

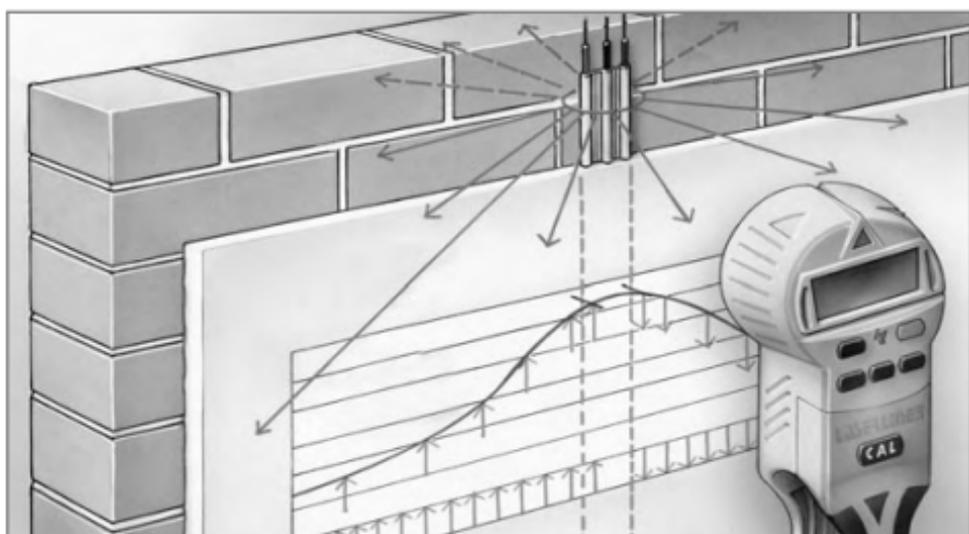
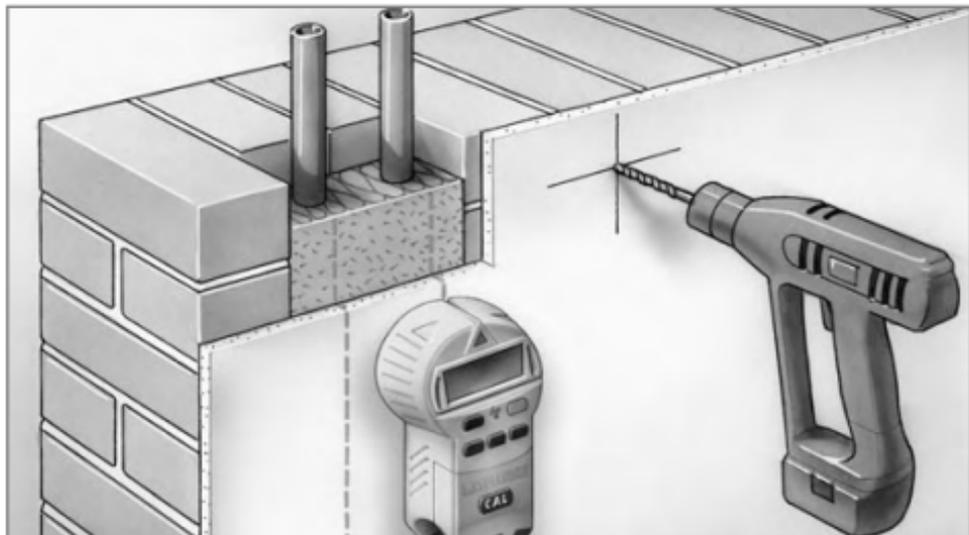
