acaia

Acaia Lunar
User Manual

AL001 / AL006 / AL007

FW 2.6.020

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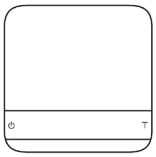
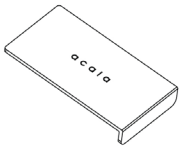
In the Box

Introduction

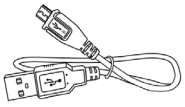
Thank you for choosing our scale. The Acaia Lunar is designed and manufactured to the most rigorous standard to give you the best coffee brewing experience. Start by checking that your Acaia Lunar box to find the following:



Acaia Lunar



Heat Resistant Pad



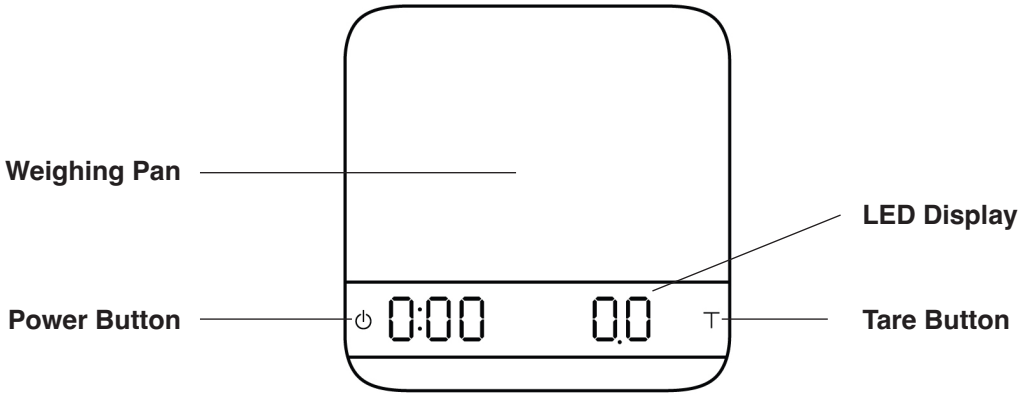
Micro USB Charger Cable

Acaia Calibration Weight 100 g

Next, follow the instructions in Getting Started to begin using your scale. To take full advantage of the Lunar's many features, carefully read through the manual, which contains step-by-step procedures, examples, and other information.

Warning: Incorrect handling of this product could result in personal injury or physical damage.

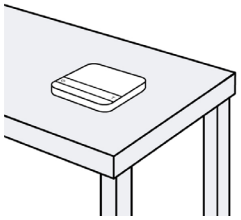
Scale Overview



***Note: For the best performance, place the weight in the center of the weighing pan.**

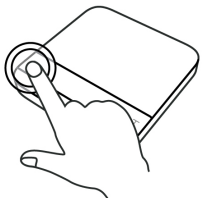
Getting Started

Placement



Place the scale on a stable and vibration-free surface at a preferably horizontal location.

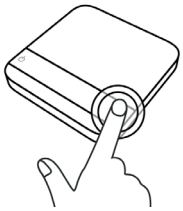
Power On/Off



[Press] ⏻ to turn on the scale.
[Double tap] ⏻ to turn off the scale.

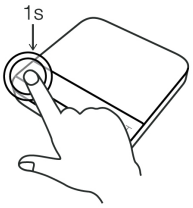
When P_OFF is set to 0.5 seconds, [Press] ⏻ for 0.5 seconds. When the stable indicator in the lower left corner begins to flash, release the ⏻ button to turn off the scale.

Tare Weight



[Press] ⊤ to tare/zero the weight.

Switch Mode



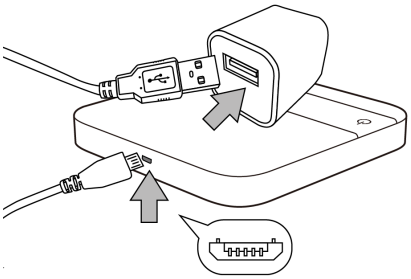
[Press and hold] ⏻ to switch modes.

* Please see the “Mode Introduction” section for more details.

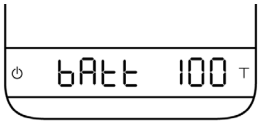
Product Care Information

Battery Charge

- You can charge the battery by plugging the USB cable into any of the power supplies listed below:
  - A computer
  - A USB wall-charger with an output of 5 volts and 1 amp
  - A DC car-charger with an output of 5 volts and 1 amp
- It takes about 1-2 hours to fully charge the battery from empty. Try not to let the battery completely run out before charging. Charge the battery as needed.

