

WARRANTY CARD

1. KH Trading machines and tools are covered by 6/24 months warranty, starting on the date of purchase, as described in the Civil Code (proof of purchase or invoice receipt must be enclosed with the warranty card when making a claim).
2. This warranty does not cover defects caused by unprofessional handling, machine overloads, not complying with instructions contained in this manual, using accessories that are not approved, unauthorized repair, regular wear and tear and damages occurred during transport. Further, this warranty does not cover parts and accessories such as the motor, carbon brushes, seals and hot-air operated parts and parts that need to be changed regularly.
3. If the repair is to be found as not covered by the warranty policy, all costs including the repair and shipping to and from the repair centre will be paid by the customer, according to valid price list. See www.
4. When making a claim, you must present the warranty card, showing the date of the purchase, the serial number of the machine, vendor stamp and signature of sales clerk, as well as the proof of purchase receipt.
5. Warranty claim shall be made at the vendor shop where you bought your machine or you may mail it to a service centre. The vendor is obligated to fill out the warranty card (date of sale, serial number, vendor stamp and signature). All these information must be filled in at the time of sale.
6. The warranty period will be extended for the period of time for which the machine has been in the service centre possession. If the repair or defect is not covered by the warranty policy, all costs including the repair and shipping will be paid by the owner of the machine / tool. We recommend sending the machine in its original packaging. Please, also enclose brief description of the defect with the packaging.
7. Before sending the machine for repair, clean it thoroughly. If the received machine is dirty, it may be rejected by the service shop or you may be charged a cleaning fee.

SERVICE

Logistic centre Klecany

Topolová 483

250 67 Klecany

Czech Republic

Claim department phone number: 266 190 156

T-mobile: 603 414 975

266 190 111

O2: 601 218 255

Fax: 260 190 100

Vodafone: 608 227 255

<http://www.KHnet.cz>

Email: servis@KHnet.cz

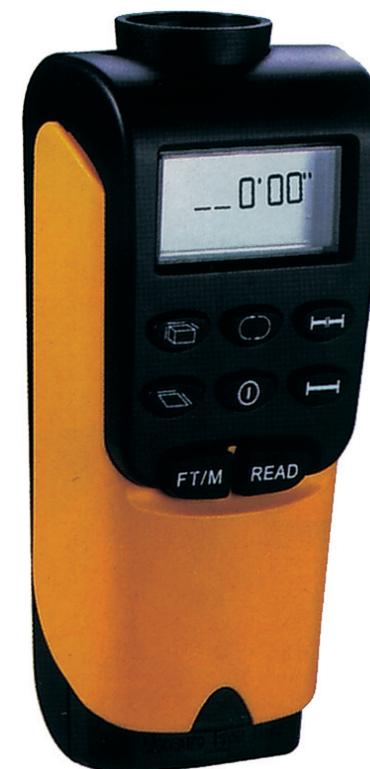
Product: ULTRASOUND DISTANCE MEASURING DEVICE 7409	
Type: 7409	Serial number (product series):
Date of manufacture:	Repair centre notes:
Date of sale, stamp, signature:	

Without the correctly filled warranty card or without proof of purchase receipt, including the product type (invoice, purchase receipt) no warranty claim will be processed.

uni-max

USER'S MANUAL

ULTRASOUND DISTANCE MEASURING DEVICE 7409



7409

Dear customer. Thank you for purchasing equipment from KH Trading, s.r.o.
 Our company is ready to offer you our services - before, during and after you buy our product.
 If you have any question, comment or idea, please contact our business centre. We will do our best to address your comment or question in timely matter.

Before first use, please read this manual carefully. It is your responsibility to study all instructions, necessary for safe use and operation and to understand all risks that may be involved during the use of power machines.

WARNING! Do not try to use this machine before reading this entire manual and before you know how to handle it. Keep this manual for future reference. Pay special attention to safety instructions. Not complying with safety rules may cause injury to the operating person or to people standing by or it may cause damage to the machine or to the work piece.

