# 4K187

## user area:

**Rifle 10m, 15m, 50m**
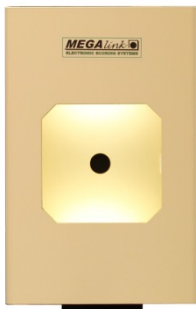
**Pistol 10m**

**Running target 10m**



## ISSF approved for 10m

Phase 1 og 2

# MEGAlink

## 4K187



## The smallest target for 10m-50m

4K187 is a compact size target unit designed for 10m air weapons and 15m small bore ranges. The target contains all the powerful functions in the ML2000 system

The target unit is protected with an aluminum plate for air, and steel plate for small bore ammunition. For small bore we recommend to add a wooden protection plate in front to avoid ricochets on short distance shooting (often a national regulatory requirement). For 50m use, a larger aiming plate in polyethylene can be mounted.

The target can be mounted directly on a wall with the key holes on the back of the target. More often the unit is mounted on a stand together with a pellet trap. The unit is also well suited for our target lift for short range match practice.

## Target lift:

Target Lift comes complete and is very easy to assemble:
- Target lift can be mounted in the ceiling, on the wall or in  a stand special made for target with lift..
- For a smooth sliding surface up and down on each side of the target.
- This is done by using the existing wall or table mount sliding
- The target is mounted in a cargo strap on to the lift
- The target lifts are chained together for communication and power.
- The three positions (plus park) are programed from the master display unit (software controlled)

## LED Light

The target can be delivered with integrated LED illumination
- 5 steps level gives from 1500 - 2500 LUX
- Can also be mounted on old targets

## Some key factors of the ML2000 system

- No central component can stop the operation of the system.
- If you lose the electricity during a competition, you can run the system on 12V battery without losing anything.
- Every occurrence are stored at several levels in the system
    - In the target Controller
    - In the monitor
    - In the range management computer if used
    - In the result management program if used
- A patented system for measuring the "pressure" of the sound in the chamber – This gives very valuable information regarding the wear of the target.
- Hardware counter – This is a counter who increases with one value every time something occurs in the target. If one microphone fails, it is not possible to calculate the scoring of the shot and the data is thrown. This is similar in all systems. With this counter you are able to see if the electronic have failed, and also if the electronic has restarted (another value). This gives you an extraordinary possibility to handle a protest from a shooter.
- All big bore targets are produced with laminated wood, and are painted.
- The aiming plate is very precisely mounted, so the optical and electronic centre is within 1 cm.
- A small monitor who easily can be felled together for simple and safe transport and keep.
- All software developed by Megalink. These increase the quality and the collaboration between the electronics and the software.
- All targets defined in the system is included in the standard monitor software.
- We have targets from 10m air rifle/pistol to 300m big bore approved by different federations.
- Phone support with very high knowledge of the system and arrangements.

## Specification:

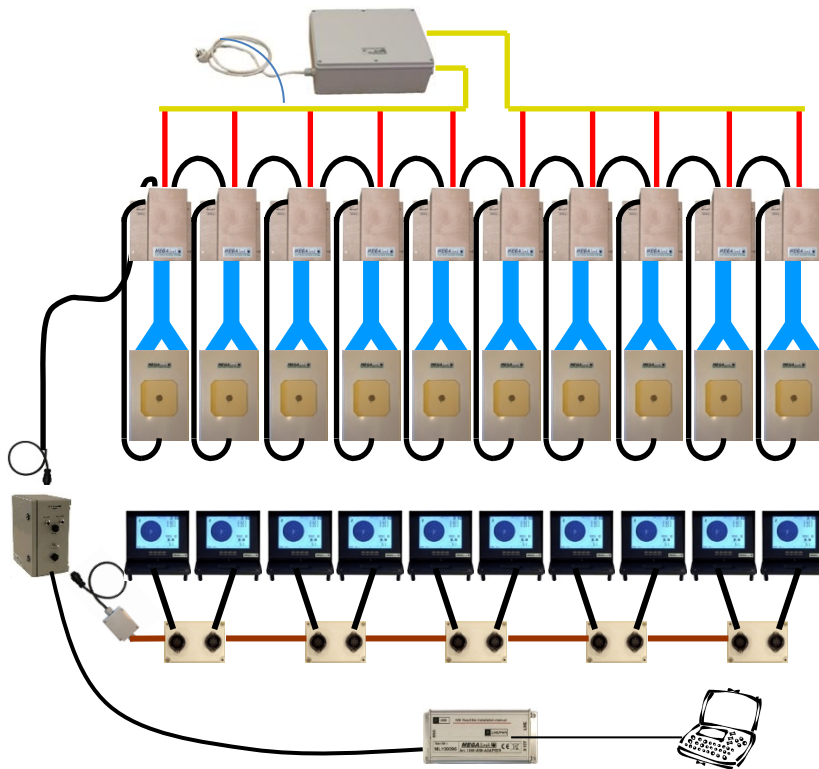| Target | | |
|---|---|---|
| Approvals | ISSF | 10m phase II |
| | NSF, SvSf,  SSF | 10,50 |
| | DFS og NSF | 15m finkaliber |
| Detection erea | | 172x172mm |
| Poweruse | 12-16v | 50-80mA |
| Skivemål | | 280x430x100mm (BxHxD) |
| Vekt | Skiveenhet | 6,7Kg |
| | 15mm Finerplate | 1,3Kg |
| Tempratur | Lagring | -25C - +60C |
| | Bruk | -25C - +45C |
| Ombygning sett | ISSF | 10m Rifle/Pistol |
| | NSF/DFS/DDS/SVSF | 10/15/50m |
| | ISSF | 50m |
| **Targetlift** | | |
| Measures | | 85x150x245 (WxHxD) |
| Weight | | 3,5Kg |
| Lifting capacity | | 20Kg |
| Speed up/down | | 8sec / 6sec |
| Power Supply | | 2vAC/5A |
| Mounting ceiling | | |

