

Hand Held Laser Measurers



Leica DISTO™ A2

versus



Bosch DLE 50

Comparing the Leica DISTO™ A2 to the Bosch DLE 50, the differences are

1. Leica DISTO™ A2 - Magnesium Module Housing & Glass Optics

The DISTO™ A2 (like all DISTO™ units) is designed and constructed around a cast magnesium laser module housing. The magnesium housing is capable of maintaining a high degree of stability and reliability under environmental and temperature changes, essential for measurement accuracy. Also, it is capable of coping with arduous working conditions. Further, all DISTO™ units, including the A2, utilise glass optics for receiving the laser pulses reflected from the target, again for stability, reliability and accuracy of measuring.

Bosch DLE 50 - Plastic Module Housing & Plastic Lens

The DLE 50 is constructed around a plastic module housing in conjunction with a plastic lens. As plastic is prone to distortion, especially when subject to temperature change or demanding working conditions, any movement in the module housing or optics will adversely affect the instrument's reliability and accuracy.

2. The A2 measures up to 60 metres, compared to the 50 metres of the Bosch unit.
3. The A2 accuracy is within $\pm 1.5\text{mm}$, the precise accuracy of the DLE 50 is not quite so clear, with Bosch stating $\pm 5\text{mm}$ and also $\pm 1.5\text{mm}$.
4. The A2 measures in metric or imperial units with a choice of 4 options, the DLE 50 only measures in metres
5. The A2 has an illuminated display allowing easy reading of measurements in darkness or subdued lighting, the DLE 50 has no display illumination.
6. The A2 has an audible bleep, which confirms each key press, change of function and completion of the measurement process, the DLE 50 does not.
7. The A2 is switched on and the laser activated simultaneously, by one press of the ON/DIST button, the DLE 50 is less convenient, having a separate On/Off switch, the On button needing to be pressed prior to pressing the measurement button to activate the laser.
8. The A2 has a staking-out function for measurement of constant distances.
9. A2: Size: 124mm x 54mm x 35mm Weight: 155g
DLE 50: Size: 100mm x 58mm x 32mm Weight: 175g
10. The A2 uses a 9v (6LR61) battery giving a life of up to 5,000 measurements (approx. 6 to 8 months for the average user), the DLE 50 uses 4 x AAA batteries with a claimed life of up to 30,000 measurements.
11. The DLE 50 has a fold-out pin at the back of the unit for measuring from corners, the A2 does not.
Note: The DISTO™ A5 has a corner-to-corner measuring function with a fold-out multi-function end piece, the A5 being designed for the more involved measuring applications.
12. The DLE 50 has a basic Pythagoras function for calculating indirect measurements, the A2 has not.
Note: The DISTO™ A5 has a more practical and comprehensive Pythagoras function (3 versions) designed for outdoor use.
13. The DLE 50 has a tripod mounting thread, the A2 does not.
Note: The DISTO™ A5 is capable of tripod mounting, being specifically designed for long distance and outdoor measuring, incorporating an integrated telescopic viewfinder for easier targeting of the laser dot.