



Techman Laser Measuring Tape User Manual

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Model 4800710 / AL0519

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INTRODUCTION



Fig.1



Fig.2

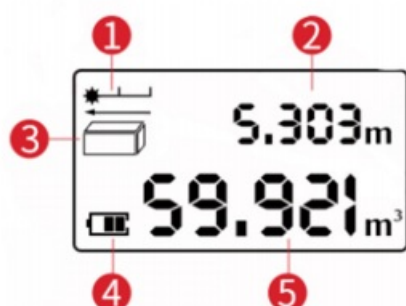


Fig.3

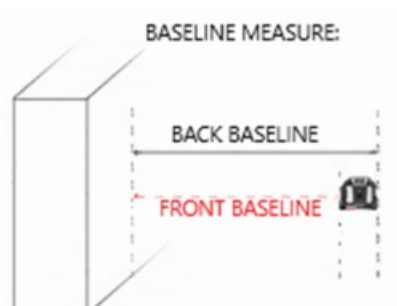


Fig.4

Fig.1 – Parts List

1. Unit switch button

2. Measure button
3. LCD display screen
4. Belt clip
5. Stop button
6. Laser emitter & receiver
7. Hook and measuring blade








Fig.3 – LCD screen display

1. Baseline
2. Measured value
3. Unit (distance, volume, area)
4. Battery indicator
5. Latest value

Fig.4 – Baseline measure

Available to choose the baseline back/front by pressing both buttons (1 & 2) simultaneously.

SYMBOLS

 	<p>Do not expose to rain or weather conditions to avoid the risk. Do not use or leave outdoors under rain.</p> <p>Do not expose to direct sunlight. Do not expose the device to extreme temperatures or temperature fluctuations.</p>
	<p>Read the instruction manual before using this device. Keep the manual for future reference.</p>
 	<p>LASER RADIATION - DO NOT LOOK INTO THE BEAM. CLASS 2 LASER DEVICE - IEC60825-1: 2014; P <1mW; λ: 630-670nm</p> <p>The equipment produces a visible laser beam that emerges from the front of the device. Do not look into the laser beam or point it unnecessarily towards other people. The projection of the eye is normally provided by aversive responses, including the palpebral reflex.</p>
	<p>The use of this product is prohibited to children and adolescents. Do not leave the product unattended. Children should be supervised to ensure that they do not play with the appliance. Keep the product out of the reach of children.</p>
	<p>Do not dispose of this product with household rubbish. Dispose of this product in the nearest recycle centre. Please contact your local authority or local recycle center for further information for its safe disposal.</p>

Do not discard this document. Keep it for future reference, it contains important information and precautions for use. Give it to any new user. The person responsible for the instrument must ensure that all users have read and

understood these instructions. Use of controls, adjustments, or procedures other than those described herein may result in hazardous exposure to laser radiation.

GENERAL SAFETY INSTRUCTIONS

1. Before using this product, please read and understand all safety instructions. Safety instructions should always be followed to reduce the risk of injury and damage.
2. Any other use different from that stated in this manual may cause damage to the product and present a serious hazard to the user or any other person.
3. The safety instructions and instructions given in this manual are not able to exhaustively illustrate all situations that may occur.
4. The user must use the product with common sense and caution especially regarding what is not indicated in this manual. Only adults who have received proper instructions should use this product.
5. Do not use the product if the switch is no longer controlling the shutdown and running. Any defective switch must be replaced by authorized service or qualified personnel to avoid any danger.
6. The user and / or operator of the product is solely responsible for damage and injury to property and persons / animals.
7. Unless otherwise specified in the instructions, it is recommended that an approved service have any damaged parts repaired or replaced; otherwise, there may be a danger.
8. **Do not point the laser beam at people or animals, vehicles, reflective surfaces and never look into the laser beam (naked eye or through optical instruments) even at great distances.**
9. **Test the equipment on known sources before use, to ensure that it operates properly.**
10. **If the equipment is used in a manner not specified by the manufacturer, the protection provided by the equipment may be impaired.**
11. **The laser device inside the equipment may be inspected, repaired or replaced by the manufacturer only.**
12. **After repair, this equipment must be re-evaluated to meet the safety requirements in accordance with IEC/EN61010-1:2010.**

INSTRUCTIONS OF USE

This laser is a high precision measuring device. Use this unit strictly following the following instructions to ensure optimal performance.