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## 10m and 50m
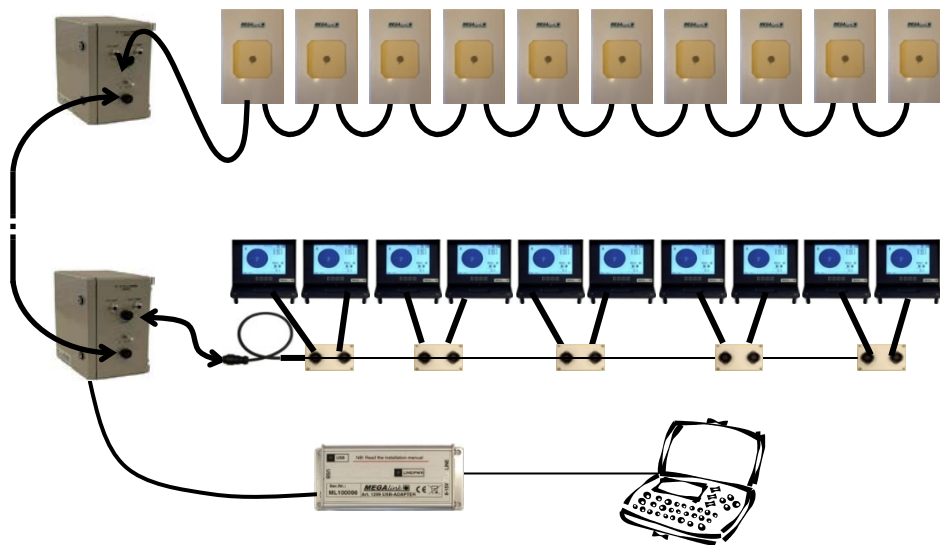


| Product number | Picture | Product name | Beskrivelse |
|---|---|---|---|
| *6002-D* | | *Target 4K187* | |
| *6412* | | *Target 4K187* | With LED |
| *6335* | | *Power supply LED light* | 24V/5A |
| *1013m 2,5m*<br>*1014m 5m*<br>*1015m 10m* | | Target cable | |
| *5570* | | Monitor/Target box - single | |
| *5565* | | *Cable between monitor and target box.* | |
| *1299-B* | | *USB adapter* | |
| *5744* | | Connection box for monitor (double) | |
| *1023* | | Cable between connection boxes for monitor (meter) | |
| *5574* | | Junction box | |

# 10- 15m with lift



| Produkt nummer | Bilde | Produktnavn | Beskrivelse |
|---|---|---|---|
| 5619-B | | Target lift | |
| 1157 | | *Power supply target lift* | 24V/5A |
| 1203 | | Cable flat RJ45 3m | Kabel mellom heis og skive |
| 1315 | | Cable flat RJ45 1,5m | Kabel mellom heisene |
| *5574* | | Junction box | |
| | | | |

