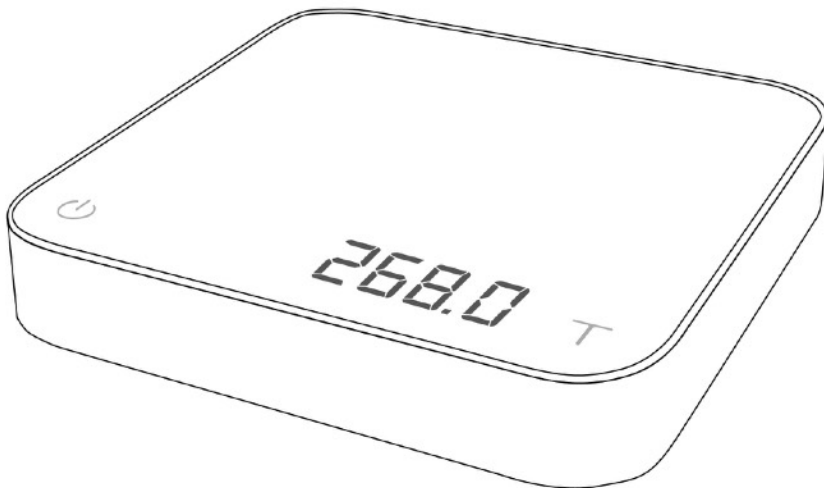


acaia

Acaia Pearl Operation Manual

Using Your Pearl

FW 2.0.008



Identification

The instructions in this operation manual apply to Acaia Coffee Scale. You have purchased a quality precision weighing scale that requires handling with care. Make sure to read through this operation manual prior to using the scale.

Disclaimer Notice

Calibrate your scale using calibration weight of the appropriate tolerance (class). A scale can be no more accurate than standard masses to which it has been compared. For more details, please read Calibration Mode section in the operation manual.

CAUTION:

- 1. Do not place any hot object directly on the weighing pan. Please use a heat resistant pad under hot objects.**
- 2. Any modification made without the consent of manufacturer may result in damage to scale.**

Contents

4 Chapter 1: Scale at a Glance

- 4 Introduction
- 4 Specification
- 5 Scale overview
- 6 Accessories
- 6 Buttons
- 7 LED indicators
- 7 Battery charge

8 Chapter 2: Getting Started

- 8 Preparation
- 9 Installation

10 Chapter 3: Basics

- 10 Basic operations
- 10 Modes
- 10 Mode 0 - Weighing mode
- 11 Mode 1 - Espresso mode
- 11 Mode 2 - Timer mode
- 12 Mode 3 - Auto Start Mode
- 13 Mode 4 - Beverage Mode
- 14 Mode 5 - Auto Tare Mode

15 Chapter 4: Calibration

- 15 Calibration mode

16 Chapter 5: Configuration

- 16 Enter settings
- 16 Settings
- 17 Settings Operation
- 17 Auto zero settings
- 17 Zero tracking
- 17 Key sound settings
- 17 Zero range settings
- 18 Weighing filter settings
- 18 Default weighing unit settings
- 18 Weighing resolution

19 Appendix

- 19 Error code

Chapter 1: Scale at a Glance

Introduction

Thank you for choosing one of our scales. The Acaia Coffee Scale is designed and manufactured to the most rigorous standard to give you the best coffee brewing experience. First of all, check the shipping carton to find the followings:

● Acaia Coffee Scale ● Heat Resistant Pad ● Micro-B USB cable

Next, follow the instructions in Preparation and Installation sections in the manual to get started.

