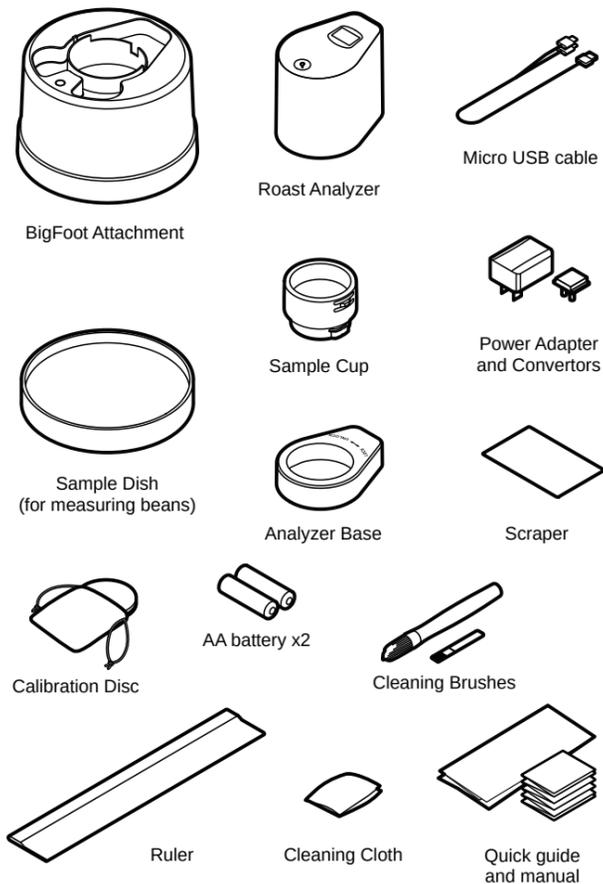


RA-710BF Coffee Roast Analyzer: BigFoot Edition Operation Manual

What's in the box

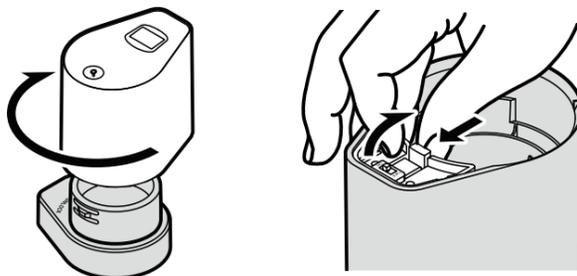


Specifications

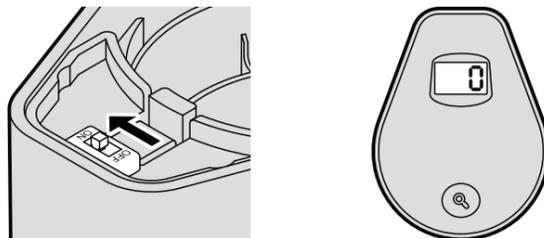
Display	3 digit LED display
Sensor	Near infrared
Measurement Level	15 ~ 150
Power Adapter	Output: 5VDC/1A Input: 200mA, 110~240VAC
Power Interface	Roast Analyzer: 2 AA batteries or Micro USB (5 Pin) (Power switch off) BigFoot Attachment: Micro USB (5 Pin)
Size & Weight	13" x 6.3" x 10.23", 4.4 lbs (Case included)
Operating Environment	Temp: 0~40°C, Humidity: <85% (No condensation)
Storage Environment	Temp: -5~40°C, Humidity: <85% (No condensation)
Certification	RoHS, CE, FCC

Installation and Boot up

1. Rotate the base to open the analyzer. Flip the analyzer over, push the tab on battery cover and pull up to remove it.



2. Insert 2 AA batteries, put on the cover, switch on the power. "0" will be displayed once the initiation is finished.

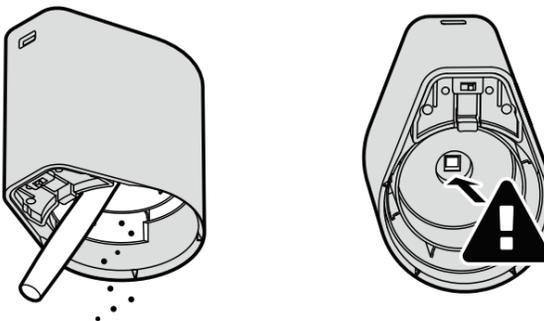


Cleaning

For best measurement results, clean the unit before storage.

Clean any dirt or coffee sample off the Analyzer by using the provided brush or by wiping with a clean cloth. Hold the analyzer upright when cleaning. To avoid damage and scratches, DO NOT touch the sensor lens during cleaning.

DO NOT rinse or wipe the Analyzer Body with water, alcohol or any chemicals. The Sample Cup can be washed with water. Dry thoroughly before use.



