









acaia



Acaia Lunar User Manual

AL008 / AL009 / AL010 / AL012 / AL013

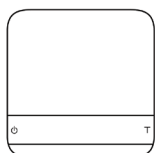
Contents

3	In the Box
3	Introduction
3	Scale Overview
4	Getting Started
4	Placement
4	Power On/Off
4	Tare Weight
4	Switch Mode
5	Product Care Information
5	Battery Charge
5	Battery Level Indicator
5	Calibration
5	Care and Cleaning
6	Flow-Rate Indicator
7	Brewing with Flow-Rate Indicator
8	Tare Save
9	Mode Introduction
9	Mode 1 - Weighing Mode
9	Mode 2 - Dual Display Mode
10	Mode 3 - Timer Starts with Flow Mode 
11	Mode 4 - Auto-Tare Timer Starts with Flow Mode  
12	Mode 5 - Auto-Tare Auto-Start Timer Mode  
13	Mode 6 - Auto-Tare Mode 
14	Mode 7 - Pour Over Auto-Start Timer Mode  
16	Configuration
21	Appendix
21	Buttons
22	LED Indicators
23	Firmware Update
24	Error Codes
24	Other
25	Specifications

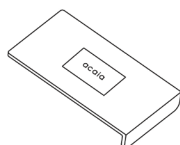
In the Box

Introduction

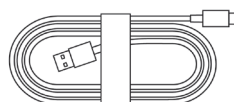
Thank you for choosing our scale. The Acaia Lunar is designed and manufactured to the most rigorous standard to give you the best coffee brewing experience. Start by checking your Acaia Lunar box to find the following:



Acaia Lunar



Heat Resistant Pad



**USB Type-C
Charger Cable**

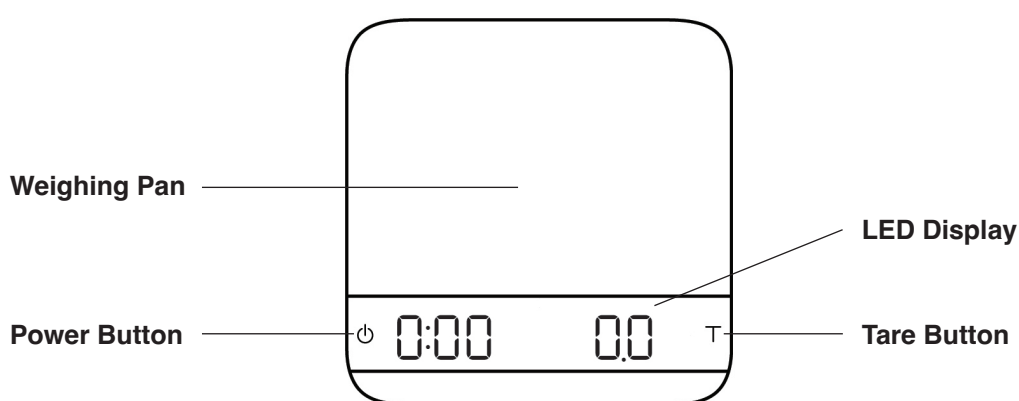


**Acaia Calibration
Weight 100 g**

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.

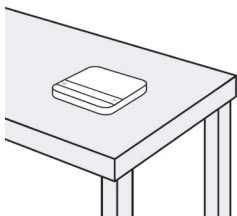
Scale Overview



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

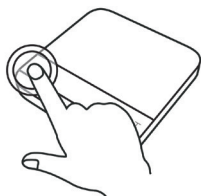
Getting Started



Placement



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

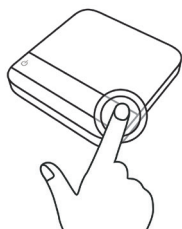
Power On/Off



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

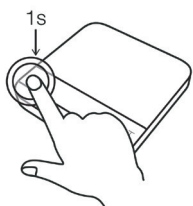
When P_OFF is set to 0.5 seconds, [Press] Power for 0.5 seconds.
When the flow rate indicator begins to flash, release the Power button to turn off the scale.