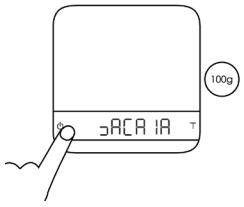


Battery Level Indicator



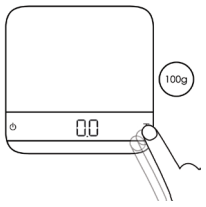
You can also check the battery level in the main settings menu. When the scale is powered off, press and hold the Power button, the LED display will show [ACAIA] and then changes to [SEt]. Continue holding the Power button until the battery percentage is displayed. You can also check the battery level by connecting the scale to Acaia Apps.

Calibration



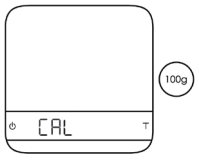
Turn on scale

Turn on the Acaia scale.



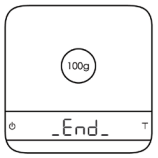
Tap T button

Make sure the scale is in weighing mode and the unit is set to ‘gram’, then tap the ‘T’ button rapidly.



See CAL display

Keep tapping the ‘T’ button until ‘CAL’ is shown on the display.



Place a weight

Place a weight on the scale and wait until the display shows ‘_End_’. Calibration is now complete!

Note: You may also use 500 g, 1000 g or 2000 g weights. If you use weights other than Acaia Weights, we recommend F2 class standard calibration weights.

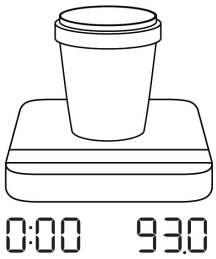
Care and Cleaning

- Use a soft cloth with warm water only to clean the product.
- Do not use detergent or other chemicals for cleaning and soaking as it can damage the anodized coating on the product.

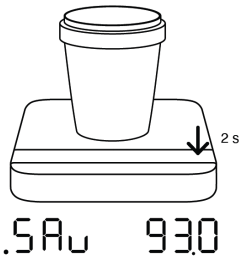
Tare Save

If you have a frequently used container in your weighing workflow, you can save the weight of the container using the Tare Save function. This will allow you to weigh the container with contents, then trigger Tare Save to deduct the container weight and obtain the net weight. The Tare Save function can be activated in Weighing mode and Dual Display Mode.

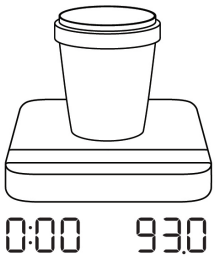
Save Container Weight



1 Place a container on the scale.

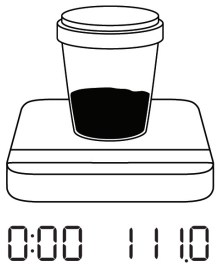


2 Press and hold Tare button for 2 seconds when reading is stable. The weight is stored as a preset container weight.

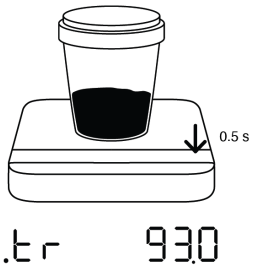


3 You may continue using your scale.

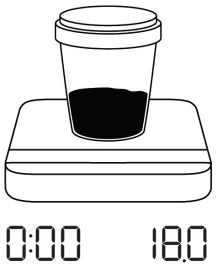
Tare Container Weight Using Tare Save



1 Place a container along with its contents on the scale.



2 Press and hold Tare button for 0.5 second. The scale will display the weight to be deducted.



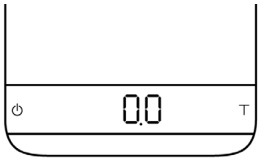
3 The net weight is displayed on the scale.

- To save a new container weight, place the desired container on the scale, then press and hold Tare button for 2 seconds. This will register a new preset container weight.
- It is only allowed to tare container weight once, if you press and hold Tare button for 0.5 second again, the scale will display [CUP] and the preset container weight, but the container weight will not be tared again.

Action	Operation
Save Container Weight	Press and hold Tare button for 2 seconds
Subtract Container Weight	Press and hold Tare button for 0.5 second

Mode Introduction

Mode 1 - Weighing Mode



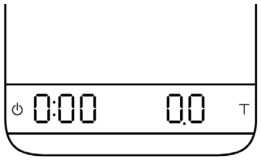
In the Weighing Mode, the scale will only display weight, in either grams or ounces.