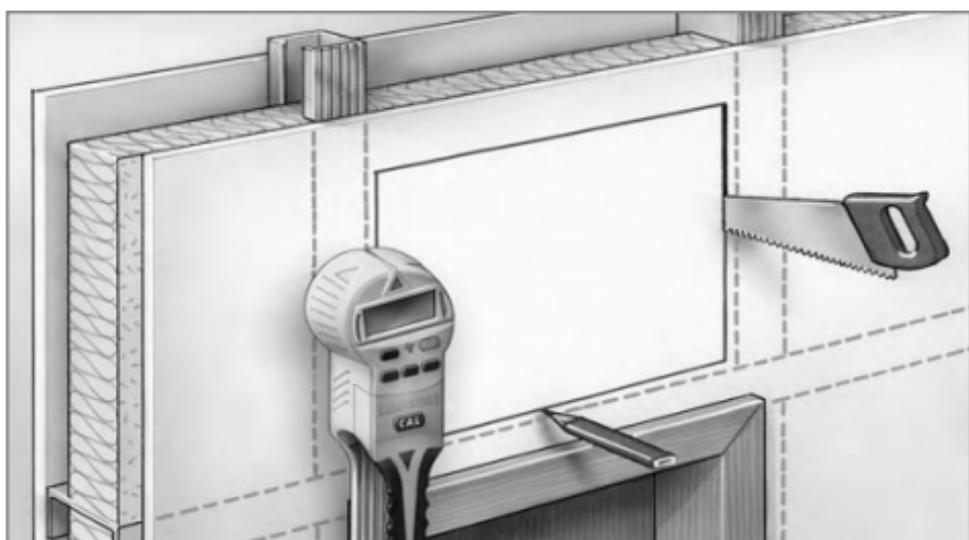
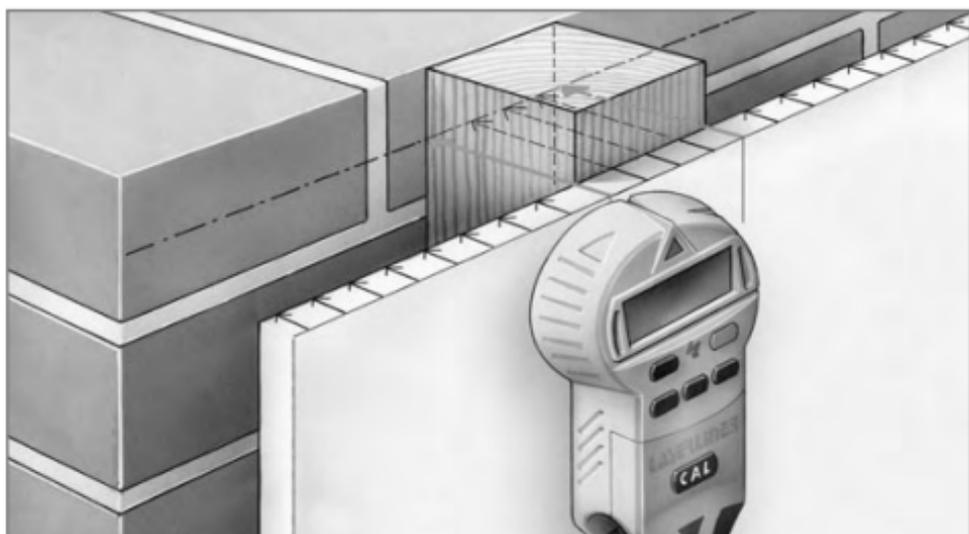
MultiFinder Pro



