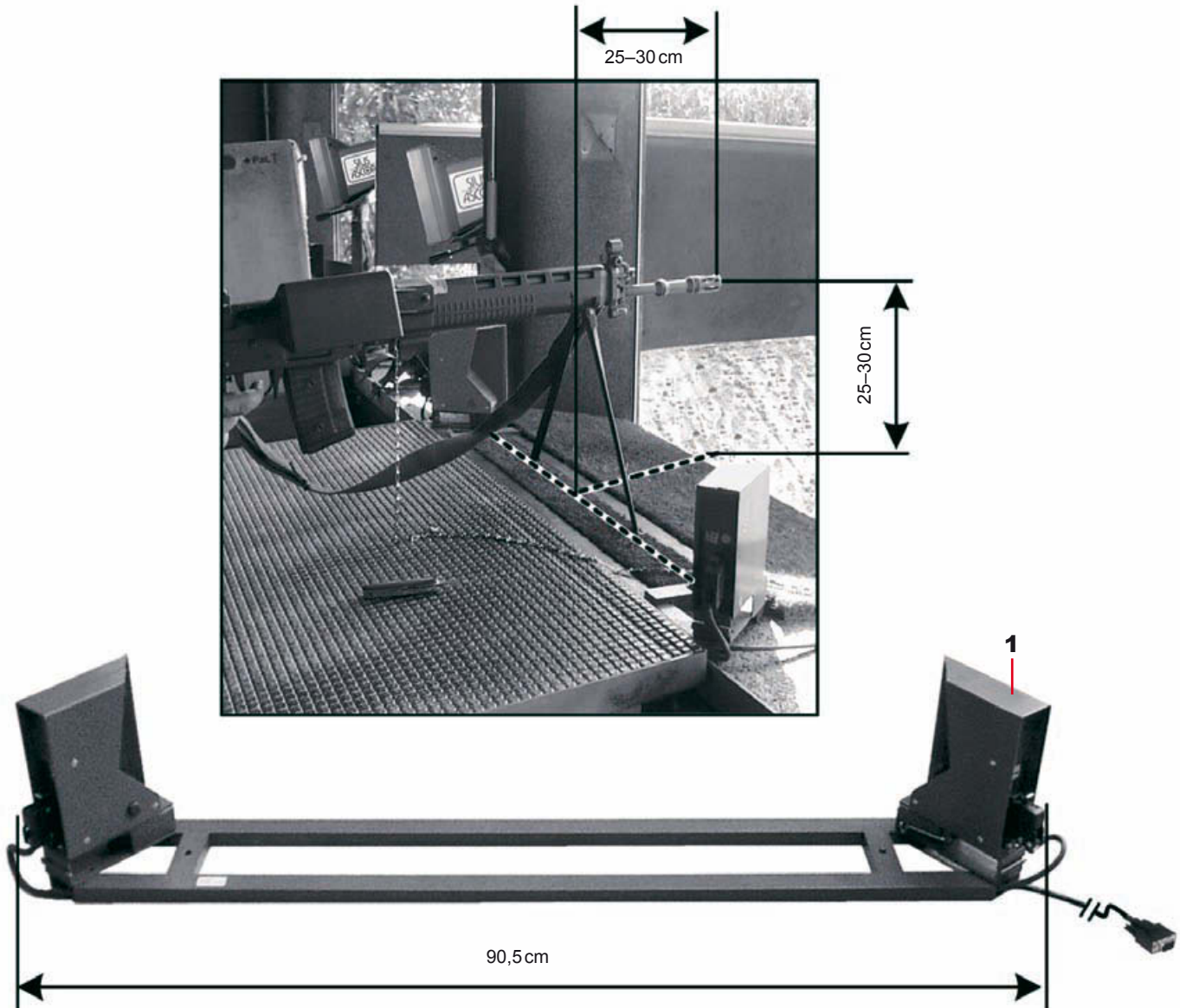
Pos.	Article no.	Description
LON measurement electronics S110		
8	LMEB001V2	Print LON measurement electronics S110 small bore rifle/big bore pistol
8	LMEB001V4	Print LON measurement electronics S110 small bore/big bore rifle

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 unit CU941 or, for separate setting up of the monitor and control unit, into multiple connector MD921.

