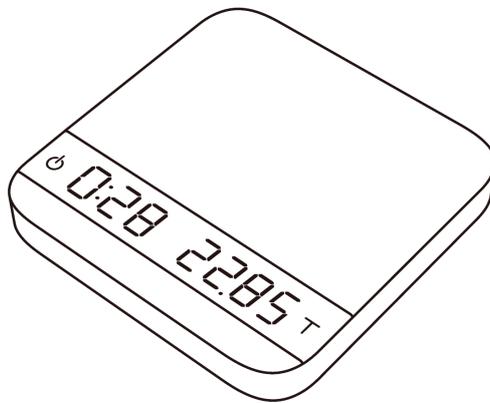# acaia

Acaia Cinco Operation Manual

Using Your Cinco

FW 1.0.012

The instructions in this operation manual apply to Acaia Cinco 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

Calibrate your scale using a calibration weight of the appropriate tolerance (class F_1 or F_2). A scale can only be as accurate as the standard masses or weights used for calibration. For more details, please read Calibration Mode section in the operation manual.

CAUTION:

1. **Any modification made without the consent of the manufacturer will result in the warranty being voided.**
2. **Risk of explosion if battery is replaced by an incorrect type. Dispose of used batteries according to the instructions.**

Contents

Chapter 1: Scale at a glance

Identification

The instructions in this operation manual apply to the Acaia Cinco. 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.

● Acaia Cinco Scale	● Micro-USB Cable
● Acaia Cinco Carrying Case	● Acaia 5th Anniversary Pin Set
● Acaia Scale Weight 100g	

Follow the instructions in **Preparation and Installation** sections in the manual to get started.

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

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

Specifications

Aprox. Weight	70g		
Capacity	500g / 17.636oz		
Measuring Units	g , oz		
Weighing Range 1	Maximum capacity	300.00g	10.582oz
	Minimum capacity	0.01g	0.0005oz
	Division	0.01g	0.0005oz
Weighing Range 2	Maximum capacity	500.00g	17.636oz
	Minimum capacity	300.00g	10.582oz
	Division	0.02g	0.001oz
Indication Limit	515.00g / 18.166oz		
Unit Dimensions	65mm (W) x 65mm (L) x 13mm (H)		
Electrical Requirements	5V/500mA		
Power and Battery	Lithium-ion rechargeable 3.7V 310mA		
Display	8 digit LED		
Top	Aluminum construction with acrylic window, touch sensitive buttons		
Bottom	Aluminum construction		
Connectivity	Bluetooth 4.0		

Linearity	+/-2d (d=0.01g for 0g~300g, d=0.02g for 300g~500g)		
Work Time	Up to 7 hours		
Starting Weight	1d		
Error Range	0.02g		