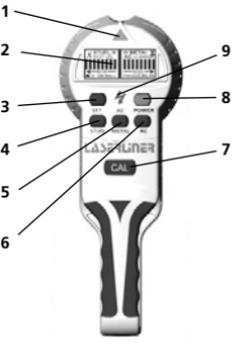
080.960A / Rev 1105

- Ⓚ Bedienungsanleitung
- Ⓒ Operating instructions
- Ⓝ Gebruiksaanwijzing
- Ⓓ Betjeningsvejledning
- Ⓕ Mode d'emploi

LASERLINER
Innovation in Tools



Several integrated sensors make the MultiFinder Pro from Laserliner to a highly effective detection tool. The MultiFinder is equipped with an LC display with user guide, ensuring easy and reliable operation. Acoustic and visual signals for finding objects provide additional assistance. High functioning safety is ensured by special warning signals.



- Key**
- 1 Maximum display
 - 2 LC display
 - 3 Measuring depth switch: Normal / Deep / S-Deep
 - 4 **STUD-SCAN** (max. measuring depth: 3 cm)
 - 5 **METAL SCA** (max. measuring depth: 10 cm)
 - 6 **AC-SCAN** (max. measuring depth: 4 cm)
 - 7 Calibration
 - 8 ON / OFF
 - 9 Live wire warning

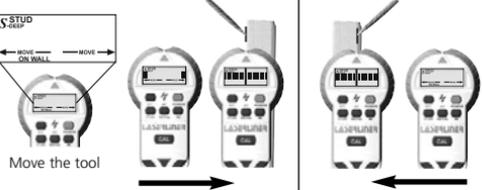
OPERATING INSTRUCTIONS

1. Insert battery: To do so, open the battery compartment in the back of the housing and insert a 9V battery (E-Block/PP3&LR61).
 2. Switch on the MultiFinder (button 8)
 3. Select **STUD-SCAN**, **METAL-SCAN** or **AC-SCAN** (4, 5, 6)
- A. STUD-SCAN:** For electronically detecting studs and joists in dry walls (plaster fibreboard, wooden panels and other non-metallic panelling). Use the SET button (3) to adjust the measuring depth.
- B. METAL-SCAN:** For detecting metal in masonry and concrete walls. The tool is able to detect hidden metal in all non-metallic materials, e.g. brick, concrete, screed, wood, plaster fibreboard, gas concrete, ceramic and mineral building materials. Use the SET button (3) to adjust the measuring depth.
- C. AC-SCAN:** For localising live wires directly beneath the plaster or behind wooden panels and other non-metallic panelling. It is not possible to detect live wires in dry walls with metal studs.
- 4. Measuring in STUD-SCAN mode**
- Select **STUD-SCAN** (button 4) (Standard setting: "Normal". This setting is ideal for plaster fibreboard panels installed in one thickness (max. 1 cm).
 - Select "Deep" (SET button) for two plaster fibreboard panels installed on top of each other (max. 2 cm).
 - Select "S-Deep" (SET button) for thick wooden panels and floor constructions (parquet etc.), max. measuring depth 3 cm.

Now follow the instructions on the LC display.

- **ON WALL:** Place the tool against the wall.
- **PRESS CAL:** Press the calibration button (7) and wait until calibration is completed: **CAL OK**.
- **MOVE:** Move the tool slowly across the surface.

IMPORTANT: The device must be in contact with the wall all the time while scanning.



Slide the tool sideways across the wall. When the maximum display appears, you have reached the edge of the stud.

- Tip 1: The position between the two markings is the mid-point of the stud.
- Tip 2: The position where you start is important: First place the tool in a position where you know there is no stud. Otherwise, the message "ERROR" will appear in the display. To remedy: Move the tool to another position a few centimetres away and start measuring again.
- Tip 3: The maximum display does not light up, even though the LC display shows a reading. As soon as the most intense display appears, the tool is over the edge of the stud. Mark this point. Alternatively, increase the measuring depth (SET button).
- Tip 4: To avoid interference while scanning, keep your free hand and other objects at least 15 cm away from the MultiFinder.
- Tip 5: The MultiFinder will only find the outside edge of double studs and headers which may be fitted around doors, windows and corners.
- Tip 6: Ensure that you have really detected a stud. To do so, check on both sides whether other studs are present at equal distances, usually at 30, 40 or 60 cm. Also check that it is a stud by scanning at several places directly above and below the position of the first find.
- Tip 7: Textured ceilings: The ceiling must be covered with cardboard to protect it. In this case, use the DeepScan function.

CAUTION: If electric wires or metal or plastic pipes are located near or in contact with a plaster fibreboard panel, they may be identified by the MultiFinder as studs. Always switch off the power supply when working near electric wires.

SPECIAL THINGS TO NOTE WITH VARIOUS MATERIALS

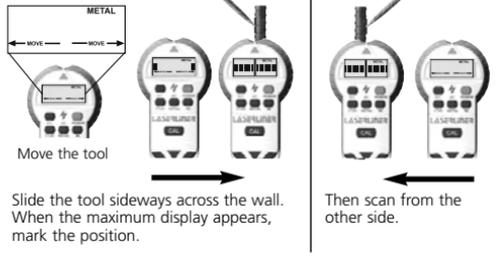
- It may not be possible to detect wooden studs or joists through the following materials:
- Ceramic floor tiles
 - Fitted carpeting with padded backing
 - Wallpaper with metal fibres or metal foil
 - Freshly painted, damp walls. These must have dried for at least one week.
 - In problem cases, use **METAL-SCAN** to localise nails or screws in dry walls that line up vertically where a stud is located.