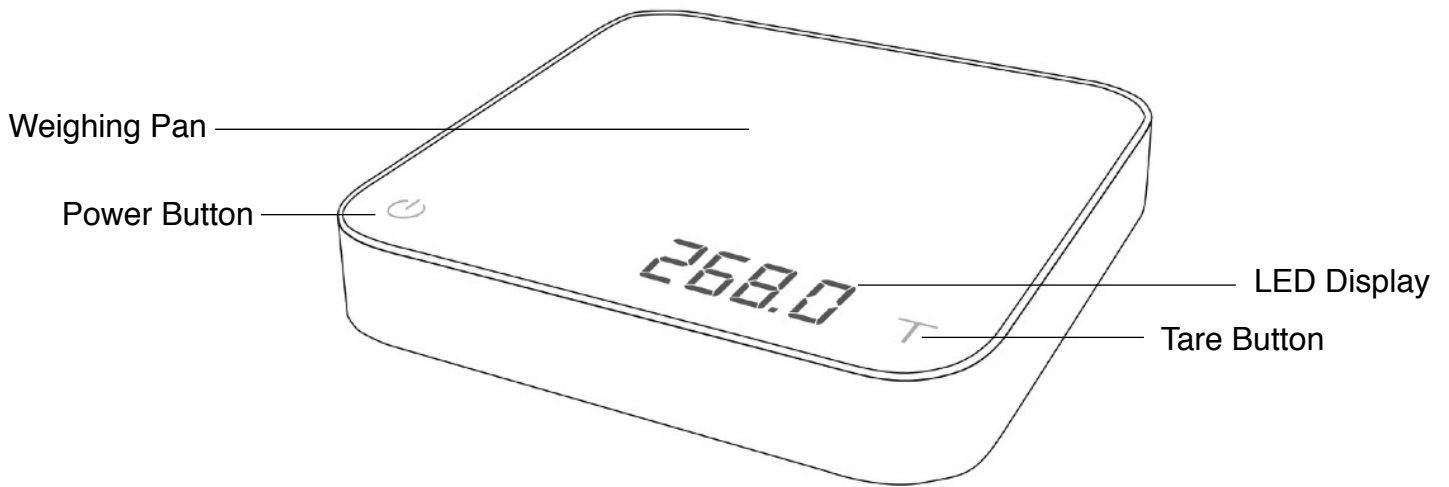
To take an advantage of its many features, carefully read through the operation manual containing step-by-step procedures, examples, and other information.

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

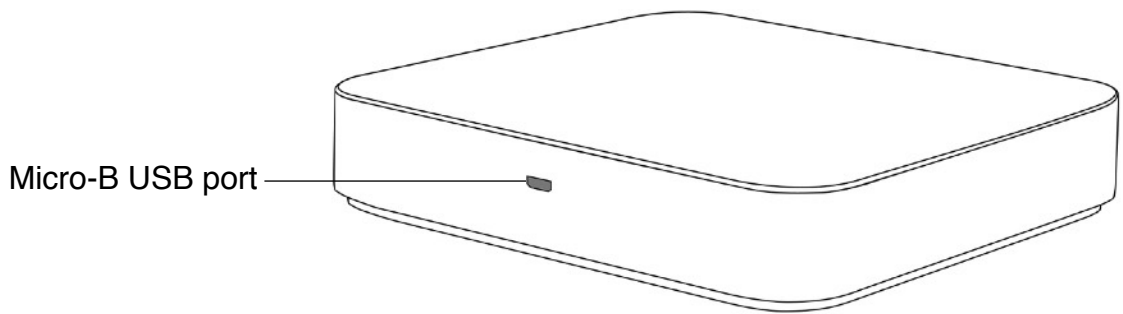
Specifications

Aprox. weight	462g		
Capacity	2000g / 70.54oz		
Measuring Units	g , oz		
Weighing range 1	Maximum capacity	1000.0g	35.280oz
	Minimum capacity	1.0g	0.035oz
	Division	0.1g	0.005oz
Weighing range 2	Maximum capacity	2000.0g	70.540oz
	Minimum capacity	1000.0g	35.280oz
	Division	0.5g	0.020oz
Indication limit	2060.0g / 72.660oz		
Unit dimensions	(L x W x H) 160x160x30mm		
Electrical Requirements	5V/500mA		
Power and Battery	Lithium-ion rechargeable 3.7V 1100mA		
Display	LEDTop: PC, Touch sensitive		
Bottom	anti-slip, rubber, flat surface.		
Connectivity	Bluetooth 4.0		
Linearity	+/- 0.2g		
Work time	Up to 25 hours		