Measuring

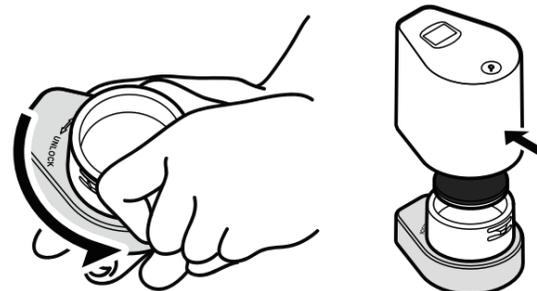
Refer to the quick instructions or watch the instruction videos at the links below:

Coffee beans: <http://www.roastrite.com/ug/ra-710bf/bean>
Coffee grounds: <http://www.roastrite.com/ug/ra-710bf/grounds>

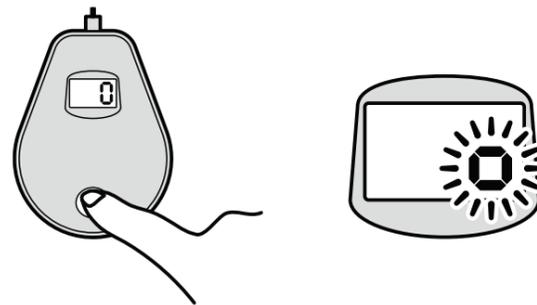
Calibration

Check out the "Cleaning" section to clean the analyzer first, then follow the steps below:

1. Rotate the base to open the analyzer.
2. Rotate the sample cup on the base counter-clockwise so the locking tab faces forward as shown below. Insert the calibration disc with black side up then place the analyzer on the base.



3. Hold the Measure Button for 5 seconds to begin the calibration. A flashing "□" indicates calibration in process, please wait for a few minutes.



4. Once the black side calibration is completed, "Ch" will be displayed. Lift up the Analyzer Body, flip the calibration disc with the white side up, place the Analyzer Body back on the base and press the button to continue.

5. After the white side calibration is completed, "End" will be displayed. If not, please refer to the "Display Messages" section.

Display Messages

No Display	Power off, or in Sleep Mode.
15-150	Coffee roast measurement. A higher number means a lighter roast.
15-150 Flashing	The last measurement before Sleep mode activated.
BLo	Low battery (replace the batteries).
888 Flashing	Very low battery (replace the batteries soon).
□ Flashing	Calibration in progress.
Ch	Change Disc side. Flip the Calibration Disc to white side up, then continue calibration process by pressing the Measure button.
End	Calibration completed.
H	The sample is out of highest measurement range.
L	The sample is out of lowest measurement range.
E00	Measurement failure. Clean the unit, reload the sample carefully, then try again. Contact customer service if the issue persists.
E01	Calibration failed. Check the serial numbers on the Analyzer and Calibration Disc.
E02	Black side calibration failed. The Calibration Disc may be dirty. Clean the disc then try again.
E03	White side calibration failed. The Calibration Disc may be dirty. Clean the disc then try again.
E04	Calibration timeout. The Analyzer and Calibration Disc may be dirty. Clean the disc then try again.

Troubleshooting

- Nothing is displayed on the LED panel after the button is pressed?
Check the batteries, make sure the polarity is correctly installed. Try running via USB power.
- When does the Analyzer need calibration?
Every Analyzer is factory calibrated and generally doesn't require calibration under normal usage. We suggest performing calibration only when measurements of the same batch of coffee show huge differences between results.
- The light on the BigFoot attachment doesn't turn on?
Double check all power and USB connections. Make sure the analyzer is firmly seated on the BigFoot attachment.
- Getting marginal errors in measurement.
Coffee roast analyzers are sensitive instruments, results can be influenced by many factors including users handling and filling procedures, sample height, surface levelness, grind sizes, even amount of silver skins. However, check the following if you are experience extreme and abnormal results:
 - Make sure the analyzer and all attachments are connected firmly together, and are placed on a leveled and flat surface.
 - The analyzer and the BigFoot attachment are clean.
 - The whole bean and ground samples are not overly filled.
 - Whole beans are filled evenly and have minimum gaps in between.
 - Use the same grinds of ground coffee. Cupping grind is recommended.
- Working fine in the beginning, but now getting the "E00" error.
Try cleaning the Analyzer and the BigFoot attachment. If this issue persists, contact your dealer or local customer service.

Serial Numbers

The Analyzer, the BigFoot attachment and calibration discs from the same package are paired and cannot be used with units from other packages. Record the serial numbers of your analyzer and calibration disc for future reference:

Analyzer Serial:
BigFoot Attachment Serial:
Calibration Disc Number:

Warranty

Your products comes with an ONE YEAR limited warranty under normal usage (Please contact your local dealers for details). The warranty starts at the date of purchase, if a valid invoice, receipt, or other sales documentation is presented. Without a proof of purchase, the warranty period is determined by the manufacture based on the manufacturing date and the serial number.

The limited warranty does not cover:

- User manual, packaging, batteries and any accessories.
- A product that is modified, repaired, or serviced by an unauthorized party.
- External causes such as accident, abuse, misuse, or problems with electrical power.
- Usage that is not correctly in accordance with instructions.
- Damage due to batteries including but not limited to battery leakage and explosion.
- Products with missing and/or incorrect serial numbers.

Contact

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