- There are two different weighing units in Weighing Mode: gram and ounce. A dot will appear in the upper right of the LED display and the scale will read 0.000 when weighing in ounces.
- In grams, the LED display shows [0.0].
- In ounces, the LED display shows [0.000] and the Weighing In Ounces Indicator on the upper right lights up.
- The readability is 0.1 g or 0.002 oz. For high resolution mode, the readability is 0.01 g or 0.0005 oz.
- The Tare Save function is supported in this mode.

Action	Operation
Tare Weight	Tap Tare button
Switch Mode	Press and hold Power button

Note :
To change the weighing unit to either gram or ounce, please see Default Unit Setting in the Configuration section (p14).

Mode 2 - Dual Display Mode

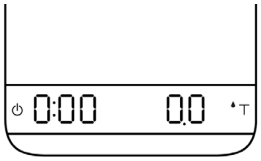


In the Dual Display Mode, the scale displays [0:00 0.0] with a timer (left) and weight (right).

- There are two different weighing units in Dual Display Mode: gram and ounce.
- In grams, the LED display shows [0:00 0.0].
- In ounces, the LED display shows [0:00 0.00].
- The timer displays from [0:00] to [9:59] and then stops.
- The Tare Save function is supported in this mode.

Action	Operation
Start/Stop/Reset Timer	Tap Power button
Tare Weight	Tap Tare button
Switch Mode	Press and hold Power button

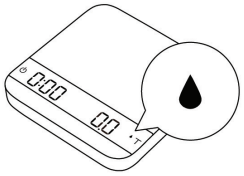
Mode 3 - Timer Starts with Flow Mode ( ) - Droplet



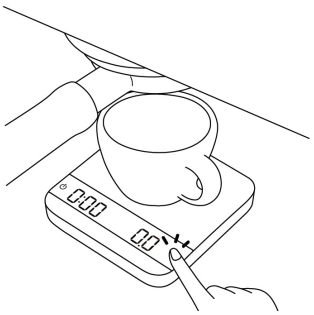
When the scale detects the flow of espresso, the timer starts. The timer will stop when the flow stops.
*Please note: The flow detection mode is designed to detect the slow trickle of a shot of espresso. The timer may not trigger when attempting to pour from a kettle.

Display

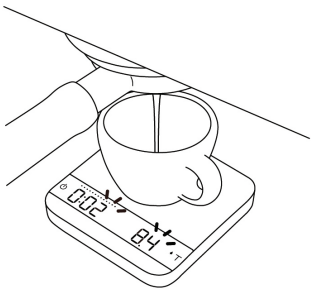
- In grams, the LED display shows [0:00 0.0].
- In ounces, the LED display shows [0:00 0.000.
- The timer displays from [0:00] to [9:59] and then stops.



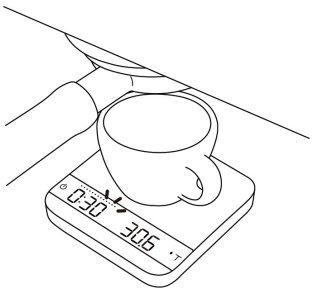
1 The droplet icon indicates that you are in Timer Starts with Flow Mode.



2 Placing a cup on the scale will display its weight.



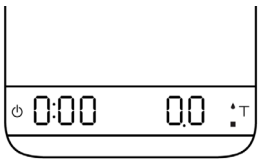
3 The timer starts when the flow of espresso is detected.



4 The timer will stop automatically when the espresso flow stops or the cup is removed.

Action	Operation
Start/Stop/Reset Timer	The timer will start when flow is detected
Tare Weight	Tap Tare button
Reset Mode	Double tap Tare button
Stop Timer	The timer will stop when flow is no longer detected
Reset Mode	Double tap Tare button
Switch Mode	Press and hold Power button

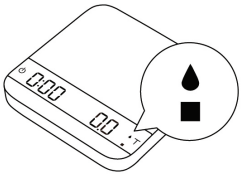
Mode 4 - Auto-Tare Timer Starts with Flow Mode (◆ ■) - Droplet and Square



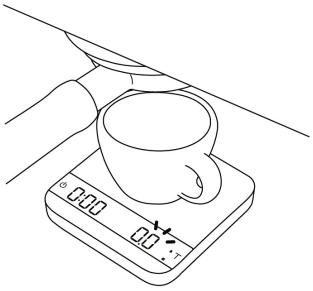
This mode is designed for baristas who would like to measure the time of the shot starting from the first few drops of espresso. When a stable weight is detected, the scale will perform the auto-tare operation. After the scale detects the espresso flow, the timer starts automatically. The timer will stop automatically when the espresso flow stops.