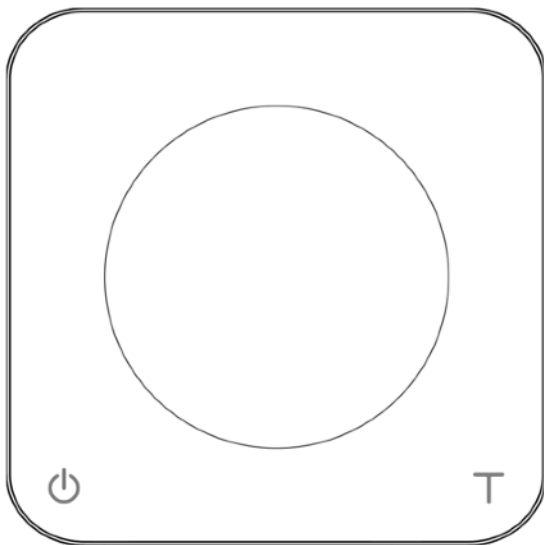
Scale Overview



Scale Front



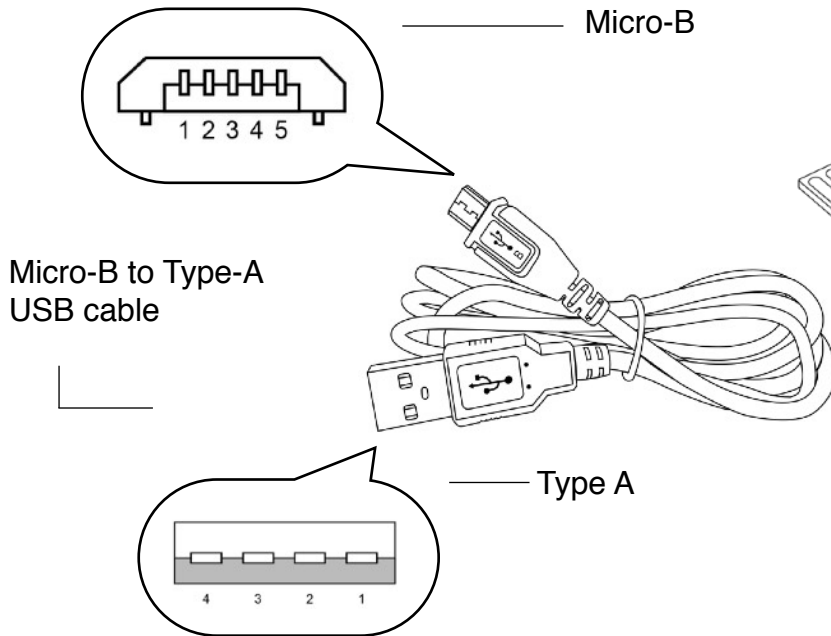
Scale Back



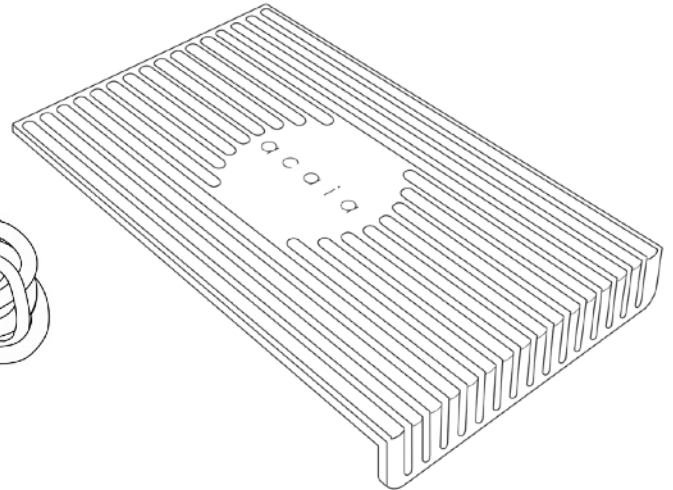
*Note: For the best performance, place the weight in center of weighing platform.

