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EN Instrument Set-up

Introduction



The safety instructions and the user manual should be read through carefully before the product is used for the first time.



The person responsible for the product must ensure that all users understand these directions and adhere to them.

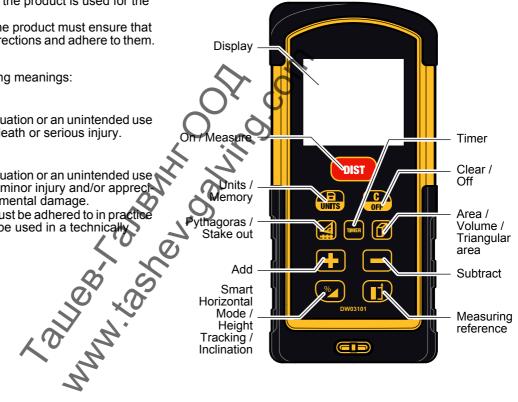
The symbols used have the following meanings:

Indicates a potentially hazardous situation or an unintended use which, if not avoided, will result in death or serious injury.

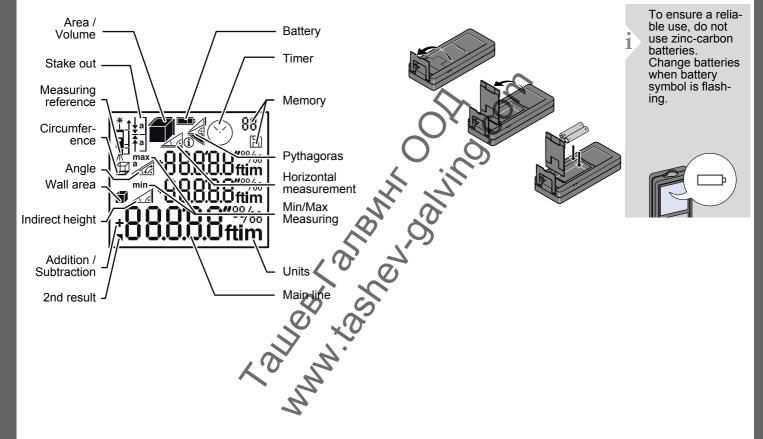
Indicates a potentially hazardous situation or an unintended use which, if not avoided, may result in minor injury and/or appreciable material, financial and environmental damage.

- Important paragraphs which must be adhered to in practice
- ¹ as they enable the product to be used in a technically correct and efficient manner.