Tare Weight



[Press]  to tare/zero the weight.

Switch Mode



[Press and hold]  to switch modes.

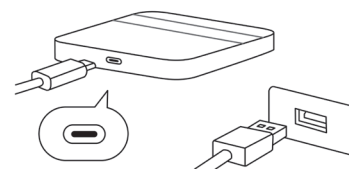
When P_OFF is set to 0.5 seconds, [Press] and hold Power button for 2 seconds to switch modes.

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

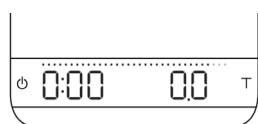
Product Care Information

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 as needed.



Battery Level Indicator



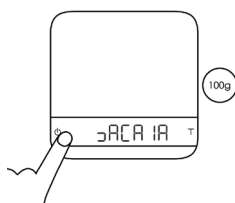
When powering off



When accessing settings

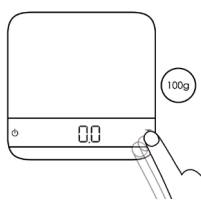
- When powering off the scale, the battery level shows on the display.
- You can also check the battery level in the main settings menu. When the scale is powered off, press and hold the Power button, the LED display will show [ACAIA] and then changes to [SET]. Continue holding the Power button until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

Calibration



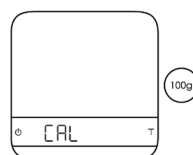
Turn on scale

Turn on the Acaia scale.



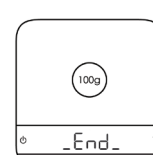
Tap T button

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!

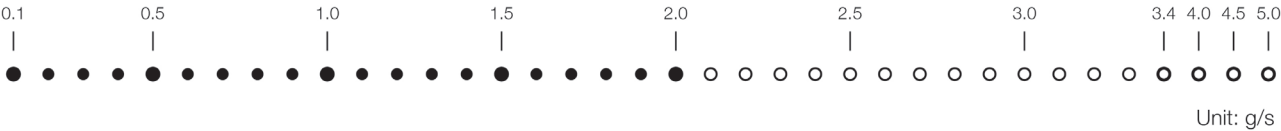
Note: You may also use 500 g, 1000 g or 2000 g weights. If you use weights other than Acaia Weights, we recommend F2 class standard calibration weights.

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.

Flow-Rate Indicator

Espresso Flow-Rate

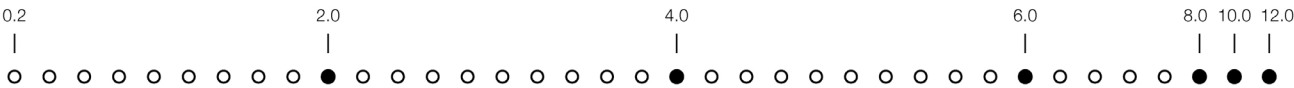


The Flow-Rate Indicator is an LED bar on the top of the display. It helps you visualize your espresso flow-rate in real time and spot channeling during brewing.

In Mode 1 to Mode 6, the indicator measures espresso flow-rate with lit LEDs starting from 0.1 g/s on the left to 3.4 g per second on the right. When the flow-rate exceeds 5.0 g/s, the last three LEDs lights up with enhanced brightness, indicating a high flow-rate. During an espresso brew, the Flow-Rate Indicator will display the highest peak flow-rate of this brew with a single bright LED.

Enable markings on the Flow-Rate Indicator for easier reading of the flow-rate value. Each marking indicates an increment of 0.5 g/s for the current flow-rate, and the highest marking is 4.0 g/s.