Display

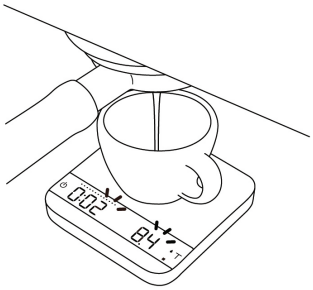
- In grams, the LED display shows [0:00 0.0].
- In ounces, the LED display shows [0:00 0.000].
- The timer displays from [0:00] to [9:59] and then stops.



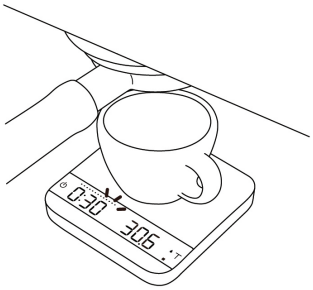
1 The droplet and square icon indicate that you are in Auto-Tare Timer Starts with Flow Mode.



2 Place a cup on the scale, and it will perform auto-tare.



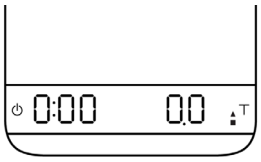
3 The timer starts when the flow of espresso is detected.



4 The timer will stop automatically when the espresso flow stops or the cup is removed.

Action	Operation
Start Timer	The timer will start when flow is detected
Tare Weight	Tare function starts when a table weight is placed on the scale
Stop Timer	The timer will stop when flow is no longer detected
Reset Mode	Double tap Tare button
Switch Mode	Press and hold Power button

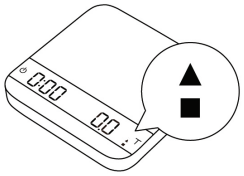
Mode 5 - Auto-Tare Auto-Start Timer Mode (▲■) - Triangle and Square



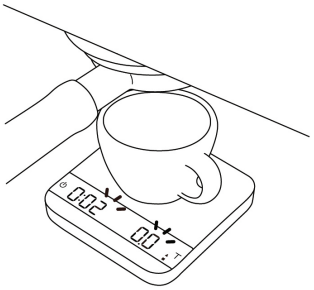
This mode is for baristas to measure the total time of a shot including the pre-infusion time. After a cup is placed on the scale and the weight reading is stable , the scale performs auto-tare and starts the timer.

Display

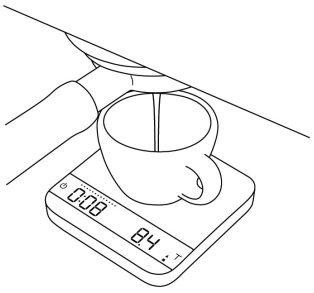
- In grams, the LED display shows [0:00 0.0].
- In ounces, the LED display shows [0:00 0.000].
- The timer displays from [0:00] to [9:59] and then stops.



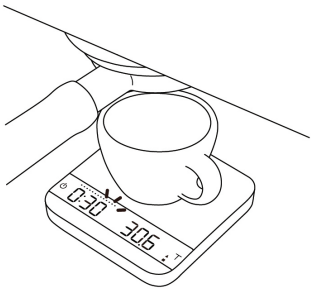
1 The triangle and square icon indicate that you are in Auto-Tare Auto-Start Timer Mode.



2 Place a cup on the scale. The scale will perform auto-tare and start the timer.



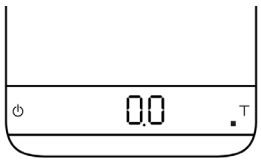
3 Scale will measure the total time of a shot including the pre-infusion time.



4 The timer will stop automatically when the espresso flow stops or the cup is removed.

Action	Operation
Start Timer	The timer will start when a stable weight is placed on the scale
Tare Weight	Tare function starts when a stable weight is placed on the scale
Stop Timer	The timer will stop when flow is no longer detected
Reset Mode	Double tap Tare button
Switch Mode	Press and hold Power button

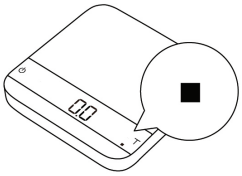
Mode 6 - Auto-Tare Mode (■) - Square



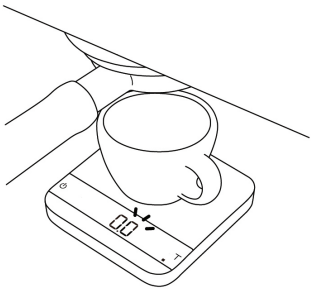
In this mode, the scale will only perform auto-tare. Put a cup on the scale and auto-tare will be performed.
Pull the shot of espresso as you normally would. When the cup is removed from the scale, the espresso brewing summary will be displayed.