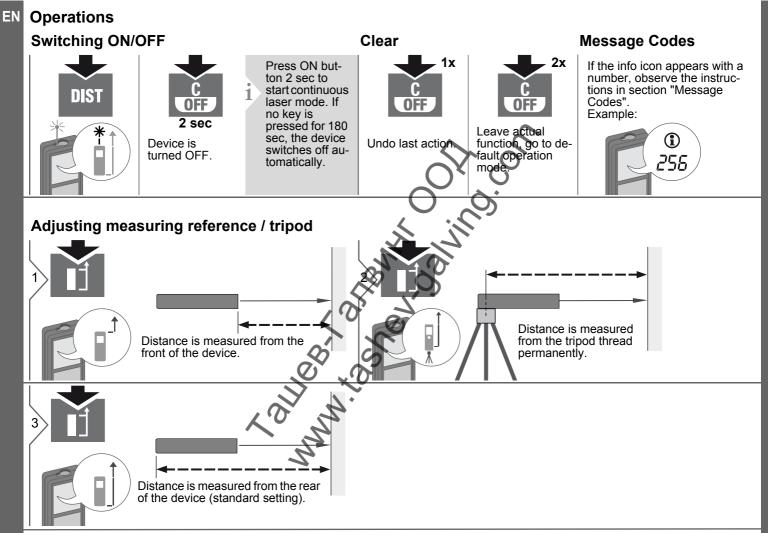
Overview

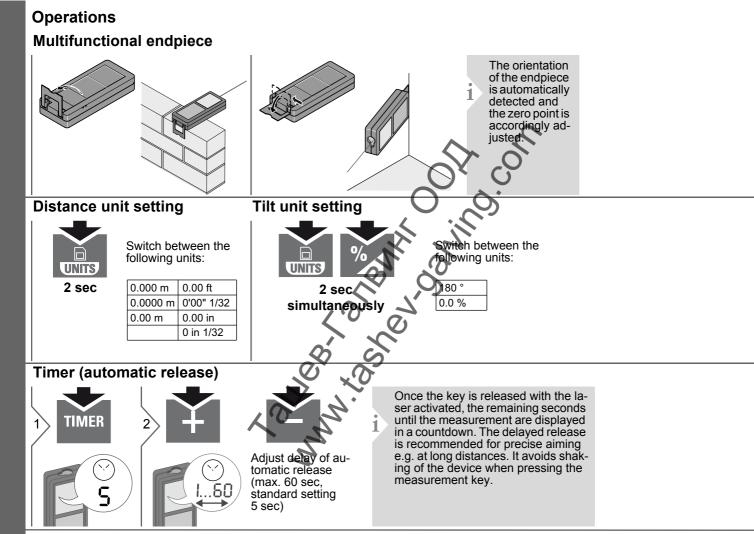


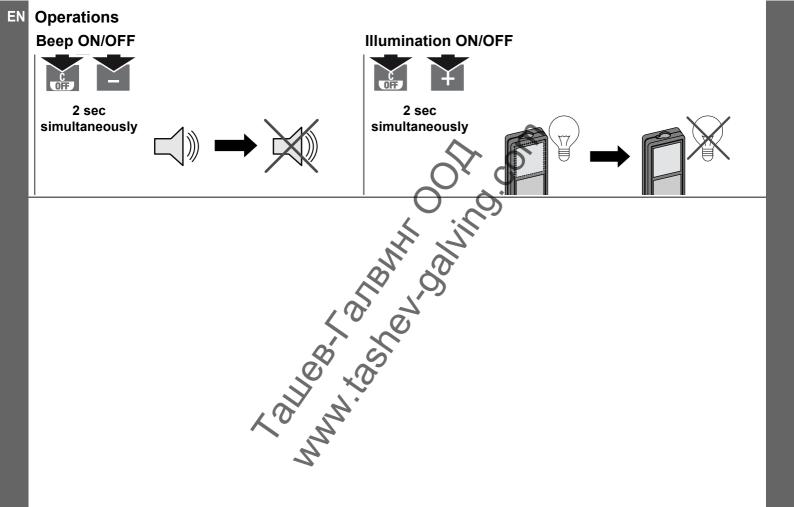
Instrument Set-up Display