Pour Over Flow-Rate



In Mode 7 (Pour Over Auto-Start Timer Mode), the Flow-Rate Indicator helps you visualize your pouring speed in real time and suggests thresholds for ideal flow rates. The indicator measures flow rates with lit LEDs starting from 0.2 g/s on the left to 4.0 g/s on the right. When the flow-rate exceeds 12.0 g/s, the last three LEDs lights up with enhanced brightness. This indicates a high flow rate.

Enable markings on the Flow-Rate Indicator for easier reading of the flow-rate value. Each marking indicates an increment of 2.0 g/s for the current flow-rate, and the highest marking is 8.0 g/s.

Note: To enable this function, please see Flow-Rate Indicator in the Configuration section (p.19). Set the Flow-Rate indicator to Grad.

Brewing with Flow-Rate Indicator



0:00 0.0 :

Place a cup on the scale to start brewing.



The highest peak & Real flow-rate ↓
0:10 20.0 :

During an espresso brew, the Flow-Rate Indicator will display the highest peak flow-rate of this brew with a single bright LED.



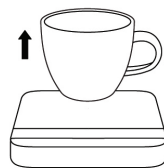
Real flow-rate ↓ ↓ The highest peak flow-rate
0:20 35.0 :

The highest peak flow-rate LED will stay on the display during an espresso brew.



↓ The highest peak flow-rate
0:25 40.0 :

When brewing is completed, the highest peak flow-rate LED will stay on the display.



↓ The highest peak flow-rate
0:25 40.0 :
Average flow-rate ↓ ↓ The highest peak flow-rate
FL0 1.1 :

When brewing is completed and the cup is removed from the scale, the display will flash to show the final beverage weight and the average flow-rate of the brewing. The Flow-Rate Indicator will show the average flow-rate with a stripe LED and the highest peak flow-rate with a single bright LED.

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.

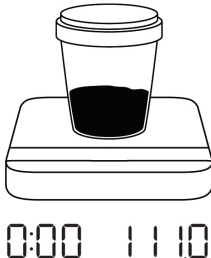


2 Press and hold Tare button for 2 seconds when reading is stable. The weight is stored as a preset container weight.

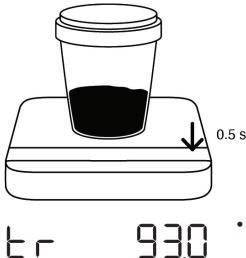


3 You may continue using your scale.

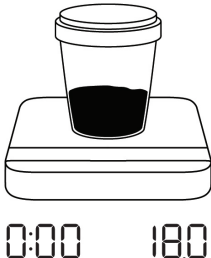
Tare Container Weight Using Tare Save



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.



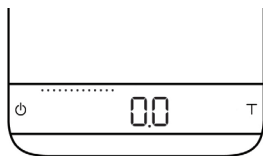
3 The net weight is displayed on the scale.

- 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.

Display

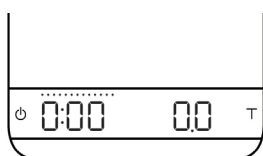
- In grams, the LED display shows [0.0].
- In ounces, the LED display shows [0.000] and the Weighing In Ounces Indicator on the bottom left lights up.
- The readability is 0.1 g or 0.002 oz. In high resolution mode, the readability is 0.01 g or 0.0005 oz.
- The Tare Save function is supported in this 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 (p. 15).

Mode 2 - Dual Display Mode



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

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.
- 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

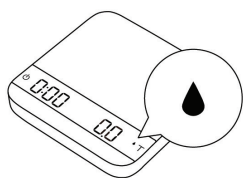


When the scale detects the flow of espresso, the timer starts. The timer will stop when the flow stops.

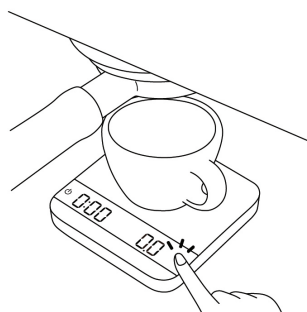
*Please note: The flow detection mode is designed to detect the slow trickle of a shot of espresso. The timer may not trigger when attempting to pour from a kettle.