Pay special attention to safety notes and safety labels on the machine.
 Never remove or damage them.

Please, write information such as the invoice number and the number of the sale receipt here in this box.

DESCRIPTION

The measured point is marked by a built-in laser dot pointer. The distance is measured from the bottom edge of the device marked with an arrow and the text Measure From Base. Measuring range: 0.6 – 15 m (Accuracy depends on circumstances and measuring method). Measuring angle: 15°. Wave length: 650 nm. Laser power: < 1 mW. 2-row LCD display. Power source: 9 V battery (not included). A built-in calculator can automatically add up or multiply measured lengths to calculate area and volume. Switching between metric and imperial units.

TECHNICAL SPECIFICATION

Voltage	.9V battery 6F22
Measuring range	.0.55 - 15 m
The precision depends on the surrounding conditions and measuring method.	. . . ± 3 (0.5 % + 1 digit).
Battery capacity	.more than 10 hours. (alkaline battery)
Power consumption during measurement	.max. 30 mA
Power consumption in power saving mode.	.max. 1.5 mA
Power consumption when switched off	.max. 50 mA
Automatic shut off	.after 30 s of inactivity
Range of measurements	
Length	.98 ft (30 m)
Square area	.2,421 sft (225 m ²)
Volume	.119187 cft (3,375 m ³)
Surrounding temperature	.0 - 40°C
When measuring long distances (12 - 15 m) the surrounding air humidity must be	. . . > 48%.
Object dimensions	.10 ft × 10 ft (> 3 × 3 m)
Angle of measurement	.15°
Wave length	.650 nm
Laser output	.< 1 mW
Display	.two lines

The accuracy of instructions, graphs and information contained herein, depends on the printing date. Due to continuous product improvement, the manufacturer reserves the right to change technical parameters of the product, without prior customer notification.

- Never perform any maintenance during operation.
- If you see any unusual sign or hear any strange sound, switch off the machine immediately.
- Do not forget to remove all wrenches and/or screwdrivers from the machine.
- Before use, make sure all screws are tightened securely.
- Perform maintenance regularly. Before use make sure the machine is in good working conditions and without any damage.
- Use only original spare parts during repairs.
- Using accessories and extension piece not approved by the manufacturer may cause injuries to the operating personnel.
- Use this machine only for work that could be handled by it. Do not overload tools, accessories or the machine. For large work volume use more powerful machine.
- Do not overload the machine. Measure the work load in such way, so it could be done with comfortable speed. Damages due to machine overload are not covered by the warranty policy.
- Do not expose to extremely high temperature or direct sunlight.
- This machine is not designed for use in humid environments or under water.
- If you are not using your equipment, store it in a dry and locked place, out of reach of children.
- Before switching your machine on, make sure that all safety elements work as designed. Make sure all moving parts are in good working conditions.
- Inspect all parts for cracks and damages. Make sure movable parts are not stuck and set properly. Also take into consideration other conditions that may have a negative effect on the proper function of your machine.
- If not stated otherwise in this manual, all damaged parts and safety elements must be repaired or changed.



Laser beam

- Laser equipment class II (EN60825-1 : 1997).
- To prevent eye injuries do not look directly into the laser beam with bare eye or through any optical device.
- Laser beam due to high light concentration may damage your eyes even over a long distance.
- Do not aim the laser beam toward other persons or animals. Severe eye injuries may occur.



Battery powered equipment

- If you are not using your equipment, remove the battery. Battery leakage may damage you device.



Fine mechanics

- Never use a vise to hold you device.
- Protect your machine from fall and impact. When you finish your work store your equipment back inside the case.



Assembly

- Do not use the machine unless completely assembled.

Ultrasound equipment

- The measuring precision is best when the measuring surface is flat, solid and wide enough.
- It is recommended to place a piece of cardboard over the measuring object, if it is too small or irregular in shape.