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## Pc based target 10m
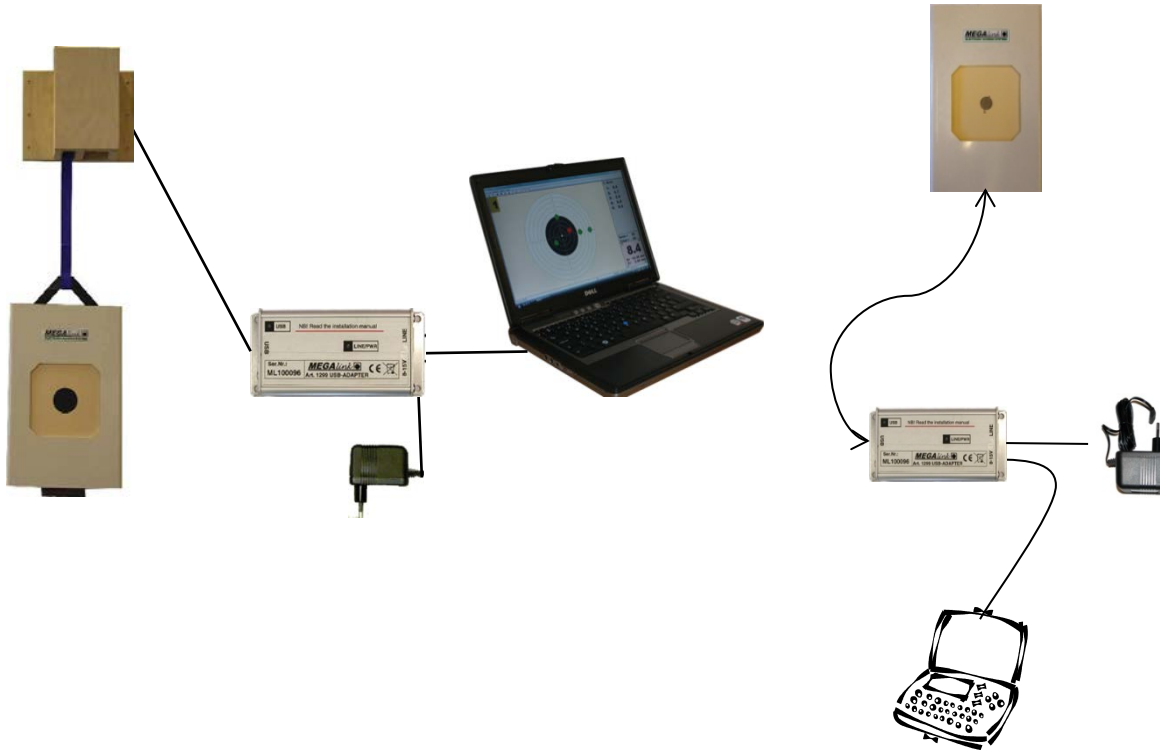


| Produkt nummer | Bilde | Produktnavn | Beskrivelse |
|---|---|---|---|
| 1027 | | MLShoot | |
| 1282 | | Hasp key | |
| 6164 | | Power supply USB | |
| 5611 | | Cable 25m rJ45-Rj45 | Cable between target/lift and USB adapter |

# Running 10m
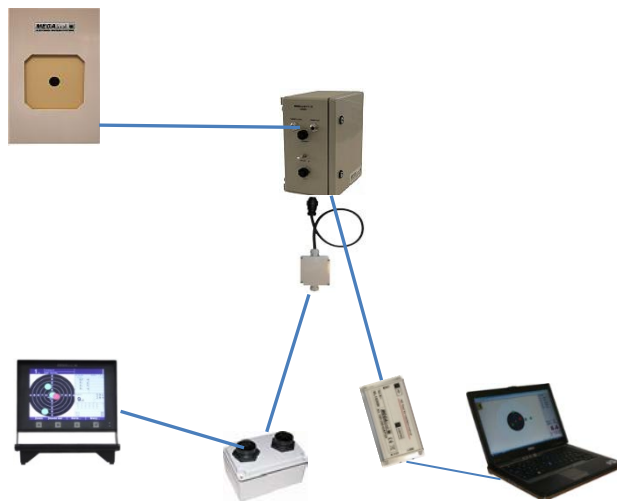


| Produkt nummer | Bilde | Produktnavn | Beskrivelse |
|---|---|---|---|
| 6890 | | 4K187L Not correct picture | For running target. |
| 6037 | | Target cable 7m | |
| 5570 | | Monitor/Target box - single | |
| 5574 | | Junction box | |
| 1023 | | Cable between connection boxes for monitor (meter) | |
| 5744 | | Connection box for monitor (double) | |
| 5999 | | Monitor cable | Standard 2m. Can also deliver in length for 3 and 4m. |
| 6630 | | Monitor | |
| 5769-20M | | Cable, 20m cat5 RJ45 | Cable between pit cabinet and USB adapter. |
| 1294 | | USB adapter | |
| 5361 | | USB Kabel | Standard usb cable 2 |