Display

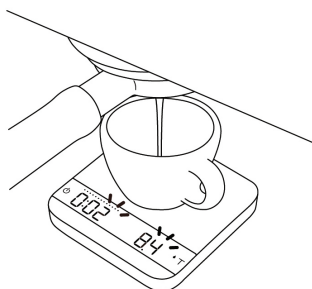
- In grams, the LED display shows [0:00 0.0].
- In ounces, the LED display shows [0:00 0.000].



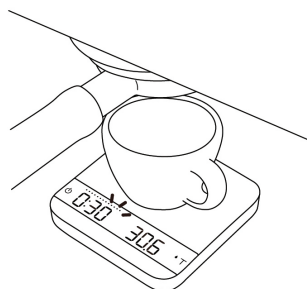
1 The droplet icon indicates that you are in Timer Starts with Flow Mode.



2 Place a cup on the scale and tare the weight manually.



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 the flow is detected
Tare Weight	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

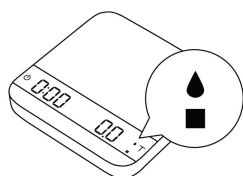
Mode 4 - Auto-Tare Timer Starts with Flow Mode - Droplet and Square



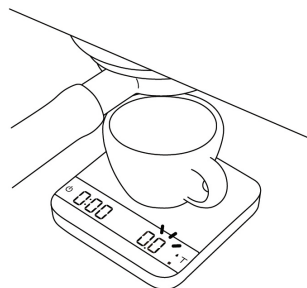
This mode is designed for baristas who would like to measure the time of the shot starting from the first few drops of espresso. When the weight reading is stable, the scale will perform the auto-tare operation. After the scale detects the espresso flow, the timer starts automatically. The timer will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

Display

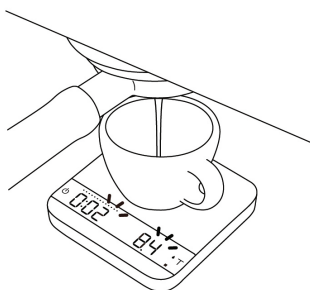
- In grams, the LED display shows [0:00 0.0].
- In ounces, the LED display shows [0:00 0.000].
- The timer displays from [0:00] to [9:59] and then stops.



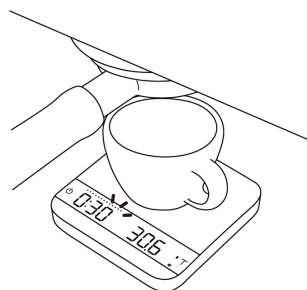
- 1 The droplet and square icon indicate that you are in Auto-Tare Timer Starts with Flow Mode.



- 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 the flow is detected
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

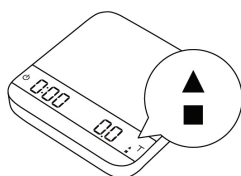
Mode 5 - Auto-Tare Auto-Start Timer Mode ▲■ - Triangle and Square



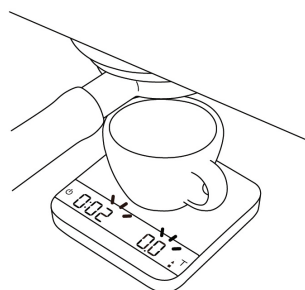
This mode is for baristas to measure the total time of a shot including the pre-infusion time. After a cup is placed on the scale and the weight reading is stable, the scale performs auto-tare and starts the timer.

Display

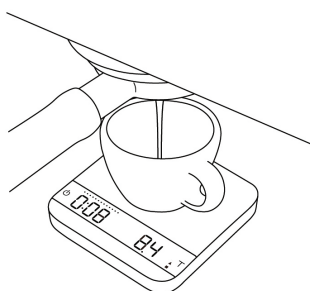
- In grams, the LED display shows [0:00 0.0].
- In ounces, the LED display shows [0:00 0.000].
- The timer displays from [0:00] to [9:59] and then stops.



