

# MD-500

Moisture - Density Analyzer



## ***Lighttells MD-500 Moisture and Density Analyzer***

**Instant** – Click and get results in 3 seconds

**Portable** – Compact design with aesthetic outlook and light weight for carry **Easy to Use** – Power On, load beans, click button, then you get the result.

**Data to PC** – Supports historical record upload to PC

**Calibration** – Standard Weights helps you get better density result

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## ***Why do you need a Moisture and Density Analyzer?***

1. Moisture analyzer saves money from water for you, because the weight of 14% moisture contains much water than 11% moisture in green bean. Density analyzer tells you the hardness of coffee bean.
2. For roasters, they need to know the moisture level in green coffee before roasting, so the roaster has a better idea of how to roast the coffee and how much shrinkage to expect.
3. Moisture analyzer helps you inspecting your storage environment by checking the moisture level of green and roasted beans. If the moisture is lower than its origin level you purchased, then it means your storage environment is too dry, then some of the flavor of green bean might have already emitted to the air. If the moisture is higher than its origin level you purchased, then it means your storage environment is too humid, unexpected material might enter to the beans. Overall, moisture influences the cupping quality seriously.

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## ***Product description***

The Lighttells MD-500 is a capacitance based moisture and density meter. It supports cherry, parchment, green beans and roasted beans measurement. Small form factor design allowing you to take it where ever you need to measure Coffee moisture and density. Simply fill coffee beans to the hopper, choose bean type, click measure button then you will see the result. Each Lighttells MD-500 has its unique Weights for weight calibration to get accurate density result. You can download all the history measuring record into your computer to store your results.

<h2>Features</h2>	
Accuracy	$\pm 0.5\%$ for moisture content and 1.2g/L for density
Repeatability	0.20% for moisture content
Measurement Range	1 to 40% mc depends on bean types
Operating environment	5 to 40 °C
Dimensions (main unit)	212(L) * 150(W) * 202(H) mm
Dimensions (funnel)	139(D) * 90(H) mm
Weight (main unit)	1050 g or 2.3 lb
Power supply	<ol style="list-style-type: none"> <li>1. Power adapter: 110V/220V to 5V</li> <li>2. 3.7V/2300 mAh Lithium battery</li> </ol>
Charging time (0% to 100%)	6.5 hours
Working hour	20 hours continuous working per fully charge
Sample cell	250ml Volume, 50 – 240g
Data output to PC	micro USB cable