| 1138 | | MLRange | |
|------|--|---------|--|

## Ekstra Utstyr

| 5619-B | | Target lift | |
|--------|--|-------------|--|

| 6480 | | Target stand for lift with target 4K187 or 4K300 | |
|------|--|---------------------------------------------------|--|

| 6075 | | Stand 140cm | |
|------|--|-------------|--|

| 6163-B | | Pellet trap air weapon, wall mounted | |
|--------|--|--------------------------------------|--|

| 5928 | | Pellet trap smallbore 4K187/4K300 | |
|------|--|-----------------------------------|--|

| 6172 DU3<br>6171 DU2 | | Remote control DU3, incl cable | |
|----------------------|--|--------------------------------|--|

| 6181 | | Falling Target | |
|------|------|----------------|------|

| 1083 | | Smartcard | |
|------|------|-----------|------|
| 5897 | | Smartcard reader for PC. | |
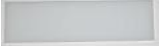
# Slitedeler

| | | | |
|---|---|---|---|
| 1037 | | ISSF 10m Rifle | Ø 30,5mm |
| 1038 | | ISSF 10m Pistol | Ø 59mm |
| 1036 | | DFS 15m Rifle | Ø 38mm |
| 1039 | | NSF 15m Rifle | |
| 1046 | | Paperrull | 12cm and 37m length |
| 1042-B | | Gummirull 12cm | 12cm and 280mm length |
| 1060 | | Adapter | 00mm |
| 1304 | | DDS 15m Rifle | Ø 42,8mm |
| 1307 | | DDS 15m Pistol | Ø 100mm |

| 1220-B | | Skum | 22x22cm |
|--------|--|------|---------|
| 5863 | | Aiming plate DDS 50m | Ø 146,6mm |
| 5864 | | Aiming plate ISSF 50m | |

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## Reservedeler

| Produkt nummer | Bilde | Produktnavn | Beskrivelse |
|---|---|---|---|
| 5032 | | Microphone | |
| 1251 | | Skum for feste av papirrull | |
| 5056 | | Fjær for pressvalse til motorframtrekk | L=45mm |
| 6275-B | | Repaterkort | |
| 1137 | | Propp til standplasskontakt | |
| 5772 | | Propp metallkontakt | |
| 5406 | | Strømforskyning skap | |
| 1241-2-P17 | | Pressvalse | |
| 1185-2-P33 | | Pressvalse holder | |
| | | Skruer | Til feste av opphengsbånd heis |
| 5680 | | Plasthylse | For feste av opphengsbånd og båndet fra skiveheis |
| | | Plastskive | For opphengsbånd |
| 5338 | | Forenings klemme | |
| 5307 | | Opphengsbånd | |
| 5302 | | Bånd for skiveheis | |

# About Megalink

Megalink a.s was founded by shooters with skills and experience in design and production of electronic computer based solutions. The first products were delivered already in 1987 while the current company was officially founded in 1991. The development of the electronic targets started in 1993 and the first targets were sold in Norway in 1997. These targets are still in active use running the newest software.

Megalink has now delivered more than 12.500 targets since 1997, to more than 1.150 customers all over the world.

The ML2000 system provides a complete solution for electronic detection and presentation of shooting results. A few different target units can be used to cover a large range of shooting variants. All target units are based on sound wave measurements.

The shot results are presented on a handy display unit located at the shooters stand. Competition staff operates the system with high quality Windows applications. The audience can follow the shooting on large screens using standard PC technology.

The ML2000 system is based on handy modules with simple cabling. Installation can be done by the customers and the range can easily be expanded later. The use and maintenance of the system is easy and does not require special training. Large amounts can be saved with the ML2000 system, since the same equipment can be used in different configurations.

Megalink a.s can deliver complete solutions for scoring management for shooting. This includes electronic shooting targets, range management, scoring result system and support.

Megalink a.s has visions for future growth, and we are working in cooperation with the approval of ISSF (International Shooting Sport Federation). The application is being considered, and we did some testing in November 2004. We now have the results from the testing, and we passed Phase I Accuracy and Technology. In September 2006 we did the Phase II test, and we are pleased to announce that our systems are now ISSF certified for 10m and 50m disciplines.