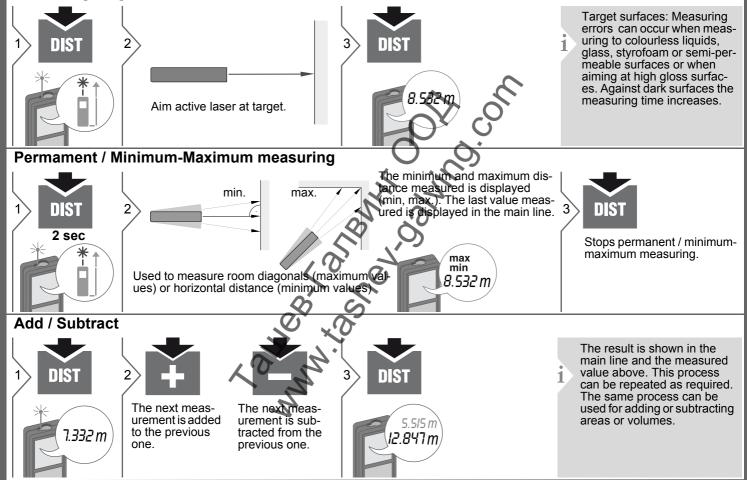
Insert batteries

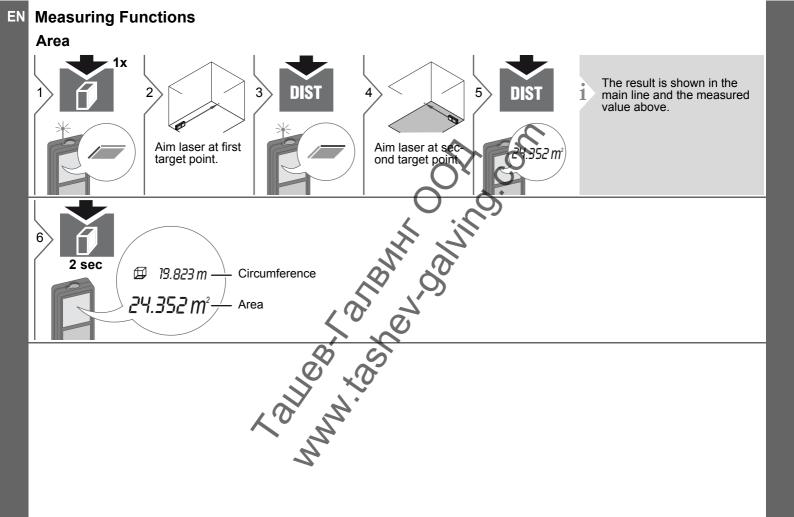






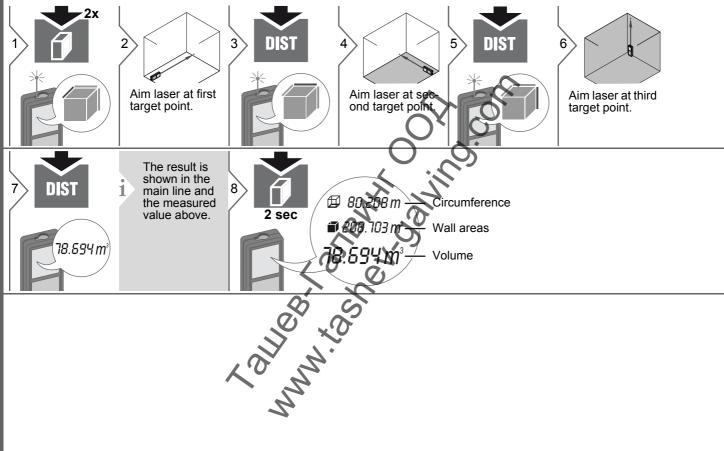
Measuring Functions Measuring single distance