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



Pos.	Article no.	Description
		Shot sensor for big bore rifles
1	C88RV1	Shot sensor, cable on right side, D-sub plug 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

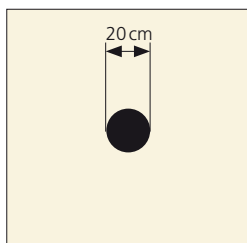


Pos.	Article no.	Description
Crosstalk separators for the shot sensor		
1.1	UES88	Crosstalk separator Size (WxHxD): 77x50x2cm, weight: 1.55 kg
1.2	UES88V1	Crosstalk separator Size (WxHxD): 85x50x2cm, weight: 1.7 kg
2	UEWH88	Wallmounting plate for crosstalk separator
3	UEBH88	Small ground plate for crosstalk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

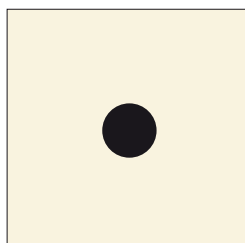
Front frame with circular target pictures (A targets)

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

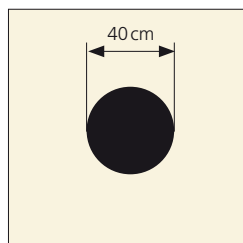
1 Front frame
bulls eye Ø 20cm



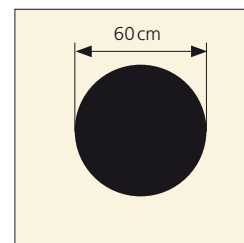
2 Front frame
bulls eye Ø 24cm



3 Front frame
bulls eye Ø 40cm



4 Front frame
bulls eye Ø 60cm



Pos.	Article no.	Description
Front frames with circular target pictures		
1	S100A	Front frame S100, bulls eye Ø 20cm
2	S100ANOR7	Front frame S100, bulls eye Ø 24cm
3	S100ANOR8	Front frame S100, bulls eye Ø 40cm
4	S100ANOR9	Front frame S100, bulls eye Ø 60cm

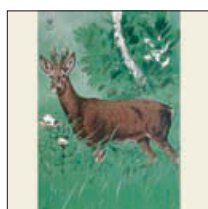
Target front masks with hunting pictures

Hunting targets can be printed on the polyethylene surface of the target front mask if desired. The hunting targets chamois, roebuck, fox and wild boar can also be used on the target S310 with the aid of an adaptor plate. The target front masks are mounted on the main target with Velcro fasteners.