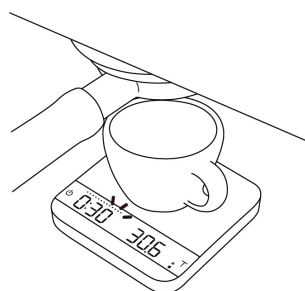
- 1 The triangle and square icon indicate that you are in Auto-Tare Auto-Start Timer Mode.



- 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

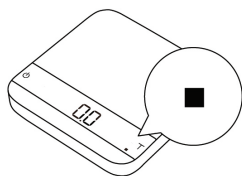
Mode 6 - Auto-Tare Mode ■ - Square



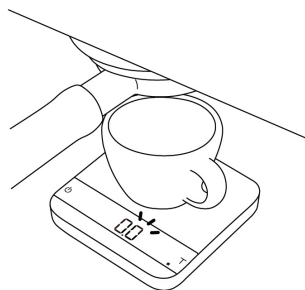
In this mode, the scale will only perform auto-tare. Put the cup on the scale and auto-tare will be performed. Pull the shot of espresso as you normally would. When the cup is removed from the scale, the espresso brewing summary will be displayed.

Display

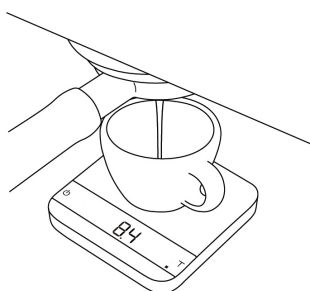
- In grams, the LED display shows [0:00 0.0].
- In ounces, the LED display shows [0:00 0.000].



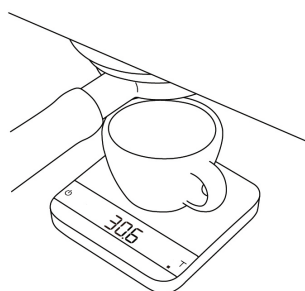
1 The square icon indicates that you are in Auto-Tare Mode.



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

Mode 7 - Pour Over Auto-Start Timer Mode ●💧 - Circle and Droplet



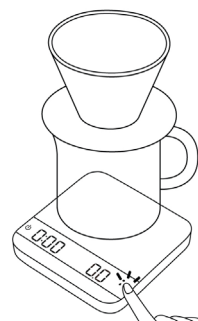
This mode is designed to aid pour over coffee brewing. The scale detects the start of the flow from kettle into vessel and automatically starts the timer. The timer stops when the brewing equipment is removed from the scale. After removing the equipment, the display flashes the final beverage weight.

Display

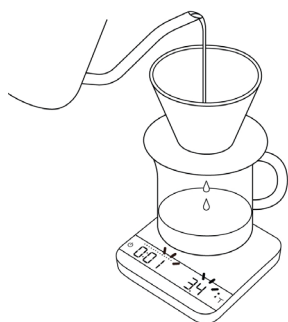
- In grams, the LED display shows [0:00 0.0].
- In ounces, the LED display shows [0:00 0.000].
- The timer displays from [0:00] to [9:59] and then stops.
Please refer to page 6 for more details on Flow Rate Indicator.



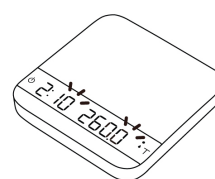
- 1 The Circle and Droplet icon indicate that you are in Pour Over Auto-Start Timer Mode.



- 2 Place a cup on the scale and tare the weight manually.







- 3 The timer will start automatically when the first flow of water is detected.