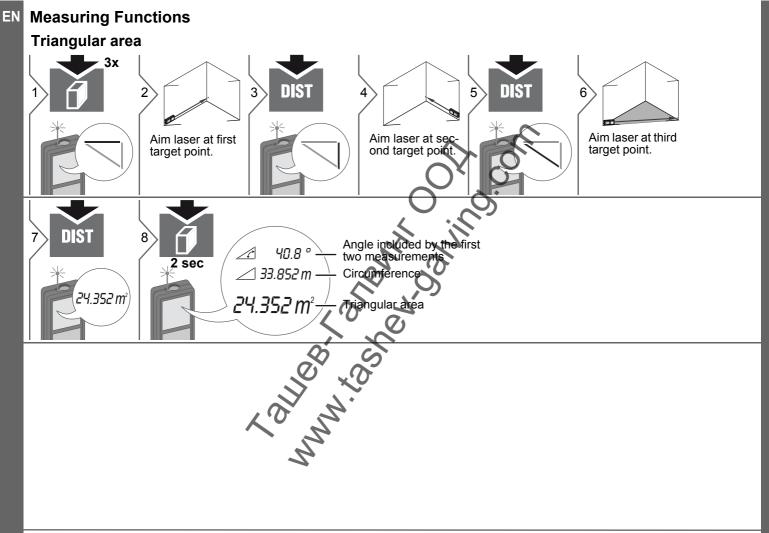


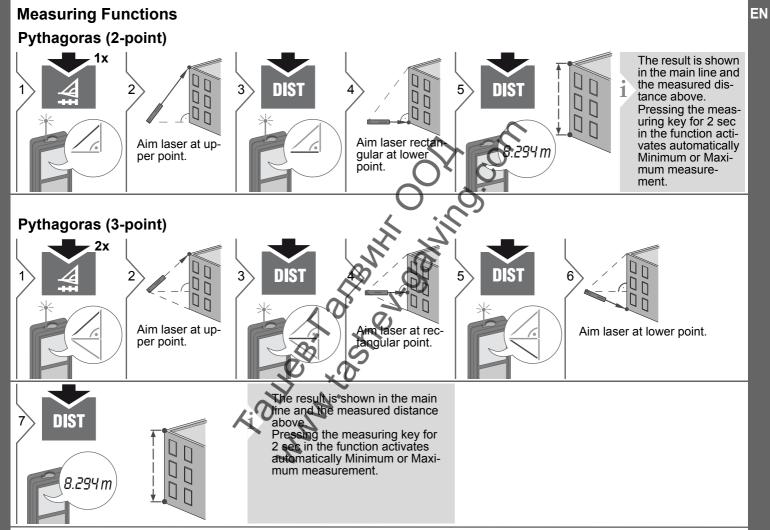


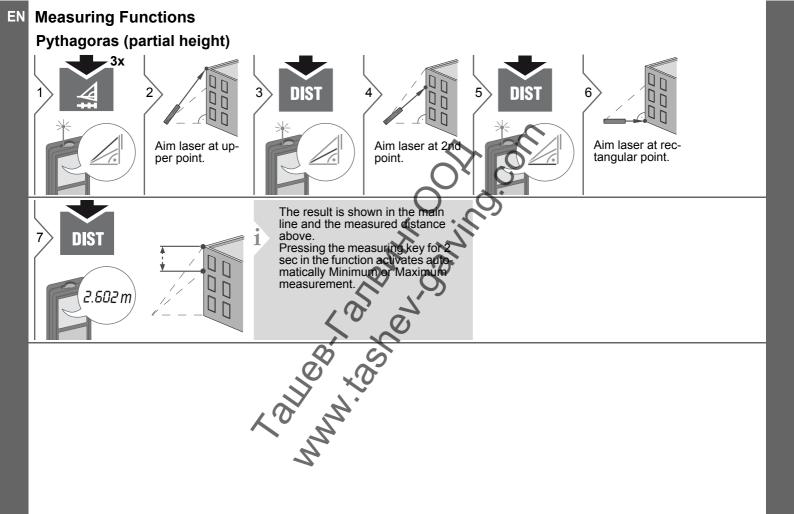
Measuring Functions

Volume





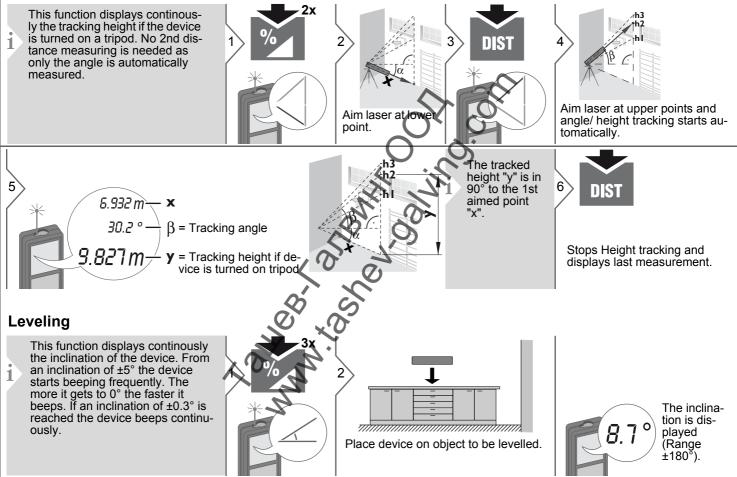




Measuring Functions Stake out

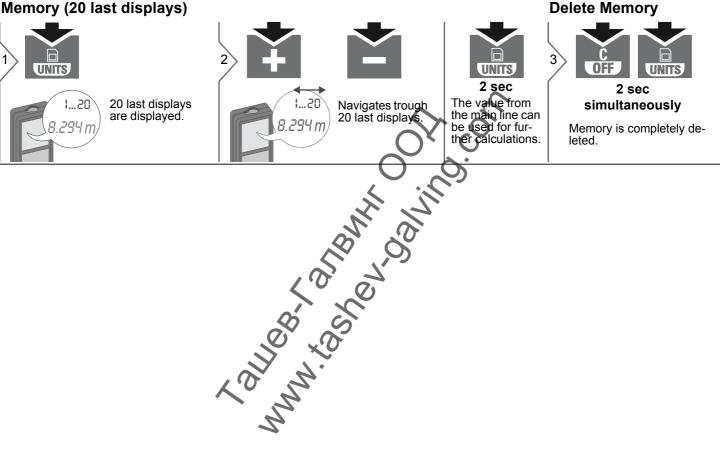
4x DIST 3 0.625 m 0.625 m Adjust value. Approve value and 0.625 m start measurement. 1.000 m, Move device When approaching a stake slowly along the out point to less than 0.1 m stake-out line. the instrument starts to The distance to beep. the next stake The function can be stopped by pressing the CLEAR/OFF out point is dis-0.240 m is missing played. button. 1.625m up to next 0.625 m distance. 5.5 Q. **Smart Horizontal Mode** 1x Press key again to switch off horizontal measure-*24.3* °→ α α \checkmark ment. ⊿ 0.032 m 🕂 **y** Z Aim laser at tar-4.827mget. (up to 360° and a transverse - Z tilt of ±10°)