MAINTENANCE

- Keep your tools clean. Dirt may enter the inner part of your device and cause damages.
- Do not use aggressive cleaning solution or paint thinners to clean the machine.
- Clean plastic parts with soft cloth dipped in soapy water.
- Clean and lubricate metal surfaces with a cloth dipped in paraffin oil.
- If you are not using your machine, conserve it with grease and store it in dry place to prevent corrosion.
- Remove the battery out before storage.

Detailed description of the use of this device is not included in this manual, because the manufacturer / distributor assumes that the user is experienced in similar type of work. Also according to the applicable law, this device is considered as a commonly sold and used tool. If the user is unfamiliar with the use of this device, we recommend finding out more information about using this device at the Department of work safety.

DISPOSAL

Used hydraulic fluids must be disposed off in accordance with the Law of waste disposal management. When the operational life of your device is over, dispose off it in accordance with valid rules and regulations. Your product is made of metal and plastic parts that may be recycled when separated.

1. Disassemble all parts.
2. Separate all parts according to the material they are made of (e.g. metals, rubber, plastics, etc.). Take the separated parts to the recycling facility near you for further processing.
3. Electrical waste (used electrical power tools, electric motors, recharging equipment, electronics, accumulators, batteries etc.).

Dear customer. In accordance with the valid regional rules and regulations describing the management of electrical waste, electrical waste is considered dangerous.

Disposal of electrical waste must be therefore handled as dangerous waste in accordance with waste management rules valid in the state you are in.

It is prohibited to mix electrical waste with regular household waste.

You may return your used electrical appliance to a recycling facility near you. More information about electrical and dangerous waste disposal may be obtained from your local authority or from the Internet.

CAUTION

If the machine breaks down, send it back to the vendor for quick repair.

Please, enclose brief description of the defect. That makes repair easier. If the machine is still covered by warranty, enclose the warranty card and proof of purchase receipt. After the warranty period expires, we repair your machine for a special price.

To prevent possible damages during shipping, packed the machine carefully or use the original packaging material.

We are not liable for shipping damages due to incorrect packaging of your machine. If making a claim at the shipping company the level and method of packaging plays a major role during claim evaluation process.

Note: Pictures and contents in this manual may slightly differ from the actual product or accessories. It is due to continuous improvement of our products. Such small differences have no effect on the product functionality.

ASSEMBLY

- Before throwing the packaging material out, make sure no part is left inside. If so, take it out and install it. Use the part listing for check-up and the installation drawing for guidance.

Installing the battery. The battery is not supplied with your device

- Slide the battery cover on rear part of your device in the direction of the arrow.
- Connect the battery to the terminal.
- Close the cover.

If the your device indicates that the battery is low, stop working and change the battery. The measured values are not precise.

OPERATION

Ultrasound meter may provide you with imprecise information in these following cases:

- The measured distance is longer than 15 m and shorter than 0.55 m.
- The measuring distance is not measured from the bottom part of you meter marked with a phrase "**Measure From Base**".
- Empty battery.
- Close presence of other ultrasound waves.
- The device and the beam is not perpendicular to the measuring surface.
- The measuring object has surface that does not reflect the ultrasound well.

Keyboard key description

READ button - main meter switch

- Aim the meter at the object.
- Press the **READ** button. The laser points out the end where the length is measured.
- Read the measured distance.
- If you press and hold the **READ** button the measured value will change dynamically.
- Each new value is displayed in the upper part of the LCD display.
- Each new value will overwrite the old value.

FT/M button - switches between metric and British standards.

- One press of this button will change the currently set units to the next available units (metres /inches)
- Valid for length, square area and volume.

Switch

- If the device is in power saving mode, pressing the  button will switch the meter on.
- If you press the  button during the measuring process, the device will switch back to the power saving mode.

button - data recall

- By pressing the  button the display will show measured data in square area, volume and double straight distance mode.
- At the same time letters **L, W, H**, etc. will flash.

Button  **enters the square footage area mode (SQU).**

- By pressing the  button the device will switch to the square footage area mode.