Scale Overview

Weighing Pan

Power Key

LED Display

Tare Key

Scale Front

Scale Back

Micro-B USB port
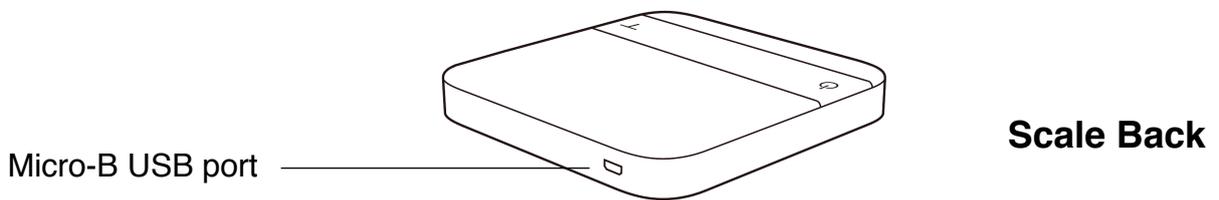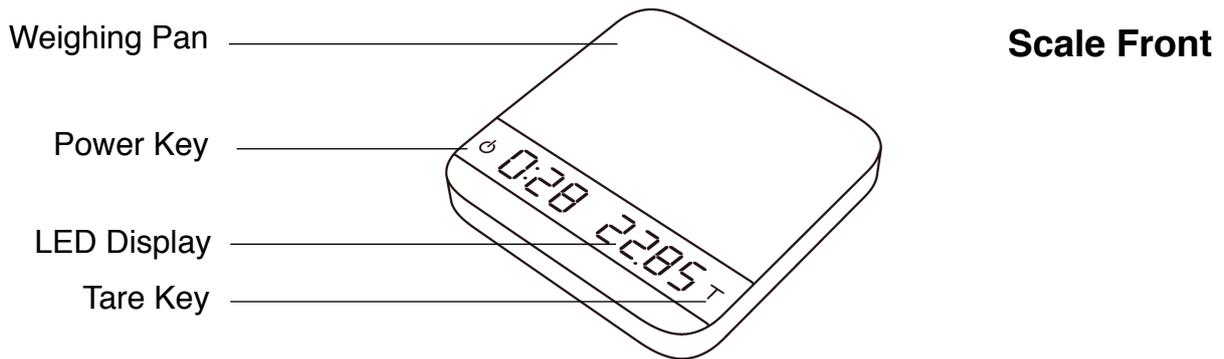
Accessories
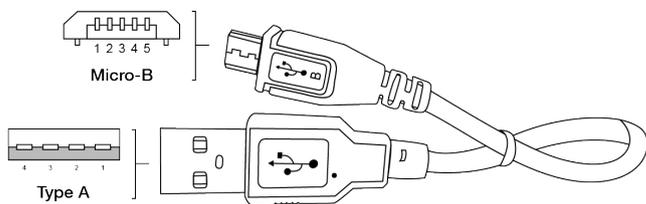
**Micro USB
Charging Cable**
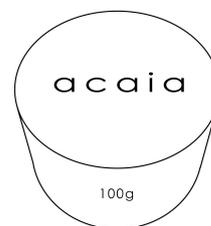
**Acaia Scale Weight
100g**

Buttons

Button	Function	Example
⏻ (power icon)	Turn on	Press and hold for 0.5 seconds 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 1 second to switch modes: Weighing Mode / Dual Display Mode / Auto Start Mode.
	Start/Stop/Reset Timer	While in Dual Display Mode, tap to start/stop/reset timer
	Back	While in Settings, press to go back to Weighing Mode(Default Setting).
T	Tare	While in Weighing Mode/ Dual Display Mode / Auto Start Mode, press to perform tare operation.
	Toggle units	Long Press to switch between Gram and Ounce in Weighing Mode.
	Switch option	While in Settings, tap to advance through settings options. While in settings, tap to toggle options in sub menus.
	Reset	While in Auto Start Mode, double tap to reset the mode.
	Confirm	While in Settings, press and hold for 2 seconds to confirm the option selected in a sub menu.
	Enter calibration modes	While in *Weighing Mode*, rapidly tap T button to enter Calibration Mode.
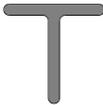
* Please find **Chapter 3: Basics** for more details.

LED Indicators

Power charge indication

1. Key press indication
2. Firmware updating
   indication
3. Bluetooth connection
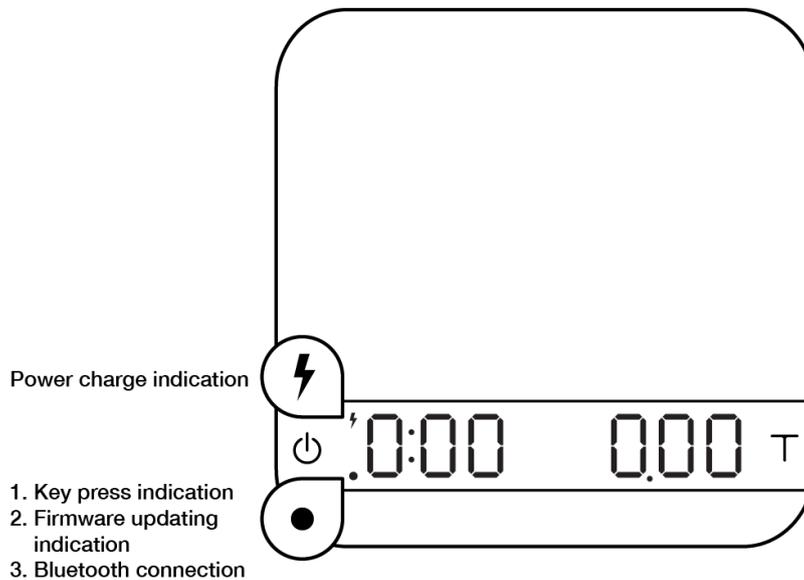
Battery Charge