EN Measuring Functions Height tracking



Dewalt DW03101

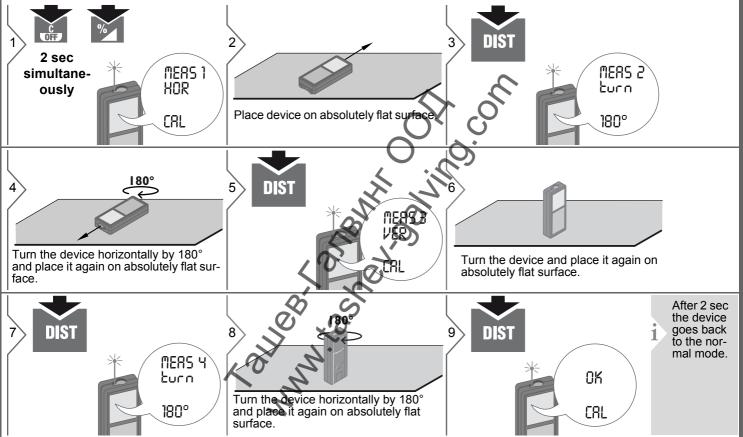
Measuring Functions Memory (20 last displays)



EN Ca

Calibration

Calibration of tilt sensor (Tilt Calibration)



Technical Data

Distance measurement		* applies for 100 % target reflectivity wall), low background illumination, 2	
Typical Measuring Tolerance*	± 1.0 mm / 0.04 in ***	** applies for 10 to 500 % target refle	
Maximum Measuring Toler- ance**	± 2.0 mm / 0.08 in ***	ground illumination, - 10 °C to + 50 ° *** Tolerances apply from 0.05 m to 2 dence level of 95%. The maximum to deteriorate to 0.1 mm/m between 10 0.2 mm/m for distances above 30 m **** applies for 100 % target reflectiv	
Range of target plate	100 m / 330 ft		
Typical Range*	80 m / 262 ft		
Range at unfavourable condi- tion ****	60 m / 197 ft		
Smallest unit displayed	0.1 mm / 1/32 in	illumination of approximately 30'000	
Ø laser point at distances	6 /30 / 60 mm (10 / 50 / 100 m)	***** after user calibration. Additiona deviation of +/- 0.01° per degree up	
Tilt measurement		quadrant. Applies at room temperatur operating temperature range the ma	
Measuring tolerance to laser beam*****	± 0.2°	increases by +/- 0.1°.	
Measuring tolerance to housing*****	± 0.2°	For accurate indirect res	
Range	360°	of a tripod is recommend accurate tilt measurement	
General		verse tilt should be avoi	
Laser class	2		
Laser type	635 nm, < 1 mW		
Beam divergence	0.16 x 0.6 mrad		
Impulse duration	0.2 x 10 ⁻⁹ s - 0.8 x 10 ⁻⁹ s		
Protection class	IP65 (dust- and splash water protected)		
Autom. laser switch off	after 90 s		
Autom. power switch-off	after 180 s		
Battery durability (2 x AAA)	up to 5000 measure- ments		
Dimension (H x D x W)	125.2 x 58 x 32.6 mm 4.9 x 2.3 x 1.3 in	0° 2°	
Weight (with batteries)	154 g / 5.43 oz	6	
Temperature range: - Storage - Operation	-25 to 70 °C -13 to 158 °F -10 to 50 °C 14 to 122 °F	4	
	17 10 122 1	1	

* applies for 100 % target reflectivity (white painted wall). low background illumination. 25 °C

** applies for 10 to 500 % target reflectivity, high background illumination. - 10 °C to + 50 °C

*** Tolerances apply from 0.05 m to 10 m with a confidence level of 95%. The maximum tolerance may deteriorate to 0.1 mm/m between 10 m to 30 m and to 0.2 mm/m for distances above 30 m

**** applies for 100 % target reflectivity, background illumination of approximately 30'000 lux

***** after user calibration. Additional angle related deviation of +/- 0.01° per degree up to +/-45° in each quadrant. Applies at room temperature. For the whole operating temperature range the maximum deviation increases by +/- 0.1°.

For accurate indirect results, the use of a tripod is recommended. For accurate tilt measurements a transverse tilt should be avoided.

yes
yes
2-point, 3-point, partial height
yes
yes
yes
20 displays
yes
yes
yes

EN Message Codes

If the message Error does not disappear after switching on the device repeatedly, contact the dealer.

