

MD-500

User Manual



Product Introduction

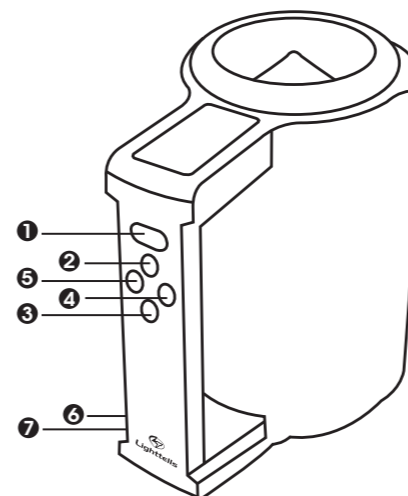
The MD-500 portable Moisture-Density Analyzer is designed to measure the moisture and density level for Green/Parchment/Cherry/Roast coffee beans before start roasting. It is portable, user-friendly, accurate and easy to use. It provides you quick and accurate moisture and density results. The results are automatically stored in the MD-500 internal memory and can be easily re-checked on display or load the database into your computer.

Package Contents

- MD-500main unit x 1
- MD-500 hopper x 1
- MD-500 hopper-plug(Weight) x 1
- 250ml measuring beaker x 1
- 5V Power Adapter x 1
- micro USB Power cable x 1
- Straightedge x 1
- Brush x 1
- User Manual with Limited Warranty Page x 1
- Product packaging

MD-500 Hardware

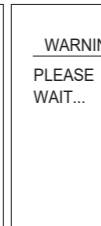
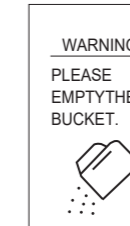
• Button names



- 1 [Power/Measure] Long press for 2 seconds to Power ON/OFF MD-500
Short press for measurement
- 2 [Up] Item select/Last record
- 3 [Down] Item select/Next record
- 4 [Enter] Select/OK
- 5 [Page] Press the [Page] key to switch different menu
- 6 [System Reset] Press the System Reset button by paperclip or pen point to reset system in case the system is crashed.
- 7 [Charging port]

MD-500 User Interface

• Power ON/OFF



Click on the [Power button] for two seconds to power on MD-500. A WARNING message will remind you to empty the bucket after powered on, please dump out the beans (if there are) inside the bucket before click [Enter] key. After entered to the main menu, you can load beans to the bucket for measuring moisture and density.

• Charging

Plug the power adapter to an AC 110/220 outlet, connect the micro USB cable between the power adapter and the micro USB port of MD-500. It takes up to 6 hours for fully charge from a complete drained battery. After full charged, the MD-500 could be able to continuous working up to 20 hours.

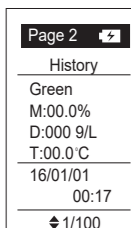
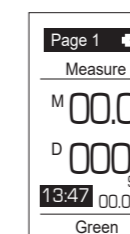
⚠ MD-500 might not be able to powering on when the battery is completely drained. Please connect the charger to MD-500 for few minutes in order to power on MD-500.

• Measure

Please fill up the beaker with sample, strike off flush using the ruler. Place the loading hopper on top of the measuring bowl, put the hopper-plug/Weight in the hopper, pour the sample to the hopper, click <Power/Measure> button to start measuring. A short beep sound will notify you when the measurement is done. The moisture and density result will display on the screen.

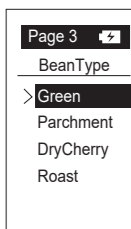
⚠ Please make sure the Bean Type on the screen is correct chosen before measuring.

⚠ If the test result showed "Err", the error message will show on the bottom of the panel. Please contact local agent or contact Lighttells.



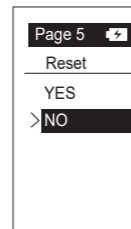
• History

Each measurement is automatically stored in MD-500. MD-500 can store up to 100 measurement records from the most recent to the oldest. Please use [Up/Down] button for record review. You may also load the records to your PC through USB cable. (Windows OS only)



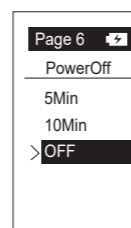
• Bean Type

Please use [Up/Down] button for select bean model before measurement. -Green -Parchment -Dry Cherry -Roasted Press [Enter] Key to confirm the BeanType



• Reset

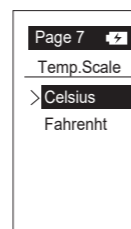
All the history records will be erased, the calendar/time and temperature scale will be reset to default setting.



• Power Off

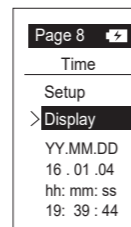
MD-500 will automatically turn off the power after idling a period of time. Selection: 5 min, 10 min and OFF. Default: 5 min Please use [Up/Down] button for selection. Press on [ENTER] key to confirm your choice.

⚠ MD-500 would turn off the power anytime when the power is in extremely low battery condition



• Temp. Scale

MD-500 supports two temperature scales: Fahrenheit and Celsius.



• Time

Setup: Please use [Up/Down] button for changing the number. Press on [ENTER] key for next field
Display: Current Calendar and time

• Warranty Information

This Limited Warranty applies to LIGHTTELLS product model name MD-500 purchased from an authorized LIGHTTELLS dealer by the original purchaser for normal use and not for resale. LIGHTTELLS warrants that a MD-500 product is free from defects in materials and workmanship, with the exceptions stated below.

This limited warranty lasts for 1 year from date of purchase, depending on when and where it was originally purchased. A valid proof of purchase may be required to prove eligibility. If you do not have a valid proof of purchase, the limited warranty period will be measured from the date of sale from LIGHTTELLS to the authorized distributor.

The limited warranty does not cover damage resulting from improper or unreasonable use or maintenance, misuse, accident, modification or alteration to hardware or software, tampering, unsuitable physical or operating environment beyond product specifications, or failure caused by a product for which LIGHTTELLS is not responsible. There is no warranty of uninterrupted or error-free operation. There is no warranty for product with removed or altered identification labels. LIGHTTELLS DOES NOT PROVIDE ANY OTHER WARRANTIES OF ANY KIND, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OR CONDITIONS OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. SOME JURISDICTIONS DO NOT ALLOW THE LIMITATION OF IMPLIED WARRANTIES, SO THIS LIMITATION MAY NOT APPLY TO YOU. LIGHTTELLS is not responsible for returning to you product which is not covered by this limited warranty.

Limited Warranty Card

Model Name: **MD-500 Coffee Moisture and Density Analyzer**

Serial Number: _____

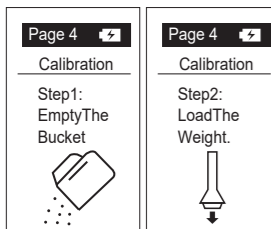
Date of Purchase: _____ YY

_____ MM _____ DD

Customer Name: _____

Customer Address: _____

Authorized Dealer Name / Stamp _____



• Calibration

Please follow the instruction for calibration: When you see the 1st screen, please make sure the bucket is empty, if there are beans or anything, please dump them out, put the MD-500 on table, then click [ENTER] key. When you see the 2nd screen, Place the hopper-plug(Weight) on the top of the inner pole of MD-500,click [Enter] to start calibration. A short beep sound will notify you after the calibration is done. If the calibration result shows "Fail!", please redo calibration.