Accessories



Micro-B USB Cable



Heat Resistant Pad

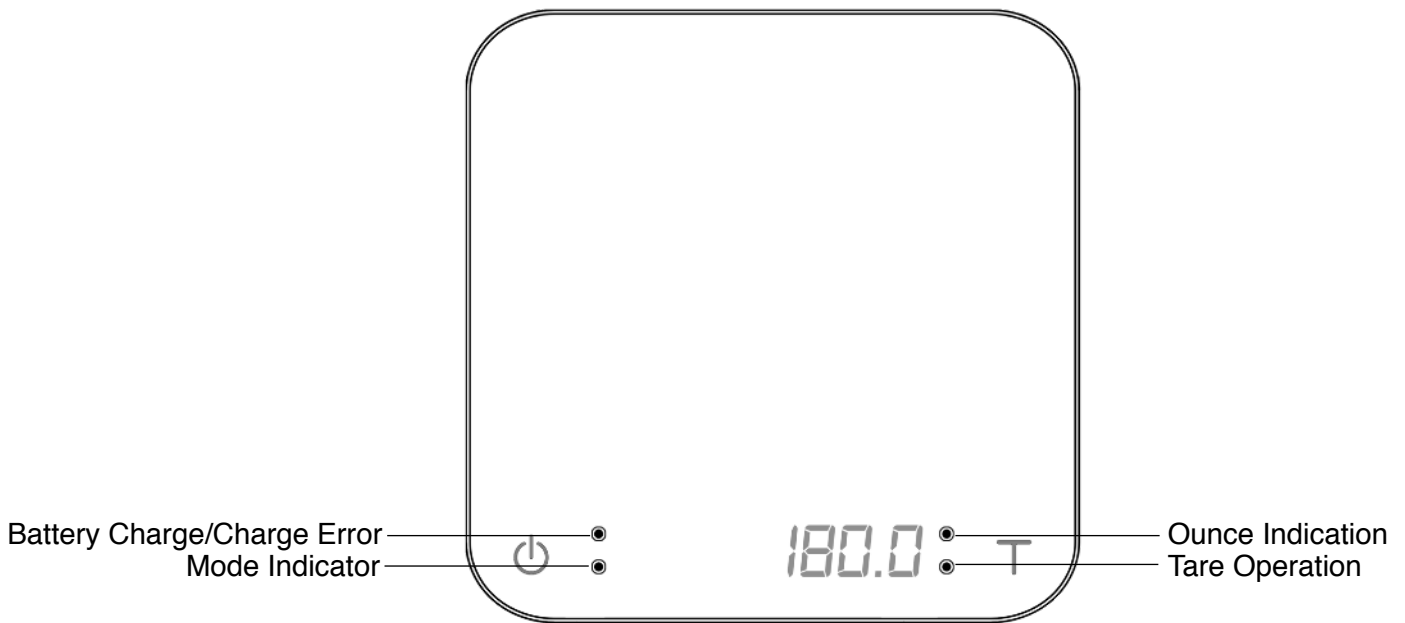


Buttons

Button	Function	Example
	Turn on	Long Press to turn on the scale.
	Turn off	Double-tap the power button to turn off the scale.
	Switch mode (Default)	While the scale is turned on, press and hold for 2 seconds to switch mode.
	Start/Stop/Reset Timer	While in Timer Mode, press to start/stop/reset timer
	Back	While in Settings, press to go back to Weighing Mode from menu tree.
	Tare	While in Weighing Mode, press to make tare operation.
	Toggle Units	Long Press to changing between Gram and Ounce in Weighing Mode.
	Switch option	While in Settings, press to switch options.
	Reset Mode	Double Tap to reset mode.
	Confirm	While in Settings, press and hold for 2 seconds to confirm the option selected.
	Enter calibration modes	While in Weighing Mode, continuously press multiple times to enter Calibration Mode.

* Please find **Chapter 3: Basics** for more details.