Display

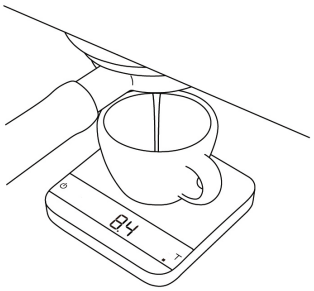
- In grams, the LED display shows [0.0].
- In ounces, the LED display shows [0.000].



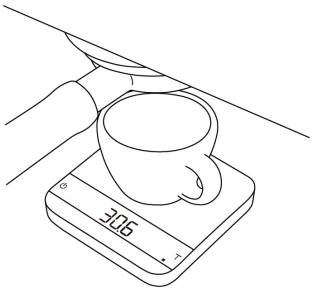
1 The square icon indicates that you are in Auto-Tare Mode.



2 Place a cup on the scale for auto-tare.



3 Start brewing.

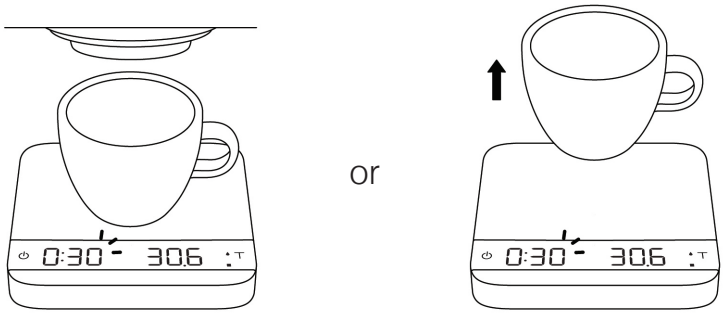


4 The final beverage weight will be displayed when brewing is complete.

Action	Operation
Tare Weight	Tare function is performed when a stable weight is placed on the scale
Reset Mode	Double tap Tare button
Switch Mode	Press and hold Power button

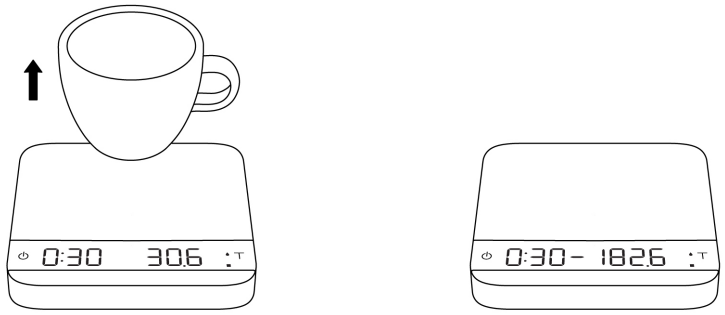
Timer Auto Stop

In all three Auto-Start Modes (Timer Starts With Flow Mode, Auto-Tare Timer Starts With Flow Mode and Auto-Tare Auto-Start Timer Mode), the timer will stop when the espresso flow stops or when the cup is removed from the scale.



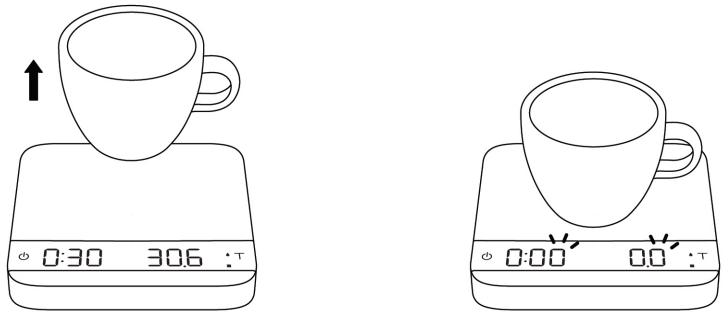
Espresso Brewing Summary

In all Auto Modes (including Auto-Tare Mode), when brewing is complete and the cup is removed from the scale, the display will flash to show the final beverage weight of the brewing.



Auto-Reset

If the scale remains idle for 30 seconds, it will reset the timer and perform the tare operation. This feature is ideal for streamlining bar workflow. The scale automatically resets after the cup has been removed, eliminating the need for pressing buttons.