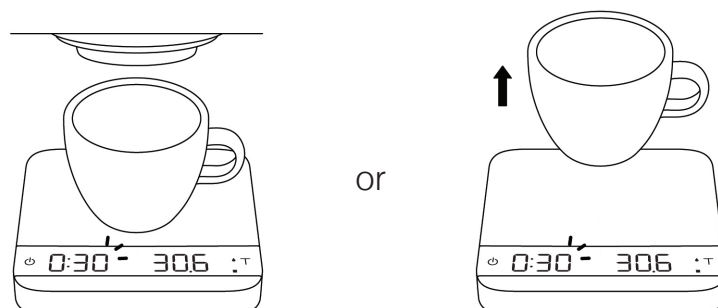


- 4 The timer stops when the brewing equipment is removed. The scale will flash between the beverage weight and the tare weight of the items on the scale.

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

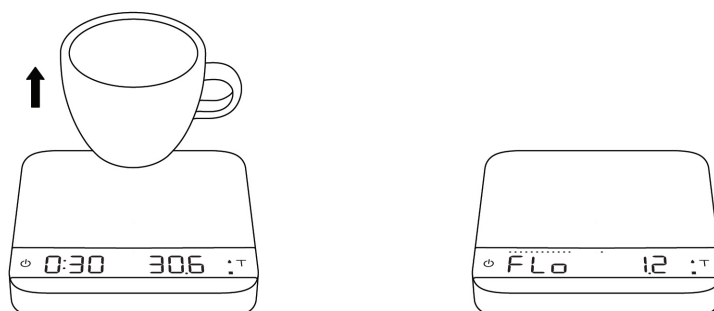
Timer Auto Stop

In all three Auto-Start Modes ( ,  , ), the timer will stop when the espresso flow stops or when the cup is removed from the scale. In the Pour Over Auto-Start Timer Mode (), the timer will stop when the cup is removed from the scale.



Espresso Brewing Summary

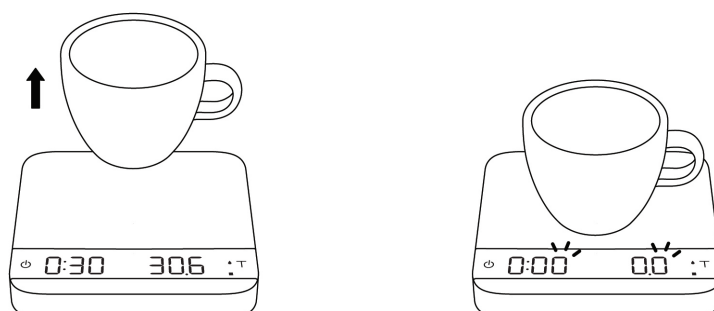
In all Auto Modes (including Auto-Tare Mode), when brewing is complete and the cup is removed from the scale, the display will flash to show the final beverage weight and the average flow rate of the brewing.



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.

Note: To change this reset time, please see Auto-Reset Setting in the Configuration section (p.19).











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 the Tare 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

Settings	Display	Sub-Menu Options	Default
Sleep Timer Setting	SLEEP	5, 10, 20, 30, 60, Off	5
Brightness Setting	bright	1, 2, 3, 4	2
Battery Saving Setting	bAttSavE	30, 90, 180, Off	90
Default Weighing Unit Setting	Unit	Gram, Ounce	Gram
Key Sound Setting	bEEP	Off, 1,2,3	2
Weighing Mode Setting	NOdE_1	On, Off	On
Dual Display Mode Setting	NOdE_2	On, Off	On
Timer Starts with Flow Mode Setting 	NOdE_3	On, Off	On
Auto-Tare Timer Starts with Flow Mode Setting  	NOdE_4	On, Off	On
Auto-Tare Auto-Start Timer Mode Setting  	NOdE_5	On, Off	On
Auto-Tare Mode Setting 	NOdE_6	On, Off	On
Pour Over Auto-Start Timer Mode Setting  	NOdE_7	On, Off	On
Flow-Rate Indicator Setting	FLorAtE. d	Default, Grad, Off	Default
Average Flow-Rate Setting	Avg. FLo	On, Off	On
Weight Stable Indicator Setting	StAbLE. d	On, Off	Off
Auto-Reset Setting	Auto_rES	Off, 10, 30	30
Pre-infusion Time Out Setting	PrE_inFu	10, 30, 60, 120	60
Power Off Setting	P_OFF	Default, 0.5	Default
Auto-Start Sensitivity Setting	SEnSE	0.1, 0.2, Off	Off
Weighing Resolution Setting	rESoL	Default, High	Default
Weighing Filter Setting	FiLtEr	Fast, Normal, High	Fast
Zero Tracking	trAcE	0.5 d, 1 d, 2 d, 3 d, Off	1d
Bluetooth Setup Setting	bt_SEt	On, Off	On
Reset to Default Setting	rESE t. d	No, Yes	No