LED Indicators



Battery Charge / Charge Error

The LED indicator on the upper left lights on in orange when the battery is charging and lights off when the battery is fully charged. The indicator starts flashing when the USB cable is not working.

Timer Reset

The timer displays from 0 to 59 seconds in cycle and will reset when reaching 60 seconds. The LED indicator on the lower left lights on in orange when the timer resets.

Tare Operation

The tare indicator on the lower right lights on once in green when **T** button is pressed.

Ounce Indication

The ounce indicator on the upper right lights on in green when the weighing unit is in ounce.

Battery Charge

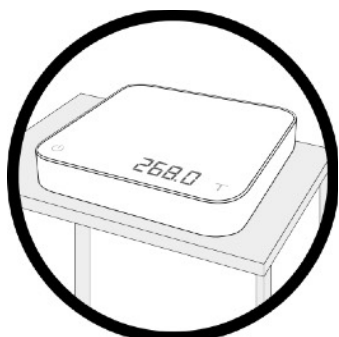
- You can charge the battery by plugging the USB cable to any power supply listed below:
 - A computer
 - A wall A/C via USB power adaptor
 - A DC via car power adaptor
- It takes about 1~2 hours to fully charge the battery from empty. You can charge the battery more frequently so that it will never hit empty.
- A fully charged battery can continuously last for about 25 hours.
- Battery percentage can be viewed via Acaia APP.

Chapter 2: Getting Started

Preparation



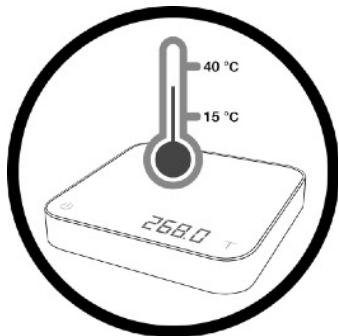
- This scale is intended for indoor use.



- Select a work place that is stable, vibration-free and, if possible, a horizontal location for the weighing platform.

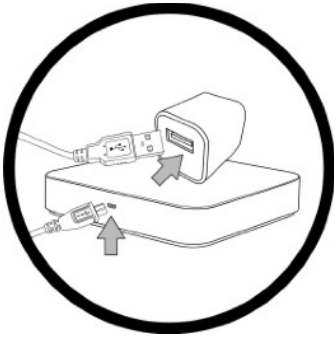


- Do not locate the scale near any equipment/instrument which contains magnets.




- Avoid places where room temperatures are unstable. Room temperature above 40°C or below 15°C may result in weighing inaccuracy.

Installation



- To use AC adapter instead of the built-in battery, plug the USB cable into the Micro-B USB port located on the back panel of the scale.








- Long Press  to turn on the scale.
- * **It is highly recommended to calibrate the scale with calibration weight before using.**



- Please make sure to use a heat resistant pad under hot objects.

Chapter 3: Basics

Basic Operations

Action	Operation
Turn On Scale	Long Press 
Turn Off Scale	Double Tap 
Switch Mode	Long Press 
Tare Weight	Short Press 
Reset Mode	Double Tap 

Modes **To Enable/Disable Modes Please go to Chapter 5: Configuration on Page 16.*

Mode 0 - Weighing Mode

Mode 1 - Espresso Mode

Mode 2 - Timer Mode





Mode 3 - Auto Start Mode


Mode 4 - Beverage Mode

Mode 5 - Auto Tare Mode

Mode 0 - Weighing Mode



Action	Operation
Tare Weight	Short Press 
Toggle Units G/Oz	Long Press 
Reset Mode	Double Tap 
Switch Mode	Long Press 

1. There are two different weighing units in Weighing Mode: grams and ounces.
2. The readability is 0.1g for grams and 0.005oz for ounces.
3. The LED display shows [] when the weighing unit is in gram.