Configuration

Enter Settings

1. With the Lunar powered off, press and hold the Power button. When the LED display shows [ACAIA] and then changes to [SEt], release the Power button.
2. Tap T button to enter Settings. The first setting is [SLEEP].
3. Please refer to the following table for key operations

Action	Operation
Next Setting	Tap Tare button
Enter Setting	Press and hold Tare button
Toggle Options	Tap Tare button
Save Option	Press and hold Tare button
Back to Menu Without Saving	Tap Power button
Exit Settings and Return to Modes	Tap Power button

Settings Menu

Setting	Display	Sub-Menu Options	Default
Sleep Timer	SLEEP	5, 10 ,20, 30, 60, Off	5
Battery Saving	bAttSAvE	30, 90, 180, Off	90
Default Weighing Unit	Unit	Gram, Ounce	Gram
Key Sound	bEEP	OFF, 1, 2, 3	1
Weighing Mode	NodE_1	On, Off	On
Dual Display Mode	NodE_2	On, Off	On
Timer Starts with Flow Mode	NodE_3	On, Off	On
Auto-Tare Timer Starts with Flow Mode	NodE_4	On, Off	On
Auto-Tare Auto-Start Timer Mode	NodE_5	On, Off	On
Auto-Tare Mode	NodE_6	On, Off	On
Auto-Reset	Auto_rES	Off, 10, 30	30
Pre-infusion Timeout	PrE_inFu	10, 30, 60, 120	60
Power Off	P_OFF	dEFAUL, 0.5	dEFAUL
Auto-Start Sensitivity	SEnSE	0.1 g, 0.2 g, Off	Off
Weighing Resolution Setting	rESoL	hiGh, dEFAUL	dEFAUL
Weighing Filter	Filt	2, 4, 6, 8, 16, 32, 64, 128	16
Zero Tracking	trAcE	0.5 d, 1 d, 2 d, 3 d, Off	1 d
Bluetooth On/Off	bt_SEt	On, Off	On
Reset to Default	rESEt.d	No, Yes	No

Sleep Timer Setting [SLEEP]

1. Sleep Timer settings can also be configured in the Acaia apps.
2. The number indicates the amount of time before the scale automatically powers off. For example, when 10 is selected, the scale powers off after 10 minutes of being idle if the scale is disconnected from all mobile devices.

Battery Saving [bAttSAvE]

1. Save up to 20% of your battery by dimming the display after some time. It will return to its original brightness when the scale detects objects on it.
2. The number indicates the amount of time in seconds before the scale enters battery saving mode.
3. Tap the tare button to toggle through the options.

Default Unit Setting [Unit]

The Default Weighing Unit is set to grams if [9] is selected and ounce if [o2] is selected.

Key Sound Setting [bEEP]

1. The default setting is 2.
2. Customize your Lunar scale with adjustable beep volume settings. Choose from Off, 1, 2, or 3 (3 being the greatest volume).
3. Key Sound settings can also be configured in the Acaia apps.

Weighing Only Mode Setting [NoDE_1]

1. The default setting is On.
   - On: Mode enabled.
   - Off: Mode disabled.

Dual Display Mode Setting [NodE_2]

1. The default setting is On.
   - On: Mode enabled.
   - Off: Mode disabled.

Timer Starts with Flow Mode ⧫ Setting [NodE_3]

The default setting is On.
- On: Mode enabled.
- Off: Mode disabled.

Auto-Tare Timer Starts with Flow Mode ⧫■ Setting [NodE_4]

The default setting is On.
- On: Mode enabled.
- Off: Mode disabled.

Auto-Tare Auto-Start Timer Mode ▲■ Setting [NodE_5]

The default setting is On.
- On: Mode enabled.
- Off: Mode disabled.

Auto-Tare Mode ■ Setting [NodE_6]

The default setting is On.
- On: Mode enabled.
- Off: Mode disabled.

Auto-Reset [Auto_rES]

1. After a cup is removed, the timer will automatically reset. This setting gives you options on how long to wait for the reset. It enables the user to pull successive shots of espresso quickly in the three Auto-Start modes.
2. The number indicates the timeout value in seconds of timer reset after a cup is removed.

Pre-Infusion Time Out [PrE_inFu]

1. Determines when the scale times out in Auto-Start (▲) mode and two Auto-Start (⬮) modes when the timer is manually started. This is most useful for long pre-infusion times and resolves the timeout that sometimes happens for slower pre-infusions.
2. The number indicates the time in seconds it will take for the scale to reset if no espresso flow or weight is detected.

Power Off Setting [P_OFF]

1. Default: The default method to turn off the scale is by double-tapping the Power button.
2. 0.5: Press and hold the power button for 0.5 seconds and the flow-rate indicator begins to flash. Then release the Power button and the scale will be turned off. To toggle between different modes when in this setting, [Press] and hold the Power button for 2 seconds.

Auto-Start Sensitivity [SEnSE]

1. Minimum weight is decreased for more sensitivity. This is ideal for slower espresso shots in the ⬮ modes. Stability depends on environmental noise. The previous firmware started the timer at ~0.6 g into an espresso shot.
2. The number indicates the sensitivity of flow detection in the ⬮ modes. A smaller value indicates higher sensitivity, but is recommended only for stable working environments.