5. Measuring in **METAL-SCAN** mode (iron, copper pipes and wires)
 - Select **METAL-SCAN** (button 5). Standard setting "Normal". This setting is suitable for iron and steel reinforcement elements that are suspected near the surface.
 - Select "Deep" or "S-Deep" for deeper objects to a depth of max. 10 cm (SET button).
 - Select "S-Deep" for copper pipes or copper electric wires which are suspected to be near the surface – copper pipes to a depth of max. 5 cm, electric wires to a depth of max. 3 cm. Flexible floor and wall heating pipes which contain a metal foil and are located near the surface may also be detected. Test for this function in places where you know the position of such pipes.

Now follow the instructions on the LC display.

- **PRESS CAL:** Press the calibration button (7) and wait until calibration is completed: **CAL OK**. (Calibrate on the surface.)
- **MOVE:** Move the device slowly across the surface.

IMPORTANT: The device must be in contact with the wall all the time while scanning.

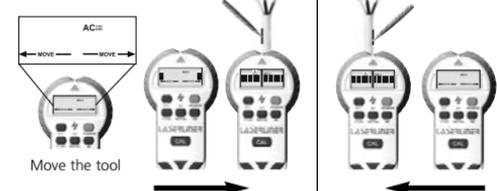


- Slide the tool sideways across the wall. When the maximum display appears, mark the position.
- Then scan from the other side.
- Tip 1: The position between the two markings is the mid-point of the metal object. Through the high measuring sensitivity, thick metal objects appear broader than they are in real life. By calibrating once more (PRESS CAL), the sensitivity can be reduced, and you can then begin measuring again nearer the metal object. If need be, repeat the process. Alternatively, reduce the measuring depth (SET button).
- Tip 2: The position where you start is important: First place the device in a position where you know there is no metal. Otherwise, the message "ERROR" will appear in the display. To remedy: Move the device to another position a few centimetres away and start measuring again.
- Tip 3: The maximum display does not light up, even though the LC display shows a reading. As soon as the most intense display appears, the tool is near to metal. Mark this point. Alternatively, increase the measuring depth (SET button).
- Tip 4: In the case of complicated applications, e.g. ribbed steel, scan the surface both horizontally and vertically.

6. AC-SCAN

The MultiFinder is able to detect the electrical fields of live wires.

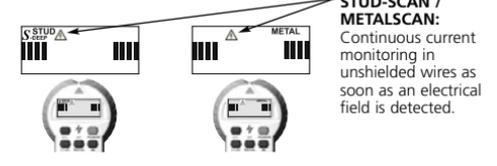
- Select **AC-SCAN** (button 6).
- **PRESS CAL:** Hold the tool in the air so that it is pointing away from any live wires. Press the calibration button (7). Place the tool against the wall.
- **MOVE:** Move the device slowly across the surface.



Slide the tool sideways across the wall. When the maximum display appears, mark the position.

CAUTION: Wires which are at a depth of more than 4 cm may not be detected. Always switch off the power supply when working near electric wires.

- Tip 1: Because of static charges, electric fields may be detected at the side of the actual position of the wire. To carry away these charges, lay your free hand on the wall.
- Tip 2: Move the tool slowly as friction can generate interfering electric charges.
- Tip 3: If you suspect that wires must be present but cannot find any, this may be because they are shielded in conduits. Use **METAL-SCAN** in order to localise conduits.
- Tip 4: Metal in walls (e.g. metal studs) transmit electrical fields and may therefore cause interference. In this case, switch to **METAL-SCAN** in order to find the wire.
- Tip 5: The position where you start is important: To achieve maximum sensitivity, start by placing the device in a position which is known not to be near live wires.



STUD-SCAN / METALSCAN: Continuous current monitoring in unshielded wires as soon as an electrical field is detected.

Subject to technical alterations.