1. Do not point the device towards the sun or other bright light sources, this will give erroneous or inaccurate measurements.
2. Do not use the device in harsh, humid, dusty environments. Prolonged exposure to adverse environments can damage the internal components of the device or cause erroneous measurements.
3. Do not operate the device in an explosive atmosphere, for example in the presence of flammable liquids, gases or dust. The device produces sparks that can ignite dusts or vapours.
4. When the appliance is confronted with a sudden temperature change, it can only be used when it is calibrated at its new temperature.
5. **IMPORTANT:** adverse conditions can shorten the range of the measurement and reduce its accuracy (e.g. high solar brightness or a very bright working environment, a surface to be measured with low reflectivity, high surface area reflective, or rough surface, on light coloured liquids, clear glass, polystyrene foams or low-density

objects). Under these conditions it is recommended to use this instrument with a target (i.e. a white wall or a sheet of white paper); otherwise the risk of measurement error will be increased.

6. Check the accuracy of the device before reusing it whenever it falls or is compressed.

INTENDED USE

The product is intended for use indoors for the measurement of distances, lengths, heights, spacings.

LASER MEASURING

1. Press the MEAS button (2) to activate the device. Both the LCD screen and the beam will turn on.
2. Press the UNIT button (1) to select your measure plan: distance, volume or area.
3. Press the MEAS button again (2) to trigger the distance measurement. You can choose your measurement position accordingly: level, vertical or diagonal line.
4. Measurement value will display immediately on LCD screen (laser point will blink while measuring) Start a new measurement by pressing the button again and re-activate the laser beam, then repeat the above step (3).
5. Short press the UNIT button (1) (about 1 second) to switch the distance/volume/area. Long press the UNIT button (1) (about 3 seconds) to switch the metric/inch.
6. Press MEAS (2) and UNIT (1) buttons simultaneously to change the base line: front or back.
7. Long press the MEAS (2) button (about 5 seconds) to power off the device.

Note: the laser beam and the device turn off automatically after 30 seconds (beam) and 3 minutes (device) respectively to save the battery. Press again the MEAS (2) button to reactivate it.

MEASURING BLADE USE

1. Hold the case with one hand and pull the blade with your other hand. The blade hangs automatically.
2. Press the push button (5) to release the locking system and complete the blade rolling-up.

Note: when rolling-up, always accompany the blade to avoid any danger of injury or damage.

MAINTENANCE AND STORAGE

To ensure proper operation, maintain the device according to the following instructions:

DO NOT expose the device to frost or extremely hot environment, or subject it to external compression or long-term vibration.

It is necessary to store the device indoors and place it in its packaging when not in use.

Keep the device protected from dusty and humid environments.

Never immerse the device in water or any other liquid.

Use a clean, soft, moderately damp cloth, soaked in clean water and wrung out, to clean the unit.

DO NOT use corrosive or volatile substances for cleaning.

Take care of optical components (such as laser receiving lens and emitting laser beam) as if it were glasses or camera lenses.

The optical components can be wiped with a clean, soft cloth or a cotton swab dipped in distilled water and then wrung out.

DO NOT touch the lens of the device with your hands.

Check the battery level of the device regularly.

When the battery level icon on the display indicates that the battery is empty, recharge it.

DO NOT disassemble the unit by yourself. Unauthorized disassembly may lead to laser-induced injury.

DO NOT attempt to change any optical components installed and attached to the lens of the instrument.

DISPOSAL

Do not dispose with household garbage. Do not throw into the environment.

Dispose of the machine in a collection centre for waste of electrical and electronic equipment, or a waste drop-off centre; or seek advice from your local municipality.

TROUBLE SHOOTING

CODE	CAUSE	SOLUTION
208	Excessive current	Contact your reseller
220	Battery low	Recharge batteries
252	Temperature too high	Let the device cool down to operating temperature
253	Temperature too low	Warm up to the operating temperature
255	Received signal too weak or measurement time too long	Use target plate or change to a better reflective surface
256	Received signal too strong	Target too reflective, use target plate or do not aim at strong light objective
261	Outside of the measurement range	Select the measurement distance within the range of measurement
500	Hardware error	Switch on/off several times. If the problem persists, contact your reseller

SPECIFICATIONS

Measuring range	0.2-40m
Measurement accuracy	$\pm(3+5 \cdot 10^{-5}D)$ mm
Measurement unit	M / ft / in / ft+in
Protection class	Classe 2
Laser type	630-670nm / P<1mW
Single distance	√
Continuous measurement	√
Function	Distance / Volume / Area
Operating temperature	0°C-40°C
Storage temperature	-10°C-60°C
Base line	Front / Back
Battery type	USB recharge
Auto laser off	30 seconds
Dimensions	82 x 47 x 72mm
Weight (g)	285g

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