If the message InFo appears with a number, press the Clear button and observe the following instructions:

No. Cause Correction Europe: Hold the instrument 156 Transverse tilt greater than 10° without any transverse tilt Calibration mistake 162 Make sure, the device is placed on a absolutely horizontal and flat surface. Repeat the calibration procedure. If the mistake still occurs. contact your dealer. 204 Perform measurement Calculation error again. -Oliver +O 252 Temperature too Let device cool down. high 253 Temperature too Warm device up. low 255 Received signal too Change target surface weak, measuring (e.g. white paper). time too lona 256 Received signal too Change target surface (e.g. white paper). hiah Too much back-257 Shadow target area. around light 258 Measurement Correct range. outside of measuring range 260 Laser beam inter-Repeat measurement. rupted

Care

- Clean the device with a damp, soft cloth.
- Never immerse the device in water.
- Never use aggressive cleaning agents or solvents.

Warranty

- · 30 day no risk satisfaction guarantee
- One year free service

 One year full warranty Detailed information are available on the internet at www.2helpU.com

North America:

- · Three year limited warranty
- One year free service

 90 day money back guarantee Detailed information are available on the internet at www.dewalt.com.

Safety Instructions

The person responsible for the instrument must ensure that all users understand these directions and adhere to them.

Areas of responsibility

Responsibilities of the manufacturer of the original equipment:

Europe: DEWALT D-65510 Idstein, Germany www.2helpU.com www.dewalt.eu

North America: DEWALT Industrial Tool Co. Baltimore, MD21286, USA For service call 1-800-4-DEWALT. www.dewalt.com

The company above is responsible for supplying the product, including the User Manual in a completely safe condition. The company above is not responsible for third party accessories.

Responsibilities of the person in charge of the instrument:

- · To understand the safety instructions on the product and the instructions in the User Manual.
- · To be familiar with local safety regulations relating to accident prevention.
- Always prevent access to the product by unauthorised personnel.

Safety Instructions

Permitted use

- · Measuring distances
- Tilt measurement

Prohibited use

- Using the product without instruction
- · Using outside the stated limits
- Deactivation of safety systems and removal of explanatory and hazard labels
- Opening of the equipment by using tools (screwdrivers, etc.)
- Carrying out modification or conversion of the product
- Use of accessories from other manufacturers without express approval
- Deliberate dazzling of third parties; also in the dark
- Inadequate safeguards at the surveying site (e.g. when measuring on roads, construction sites, etc.)
- Deliberate or irresponsible behaviour on scaffolding, when using ladders, when measuring near machines which are running or near parts of machines or installations which are unprotected
- Aiming directly in the sun

Hazards in use

Watch out for erroneous measurements if the instrument is defective or if it has been dropped or has been misused or modified. Carry out periodic test measurements. Particularly after the instrument has been subject to abnormal use, and before, during and after important measurements. Flat batteries mus household waste provided in accor bocal regulations. The product must household waste

Never attempt to repair the product yourself. In case of damage, contact a local dealer.

Changes or modifications not expressly approved could void the user's authority to operate the equipment.

Limits of use

environments.

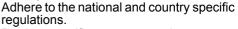
Refer to section "Technical data".

¹ The device is designed for use in areas permanently habitable by humans. Do not use the product in explosion hazardous areas or in aggressive Disposal

Flat batteries must not be disposed of with household waste. Care for the environment and take them to the collection points provided in accordance with national or local regulations.

The product must not be disposed with household waste.

Dispose of the product appropriately in accordance with the national regulations in force in your / country.



Product specific treatment and waste management can be downloaded from our homepage.

Electromagnetic Compatibility (EMC)

The device conforms to the most stringent requirements of the relevant standards and regulations.

Yet, the possibility of causing interference in other devices cannot be totally excluded.

EN Safety Instructions

FCC statement (applicable in U.S.)

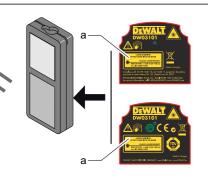
This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

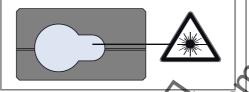
- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Laser classification

Labelling



Attach the laser sticker (a) of your country language.



The device produces visible laser beams, which are emitted from the instrument. It is a Class 2 laser product in accordance with:

 IEC60825-1 : 2007 "Radiation safety of laser products"

Laser Class 2 products:

Do not stare into the laser beam or direct it towards other people unnecessarily. Eye protection is normally afforded by aversion responses including the blink reflex.

Looking directly into the beam with optical aids (e.g. binoculars, telescopes) can be hazardous.

ooking into the laser beam may be hazardous to the eyes.