Sleep Timer Setting [SLEEP]

1. Sleep Timer setting 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.

Brightness Setting [bright]

1. The default setting is 2.
2. You can adjust the brightness of the LED display. Set to 4 when operating under strong light, such as when outdoors.

Battery Saving Setting [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]

The default setting is 2.

Customize your Lunar 2021 scale with adjustable beep volume settings. Choose from Off, 1, 2, or 3 (3 being the greatest volume).

Weighing Mode Setting [NoDE_1]

The default setting is On.

- On: Mode enabled.
- Off: Mode disabled.

Dual Display Mode Setting [NodE_2]

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.

Pour Over Auto-Start Timer Mode ● 🔹 Setting [NodE_7]

The default setting is On.

- On: Mode enabled.
- Off: Mode disabled.

Flow-Rate Indicator Setting [FLorAtE.d]

1. This is automatically set to Default.
2. Default: Flow-Rate Indicator enabled. The Flow-Rate Indicator on the top of the display turns on and visualizes your espresso flow-rate in real time.
3. Grad: Flow-Rate Indicator and Flow-Rate Markers enabled. The markers will turn on when brewing. Every marker represents a 0.5g/s increment in flow-rate.
4. Off: Flow-Rate Indicator disabled.

Average Flow-Rate Setting [Avg.FLo]

1. The default setting is On.
2. On: Average Flow-Rate enabled. When brewing is complete and the cup is removed from the scale, the display will show the espresso summary with the beverage weight and the average flow-rate of brewing.
3. Off: Average Flow-Rate disabled. When brewing is complete and the cup is removed, the display will show the espresso summary with the beverage weight and the current weight.

Weight Stable Indicator Setting [StAbLE.d]

1. The default setting is Off.
2. On: Weight Stable Indicator enabled. The Weight Stable Indicator on the bottom left of the display lights up when the weight is stable.
3. Off: Weight Stable Indicator disabled.

Auto-Reset Setting [Auto_rES]

1. After a cup is removed, the timer and weight 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 Setting [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 issue 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 Setting [SEnSE]

1. Minimum weight is decreased for more sensitivity. This is ideal for slower espresso shots in the  modes. Stability depends on environmental noise.
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 Weighing Resolution is automatically set to [dEFAUL]: the division is 0.1 g/0.002 oz.
2. Tap the Tare button to switch the Weighing Resolution between [dEFAUL] and [hiGh].
3. When the Weighing Resolution is set to high, the 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 [FiLteR]

1. The default setting is Fast.
2. The weighing filter setting determines the speed with which the load receptor responds to and determines the weight. “High” indicates a more stable but slower weighing result; “Fast” indicates higher sensitivity and a faster weighing result.

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.

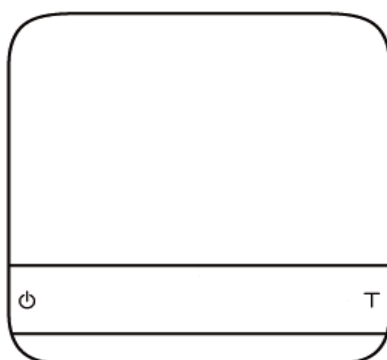
Bluetooth Setup Setting [bt_SEt]

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]

Select [YES] to reset all settings to default value.