Warranty

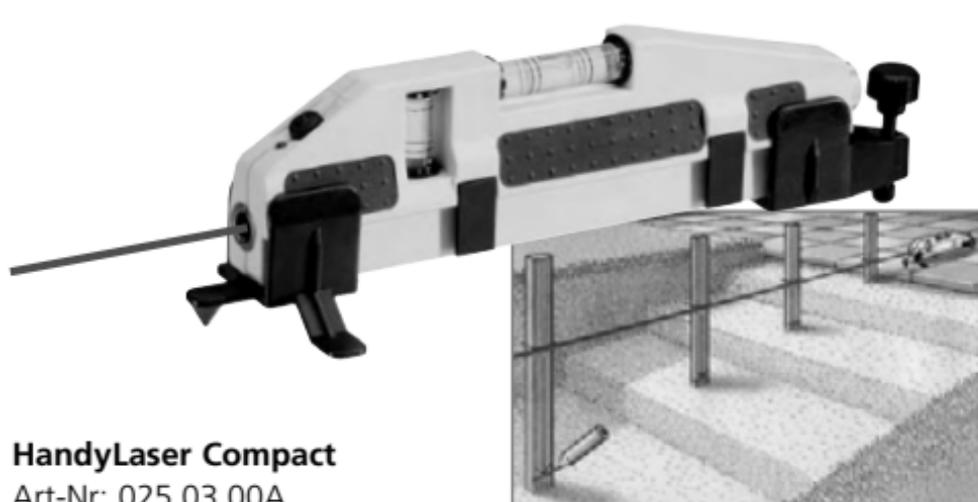
The warranty is valid for 2 years from the date of purchase. The warranty does not cover damage caused by improper use or storage, normal wear and tear, or defects which only insignificantly impair the value of the product or its functioning. Any tampering by unauthorised persons will render this warranty void. In the event that you need to claim warranty, please take the complete device together with all information and the invoice to one of our dealers or send it in to UMAREX-Laserliner.

Laserliner – Innovation in Tools



MeterMaster Pro Laser
Art-Nr: 080.930A

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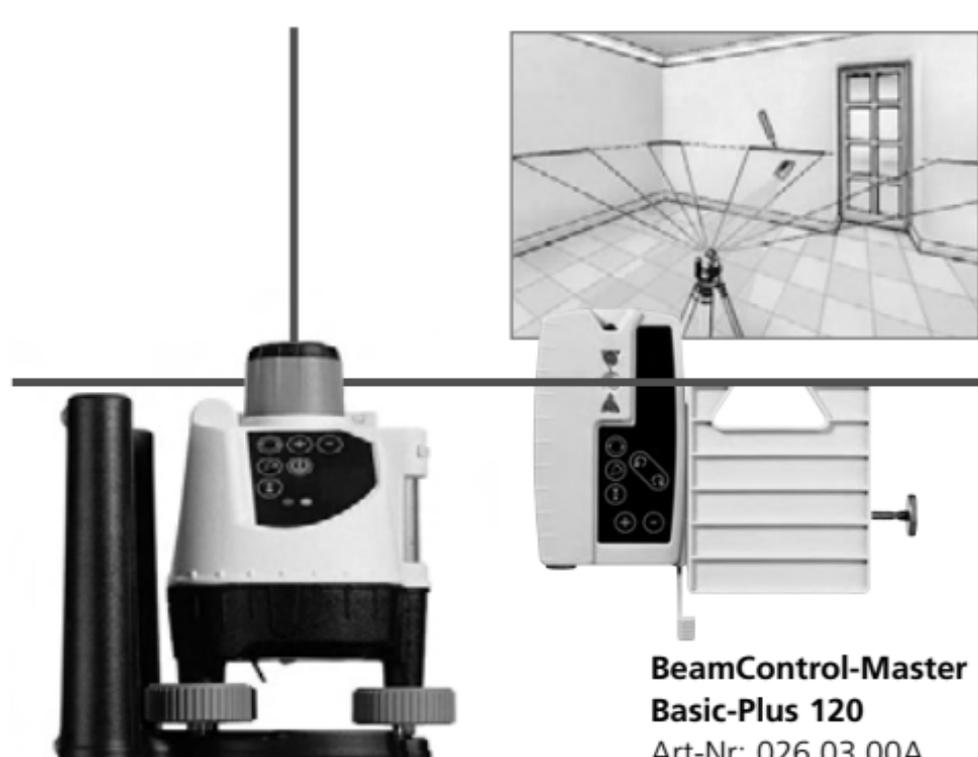
HandyLaser Compact
Art-Nr: 025.03.00A



MultiBeam-Laser 3
Art-Nr: 060.010A



AutoCross-Laser 2
Art-Nr: 031.00.01A



**BeamControl-Master
Basic-Plus 120**
Art-Nr: 026.03.00A

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