Mode 1 -Espresso Mode



Action	Operation
Start/Pause/Reset Timer	Short Press
Tare Weight	Short Press T
Reset Mode	Double Tap T
Switch Mode	Long Press

1. The LED Timer on the left, weighing result on the right.
2. The timer displays from 0 to 59 seconds in cycle and will reset when reaching 60 seconds. When it resets, the Mode Indicator flashes
3. The readability decreases when the the weight is over 99.9. The LED display shows up to in maximum. [1999]

**To Enable/Disable Espresso Mode, please go to Chapter 5: Configuration on Page 16.*

Mode 2 - Timer Mode



Action	Operation
Start/Stop/Reset Timer	Short Press
Tare Weight	Short Press T
Reset Mode	Double Tap T
Switch Mode	Long Press




1. The maximum will be 9 minutes and 59 seconds. The Weight display of the right side is from 0 to 999. When the value is over 1000, it will restart from 0 with Mode Indicator flashing.
2. Mode indicator flashes to indicate a 1000.

**To Enable/Disable Timer Mode, please go to Chapter 5: Configuration on Page 16.*

Mode 3 - Auto Start Mode



Place materials on scale. Tap Power Button to automatically tare. Begin pouring and timer will start with the pour. Timer stops when brewing equipment is removed.

Action	Operation
Initiate Auto Start	Short Press 
Tare	Short Press T
Stop Timer	While timer is running. Short Press 
Reset Mode	Double Tap T
Switch Mode	Long Press 

**To Enable/Disable Auto Start Mode, please go to Chapter 5: Configuration on Page 16.*

Mode 4 - Beverage Mode



Follow instructions on the display to place the carafe, filter, and coffee (tap Tare in between steps). Timer will start with the pour. Lift dripper and filter off to stop timer. The flashing number is your beverage weight with all items subtracted.

Action	Operation
Next Step	Short Press T
Previous Step	Short Press ⏻
Stop Timer	Short Press ⏻
Reset Mode	Double Tap T
Switch Mode	Long Press ⏻

Display	Action/Description
CUP	Put the carafe/cup on the scale
FLF	Put the filter on the cup
COF	Put the coffee in the filter
*Timer Flashes	Ready to Brew
-FLF-	Please remove filter
bxxxx,x xxx.x	Beverage Weight Total Weight

1. As soon as weight is stabilized, next step will show in display.
2. Timer starts when water pour detected.
3. Timer stops with ⏻ short press or items removed (dripper).
4. AFTER process, and filter is removed, the display will blink/toggle the water weight and Beverage weight (marked with “b”).

**To Enable/Disable Beverage Mode, please go to Chapter 5: Configuration on Page 16.*

Mode 5 - Auto Tare Mode (after version 2.0.008)



Displays weight only. Place item on and off scale and it will automatically tare.

Action	Operation
Tare Weight	Short Press T
Reset Mode	Double Tap T
Switch Mode	Long Press ⏻

**To Enable/Disable Auto Tare Mode, please go to Chapter 5: Configuration on Page 16.*

Chapter 4: Calibration







Calibration Mode

1. While the scale is in Weighing Mode and the weighing unit is in gram, press \overline{T} button quickly multiple times until LED display shows [*CAL*] and then [*500*].
2. Place a 500g calibration weight on scale and wait for the scale to execute calibration procedure.
3. The LED display shows [*-End-*] when the calibration procedure is completed. You may unload the calibration weight when completed.






* Note: Calibration weight of 100g, 1000g, 1500g, or 2000g can also be used.

Chapter 5: Configuration

Enter Settings

1. Press and hold  while turning ON the scale.
2. Keep  Pressed. when the LED display shows [n ACRIR] and turns [SEt], Long Press  for another 2 seconds without releasing button.
3. Release both  and  when displays [F.0000].
4. Long Press  to move the flashing digit to the right. Repeat this step for 4 times to enter Settings. It will show the first setting [SLEEP].
5. Please see below table for all setting:

Setting	Display	Options	Default
Auto Switch Off	SLEEP	5, 10 ,20, 30, 60, Off	5
Auto Zero	0.AUTO	On, Off	Off
Zero Tracking	trAcE	2d, 3d, Off	2d
Key Sound	bEEP	On, Off	On
Zero Range	0.rANGE	2, 100	100
Weighing Filter	Fi lT	2, 4, 6, 8, 16, 32, 64, 128	16
Default Weighing unit	Unit	Gram, Ounce	Gram
Weighing Resolution	rESoL	Default, High	Default
Espresso Mode	ModE_1	On, Off	Off
Timer Mode	ModE_2	On, Off	On
Auto Start Mode	ModE_3	On, Off	Off
Beverage Mode	ModE_4	On, Off	Off
Auto Tare Mode	ModE_5	On, Off	On
Bluetooth Password	rESEt.d	Yes, No	No
Bluetooth On/Off	bt_SEt	On, Off	On

Action	Operation
Next Setting	Short Press 
Enter Setting	Long Press 
Toggle Options	Short Press 
Save Option	Long Press 
Leave Setting	Short Press 

Auto Sleep Settings

Auto Sleep Settings can also be configured in the Acaia App.

1. The number indicates the amount of time before the scale enters sleeping mode. For example, when 10 is selected, the scale enters sleeping mode after 10 minutes of idling.

Auto Zero Settings

1. When Auto Zero setting is off or disabled, the initial weight on weighing pan must be less than 50% of capacity, i.e., less than 1kg for Acaia coffee scale before the scale is turned on; otherwise, an error [*Er.303*] occurs. When the error occurs, the scale would not work until the initial weight on weighing pan is cleared.
2. When Auto Zero setting is on or enabled, the scale displays the initial weight directly regardless whether the weight is over 50% of capacity.

Zero Tracking

Zero Tracking is a function for maintaining the zero indication within certain limits automatically.

1. OFF: It is not recommended to turn off the Zero Tracking because the zero indication would drift easily as room temperature changes.
2. 0.5d~3d: For example, since each division is 0.1g, 3d = 0.3g. When Zero Tracking is set to be 3d, any initial weight between +/- 0.3g on the weighing pan would be zeroed out.
3. 2d is recommended in general for Acaia coffee scale.

Key Sound Settings

Key Sound Settings can also be configured in the Acaia App.

- Set the Key Sound function off to turn off the beeping sound or on to turn on the beeping sound.

Zero Range Setting

Zero Range setting determines the range for which **T** button executes zero operation instead of tare operation.

1. When Zero Range is set to 2, the range for zero-setting will be 2% of the capacity, i.e., +/- 40g for Acaia coffee scale. By pressing **T** button, any weight within +/- 40g is zeroed out by zero operation while any weight lays outside the range is tared out by tare operation.
2. If Zero Range is set to 100, the range for zero-setting will be 100% of the capacity, i.e., +/- 2kg for Acaia coffee scale. Therefore, instead of tare operation, zero operation would be executed in this setting whenever **T** button is pressed.

Notice: The difference between zero operation and tare operation is that zero operation would simply ignore the weight and display as 0 while tare operation would deduct the weight from weighing result. However, zero operation does not increase the scale capacity.

Weighing filter setting

1. The number shown on LCD display indicates the current filter parameter which determines the speed for load receptor to response to weight and to determine the weighing value. The larger the number, the more stable but slower the weighing result will be.

Default Weighing Unit

1. The Default Weighing Unit is set to be gram.

Weighing resolution

1. The default Weighing Resolution is set to [*DEFAULT*]: the division is 0.1g under weight of 1000g and 0.5g from 1000g to 2000g.
2. When the Weighing Resolution is set to high, division will be 0.1g throughout the entire time from 0g to 2000g.

Bluetooth Password

Bluetooth On/Off

Appendix

Error Code

Error Code	Description
100	Code error
101	EEPROM error
102	AD read error
	Over load: the weight is over the maximum capacity.
	Under load: the weight is under the minimum capacity.
303	Unable to make zero point, for the initial weight exceeds the limit (50% of capacity).
304	Please do calibrate in a stable environment without wind or shake etc.
802	Unable to tare, for the weight exceeds the tare range.
803	Unable to tare, for the weight is unstable.
900	Password error (the default password is 0000)

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