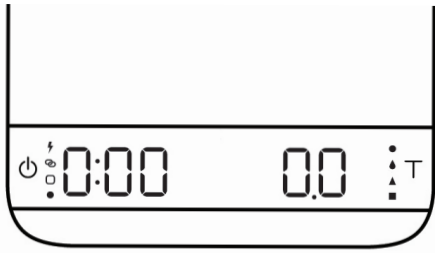







Appendix



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.
 T Button	Tare	Tap to tare weight.
	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 to subtract the saved container weight.
	Switch Option	While in Settings, tap to scroll 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

	Charging / Low Battery Indicator			Button Pressed Indicator / Pour Over Indicator
	Bluetooth Connection Indicator			Auto-Start Timer Indicator (Flow)
	Weight Stable Indicator			Auto-Start Timer Indicator (Tare)
	Weighing in Ounces / Data Transmitting Indicator			Auto-tare Operation

Charging / Low Battery Indicator

This indicator turns on when the battery is charging and turns off once the battery is fully charged. The indicator starts flashing when the battery power is low as a reminder to charge the scale.

* Note: The Acaia Lunar is equipped with charging protection to prevent the battery from charging under high temperatures. It is normal if the scale does not charge when the surface is hot from brewing coffee. Battery charging function will be enabled once the scale has cooled.

Bluetooth Connection Indicator

This indicator turns on when the scale is connected to Acaia Apps.

Weight Stable Indicator

This indicator turns on when the weight is stable.

Weighing in Ounces / Data Transmitting Indicator

This indicator turns on when the weighing unit is in ounces.

The indicator also lights up during software update to indicate data transfer.

Button Pressed Indicator / Pour Over Indicator

This indicator turns on when a button is pressed.

The indicator turns on in Pour Over Auto-Start Timer mode ( ). The scale automatically starts the timer when flow from kettle is detected.

Auto-Start Timer with Flow Indicator

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.

Auto-Start Timer with Tare Indicator

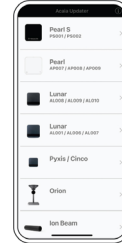
The scale performs auto-tare and simultaneously starts the timer when a stable weight is placed on the weighing pan.

Auto-Tare Indicator

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:



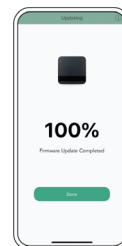
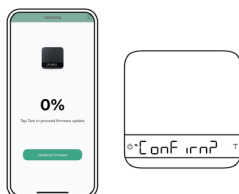
- 1 Use the [Acaia Updater app](#) to learn about the latest firmware releases and updates for the Lunar.

- 2 In the Acaia Updater app, select Lunar (AL008/AL009/AL010). 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.
	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	AL008 / AL009 / AL010 / AL012 / AL013
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 / 0.01 g
Repeatability	0.1 g
Linearity	1 d (d = 0.1 g)
Indication Limit	2060 g / 72.66 oz
Power Supply	5V / 500mA
Battery	Lithium-ion rechargeable 3.7V 1100mAh
Battery Life	30-40 hours
Display	8-digit LED
Material	Aluminum, Acrylic
Connectivity	Bluetooth 5.0
Inside the Package	Acaia Lunar Coffee Scale x 1 Heat Resistant Pad x 1 Non-slip Protective Strip x 2 Friction-reduction Protective Strip x 2 USB Type-C Charger Cable x 1 Acaia Calibration Weight 100 g x 1

Copyright

This user manual is protected by copyright. All rights reserved. No part of this manual may be reproduced, processed, duplicated or published in any form by photocopying, microfilming, reprinting or any other method, in particular electronic means, without the written consent of Acaia.

© Acaia, California, 2026.