Weighing Resolution Setting [rESoL]

1. The default Weighing Resolution is set to [dEFAUL]: the division is 0.1 g/0.002 oz.
2. Tap tare button to switch the Weighing Resolution between [dEFAUL] and [hiGh].
3. When the Weighing Resolution is set to high, division will be 0.01 g/0.0005 oz. The default display will show [0.00] when the scale is set to grams, and [0.0000] for ounces in Weighing Mode.

Note: After setting Weighing Resolution to high, the default display will show [0:00 0.00] with timer in Dual Display Mode and Auto Start Modes.

Weighing Filter Setting [Filt]

1.The Weighing Filter Setting determines the speed at which the load receptor responds to weight and determines the weighing value. The larger the number, the more stable but slower the weighing result will be. The number shown on the LED display indicates the current filter setting.
2. Press tare button to change the parameter.

Zero Tracking Setting [trAcE]

1. Zero Tracking is a function for automatically maintaining the zero indication within certain limits.
2. Off: It is not recommended to turn off Zero Tracking because the zero indication can drift easily as the room temperature changes.
3. 0.5 d~3 d: For example, for standard resolution each division is 0.1 g, 3 d = 0.3 g. When Zero Tracking is set to be 3 d, any initial weight between ± 0.3 g on the weighing pan will be zeroed out gradually.
4. 2 d is recommended in general for the Acaia Lunar.

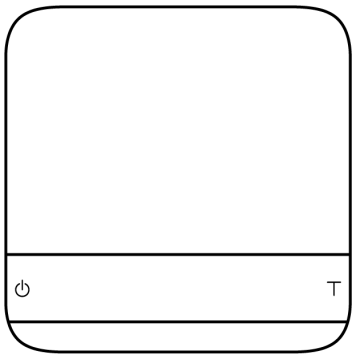
Bluetooth Setup Setting [bt_SEt]

1. Off: Bluetooth disabled. The scale does not allow any Bluetooth connection.
2. On: Bluetooth enabled. The scale allows Bluetooth connection. The user may connect the scale with Acaia apps.

Reset to Default Setting [rESEt.d]

1. Select [YES] to reset all settings to default value.
2. Press and hold tare button for 1 second until [SLEEP] is shown on the LED to reset all settings to default.