1 Chamois DJV4



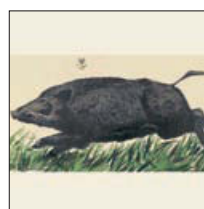
2 Roebuck DJV1



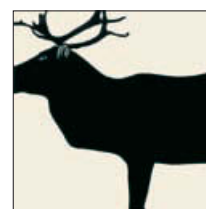
3 Fox DJV3



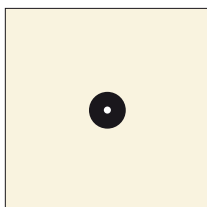
4 Wild boar DJV5



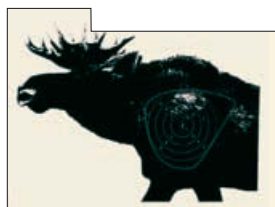
5 Reindeer DV-1, Norway



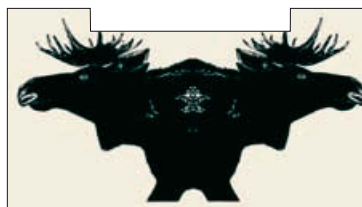
6 Calibrating target TS



7 Single elk, left



8 Elk DV-21, Norway

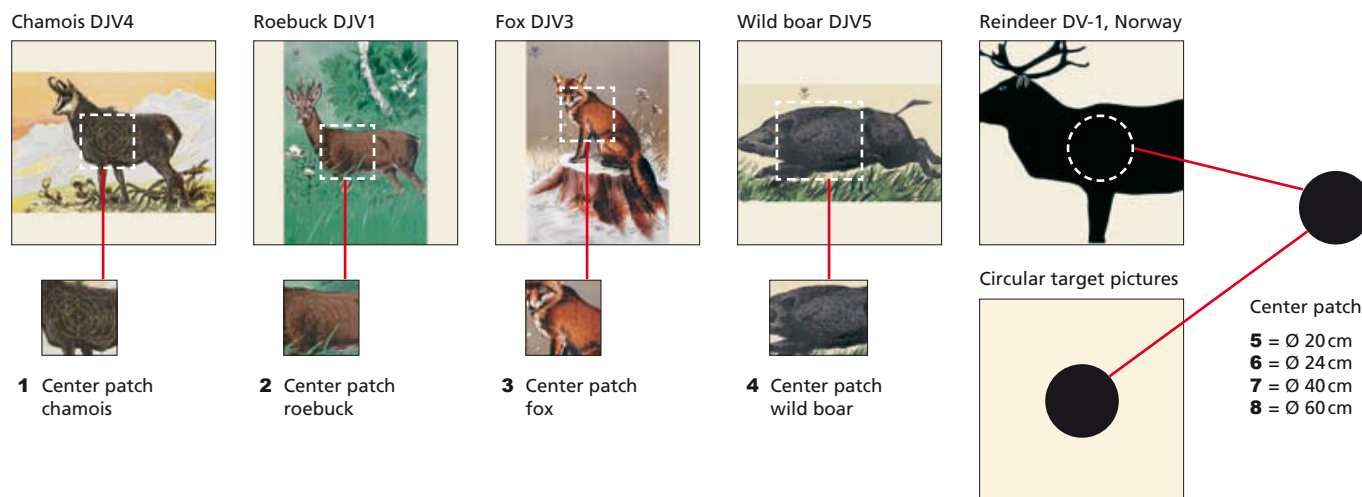


Pos.	Article no.	Description
Target front masks with hunting pictures		
1	S110AA007V1	Target front mask, chamois DJV4, with ring divisions
2	S110AA008V1	Target front mask, roebuck DJV1, with ring divisions
3	S110AA009V1	Target front mask, fox, DJV3, with ring divisions
4	S110AA010V1	Target front mask, wild boar left DJV5, with ring divisions
5	S110AA012	Target front mask, Reindeer DV-1, Norway
6	S110AA016	Calibrating target for telescopic sight
7	S110AA018	Target front mask, single elk, left
8	S110AA013	Target front mask, elk DV-21, Norway

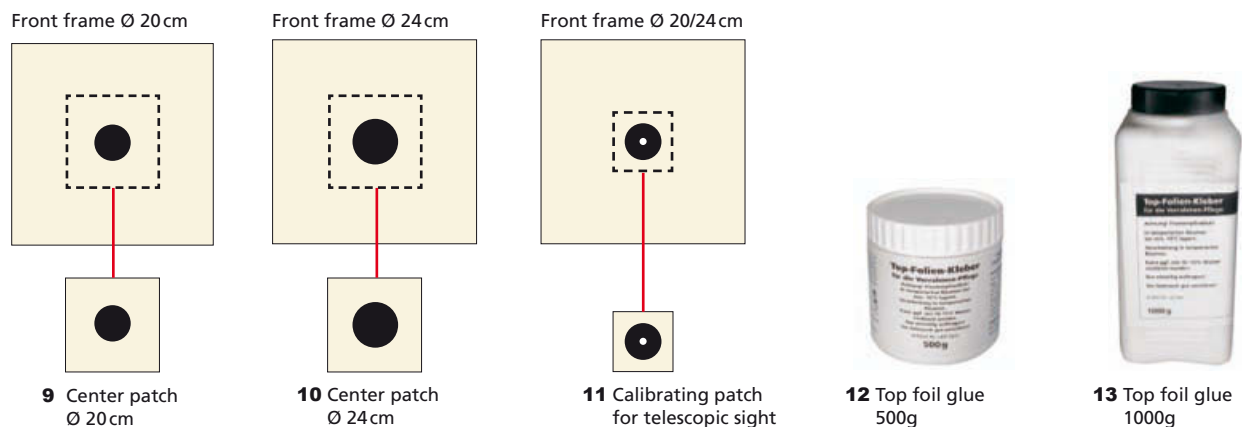
Consumable and replacement supplies for target front masks

Worn-out target centers are covered with center patches. Center patches with ring divisions are used for DJV hunting pictures. 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 foil 50x50cm are available. A special center patch 30x30cm is available for the calibration of the telescopic sights. It is usually glued on an A front frame.



Pos.	Article no.	Description
Consumable and replacement supplies for target front masks		
1	S150JVFA005	Center patch, fox, with ring divisions, 30x30cm
2	S150JVBA007	Center patch, roebuck, with ring divisions, 30x30cm
3	S150JVKA011	Center patch, wild boar left, with ring divisions, contoured
4	S150JVGA007	Center patch, chamois, with ring divisions, 30x30cm
5	S150AA015	Center patch, PVC, Ø 20 cm
6	S100AA015	Center patch, PVC, Ø 24 cm
7	S150AA008	Center patch, PVC, Ø 40 cm
8	S150AA009	Center patch, PVC, Ø 60 cm
9	S100D001	Center patch on top foil, Ø 20 cm, 50x50cm
10	S100AA019	Center patch on top foil, Ø 24 cm, 50x50cm
11	S150JVZA001	Calibrating patch on top foil, Ø 20 cm, 30x30cm
12	UKO.5PVC	Top foil glue 0,5 kg
13	UK1PVC	Top foil glue 1 kg



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