Button  **enters the volume mode (VOL)**

- By pressing the  button the device will switch to the volume mode.

Button  **enters the straight distance measurement mode (LINE)**

- By pressing the  button the device will switch to the distance measuring mode.

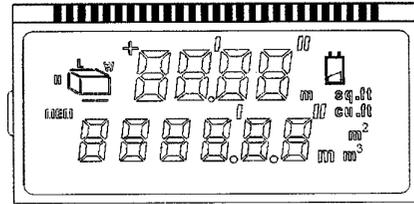
Button  **adds one measured distance to the already measured value TWIN)**

- By pressing the  button the device will switch to the double distance measuring mode.

LCD display

Legend:

- sq.ft square foot
- cu.ft cubic foot
- mem memory



The symbol "Err" will be displayed on the display in the following cases:

- The measured distance is longer than 15 m and shorter than 0.55 m.
- The measuring object has surface that does not reflect the ultrasound well.

USER'S MANUAL (distance, area and volume measurements)



Before measuring, press the  button to switch the device on.

During the measuring process, the distance end point is marked by a laser dot.

The distance is measured from the bottom part of you device marked with the phrase **"Measure From Base"**.

Distance measurements (LINE) 

- By pressing the **READ** button you will receive the measured value.
- You will receive another measured value when you press the **READ** button again.

Calculation of double straight distance TWIN

- By pressing the  you will renew the function again.
- By pressing the **READ** button you will get information about the measured object and at the same time other value is displayed in the second line.

- By pressing the **READ** button again you will receive another measured value that will be displayed in the upper line of the LCD display. The added value is displayed in the lower part of the LCD display.
- By pressing the  button you may display both previously measured values.
- If the value and the symbol flash, press the **READ** button to measure the value again.
- After you have measured the distance in TWIN mode, you may press the **READ** button regardless if the symbol flashes or not.

Square area calculation

- Press the  to switch to the area measurement mode.
- Symbol **L** (Length) is flashing on the LCD display. After you have pressed the **READ** button you will receive a measured value that is displayed in the upper part of the LDC display.
- As soon as you finish with the distance measurement, the value is displayed in the lower part of the LCD display.
- Symbol **W** (Width) is flashing on the LCD display. After you have pressed the **READ** button you will receive a measured value that is displayed in the upper part of the LDC display.
- As soon as you finish with the **W** (Width) measurement, the square area (**L x W**) is automatically displayed in the lower part of the LDC display.
- By pressing the  button again, you may choose the current value **L** or **W**.
- When you press the  button, the device will perform another calculation automatically.
- By pressing the  button again, you may call the **L** or **W** value. If the applicable value and symbol flash, you may perform other measurement again - after pressing the **READ** button.
- If the applicable value and symbol flash, press the **READ** button. A new value is measured again and the square area is calculated again.

Volume calculation

- Press the  to switch to the volume mode.
- Symbol **L** (Length) is flashing on the LCD display. After you have pressed the **READ** button you will receive a measured value that is displayed in the upper part of the LCD display.
- As soon as you finish with the distance measurement, the value is displayed in the lower part of the LCD display.
- Symbol **W** (Width) is flashing on the LDC display. After you have pressed the **READ** button you will receive a measured value that is displayed in the upper part of the LDC display.
- As soon as you finish with the **W** (Width) measurement, the square area (**L x W**) is automatically displayed in the lower part of the LDC display.
- Symbol **H** (Height) is flashing on the LCD display. After you have pressed the **READ** button you will receive a measured value that is displayed in the upper part of the LDC display.
- As soon as you finished with the **H** (Height) measurement the volume (**L x W x H**) is displayed in the lower part of the LCD display.
- When you press the  button, the device will perform another calculation automatically.
- By pressing  button you may recall values that had been used during the volume calculation (**L**, **W** or **H**). If any value or symbol flashes, you may perform other measurement of the flashing symbol/value.
- If the applicable value or symbol flash, you may press the **READ** button and perform a new volume calculation.