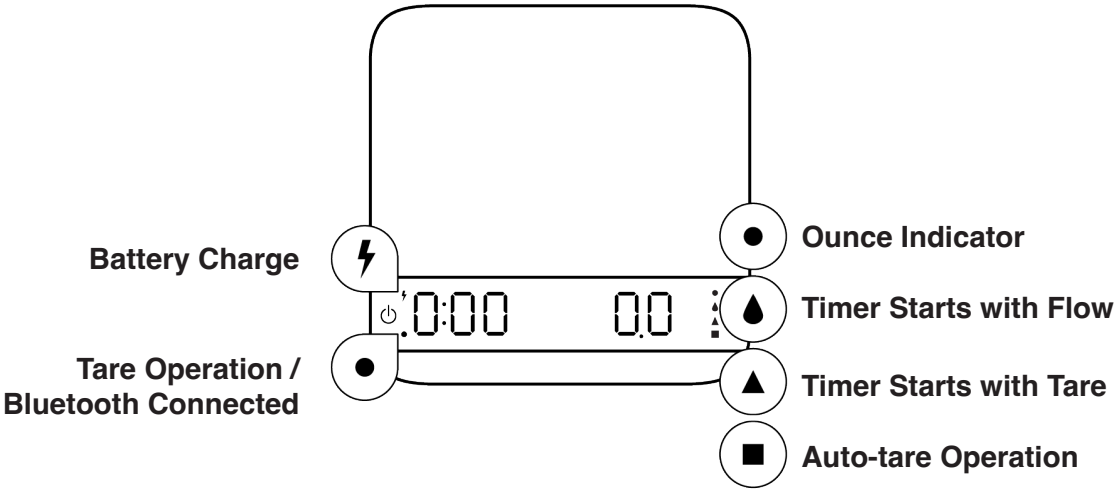
Appendix



Buttons

	Function	Example
Power Button	Turn on	Press and hold for 0.5 seconds to turn on the scale.
	Turn off	1. Double-tap to turn off the scale. 2. When P_OFF is set to 0.5 seconds, [Press] Power for 0.5 seconds. When you see the flow rate indicator begins to flash, release the Power button to turn off the scale.
	Switch mode	1. While the scale is turned on, press and hold for one second to switch modes. 2. When P_OFF is set to 0.5 seconds, [Press] and hold Power button for 2 seconds to switch modes.
	Start/stop/reset timer	Tap to start/stop/reset timer.
	Back	While in Settings Menu, tap to go back to Modes.
Tare Button	Tare	Tap to perform tare operation.
	Tare and reset timer	While in Auto-Start Modes, double tap to zero weight and reset timer.
	Save / Subtract	Press and hold for 2 seconds to save the container weight. Press and hold for 0.5 second
	Switch option	While in Settings, tap to advance through sub-menus. While in sub-menus, tap to toggle options.
	Confirm	While in Settings, press and hold for two seconds to confirm the option selected in a sub-menu.
	Enter Calibration Mode	While in Weighing Mode, rapidly tap to enter Calibration Mode.

LED Indicators



Battery Charge/Charge Error
The orange indicator on the upper left turns on when the battery is charging and turns off when the battery is fully charged. The indicator starts flashing or does not appear when the USB cable malfunctions.

Tare Operation/Bluetooth Connected
The orange indicator on the lower left turns on when the Tare button is pressed.

Ounce Indicator
The orange indicator on the upper right turns on when the weighing unit is in ounces.

Timer Starts with Flow (●)
When the scale detects the flow of espresso, the timer starts. The timer will stop when the flow stops.
*Please note: The flow detection mode is designed to detect the flow of espresso. The timer may not trigger when attempting to pour from a kettle.

Timer Starts with Tare (▲)
The scale performs auto-tare and simultaneously starts the timer when a stable weight is placed on the weighing pan.

Auto-Tare Operation (■)
The scale performs auto-tare when a stable weight is placed on the weighing pan.

Firmware Update

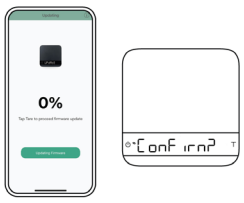
To update the firmware, please do the following:

1 Use the Acaia Updater app to learn about the latest firmware releases and updates for the Lunar.

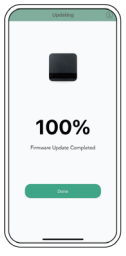
2 In the Acaia Updater app, select Lunar (AL001/AL006/AL007). The app will download the latest available firmware. Select Next once complete.

3 Place your phone close to your Acaia product and tap Connect.

4 Your app will let you know your current firmware and prompt you to press Next.



5 Your Lunar scale will display “Confirm?” and tap T to confirm and your app will begin the firmware transfer.



6 Once your firmware update is complete, your screen will display a Done button and the Lunar scale will power off. Turn on the scale and now you’re all set to get back to brewing!

Error Codes

Error Code	Description
100	Access Code Error, unrecognized access code.
101	EEPROM error, unable to access memory. Please contact Acaia support.
102	AD error, unable to access weighing signal. Please contact Acaia support.
303	Unable to find acceptable starting Zero point, most likely due to loadcell damage caused by excessive force or drop. Please contact Acaia support.
⌐¯¯¬	Over load: the weight is over the maximum capacity.
L__J	Under load: the weight is under the minimum capacity.
304	Calibration error. Calibration cannot proceed when environmental noises are too strong. Please calibrate in a stable environment free of wind, vibration, etc.
904	Password error (the default password is 0000).
_H2O	Water in the power button.
H2O_	Water in the tare button.
_H2O_	Water in the power button and tare button.

Other

Display Code	Description
UPdAtE	The scale is in update mode. **Note: If you want to leave update mode, please connect the scale's USB to a power source.**

Specifications

Model	AL001 / AL006 / AL007
Product Weight	265 g ± 5 g
Product Dimensions	W: 105 mm L: 105 mm H: 15 mm
Maximum Capacity	2000 g / 70.55 oz
Minimum Weight	0.1 g
Measuring Units	gram, ounce
Readability	0.1 g
Repeatability	0.1 g
Linearity	1 d (d = 0.1 g)
Indication Limit	2060 g / 72.66 oz
Power Supply	5 V / 500 mA
Battery	Lithium-ion rechargeable 3.7 V 1100 mAh
Battery Life	Up to 27 hours
Display	8-digit LED
Material	Aluminum, Acrylic
Surface	Anodized aluminum coating (Black / Silver) Hydrophobic ceramic coating (White)
Connectivity	Bluetooth 4.0
Inside the Package	Acaia Lunar Coffee Scale x 1 Heat Resistant Pad x 1 Micro USB Charging Cable x 1 Acaia Calibration Weight 100 g x 1

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