- You can charge the battery by plugging the USB cable to any power supply listed below:

- A computer USB port

  - A cell phone charger with a micro USB connector, an output of 5 Volts and 1 Amp is recommended

  - An automotive cell phone charger with a USB port or a Micro USB cable

  - A wall-charger with an output of 5 volts and 1 amp is recommended

- The scale takes 1-2 hours to fully charge from an empty battery. You can charge the battery more frequently so that it will never hit empty.

- Battery percentage can be viewed via Brewmaster.

- It is not recommended to let the battery run out completely before charge.

Chapter 2: Getting Started

Preparation
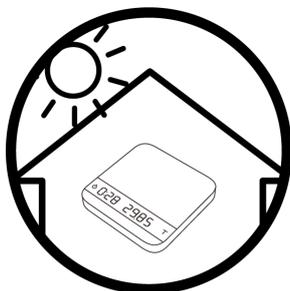
- This scale is intended for indoor use.
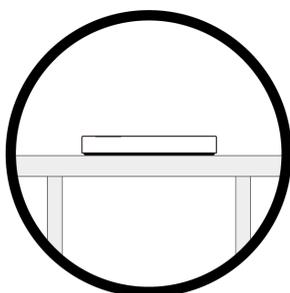
- The scale will function best when used in a stable, vibration-free, and level environment.

- Do not use the scale near magnets or equipment that contains magnets. Avoid using the scale near equipment that creates strong electrical interference.
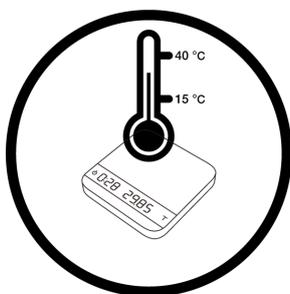
- Avoid storing or using the scale in places with large temperature changes. Temperatures above 40C (104F) and below 15C (59F) may result in weighing inaccuracy.

Charging and Setup
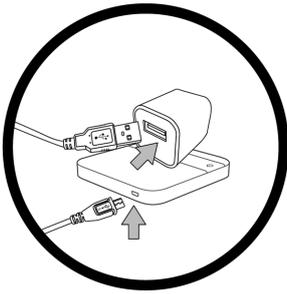
- Plug the USB cable into the Micro-B USB port on the scale's back panel for charging.

  Note: To avoid affecting the accuracy of the scale, do not use the scale during charging

- Long press power button to turn on the scale.

* It is highly recommended to calibrate the scale with the calibration weight before using.

Chapter 3: Basics

Basic Operations

Action	Operation
Turn On Scale	Press and hold power button
Turn Off Scale	Double Tap Power Button
Switch Mode	Press and hold power button while scale is on
Tare Weight	Tap T button
Toggle Units G/Oz	Long press T button

Modes **To Enable/Disable Modes Please see Chapter 5: Configuration.*

Mode 1 - Weighing Mode

Mode 2 - Dual Display Mode

Mode 3 - Auto Start Mode

Mode 1 - Weighing Mode

In the Weighing Mode, the scale will only display weight, in either grams or ounces.
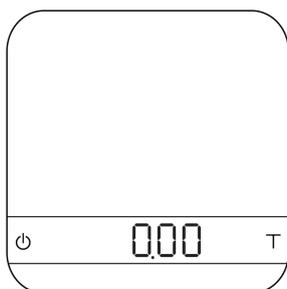
Action	Operation
Tare Weight	Tap T
Toggle Units G/Oz	Long Press T
Switch Modes	Long Press Power Button

Display

1. There are two different weighing units in Weighing Mode: gram and ounce.

2. The readability is 0.01g for grams and 0.0005 oz for ounces.

3. The LED display shows [0.00] when the weighing unit is in gram.

4. The LED display shows [0.0000] when the weighing unit is in ounce.

To Enable/Disable Weighing Mode please see Chapter 5: Configuration

Mode 2 - Dual Display Mode

In Dual Display mode, the scale displays a timer (left) and weight (right).

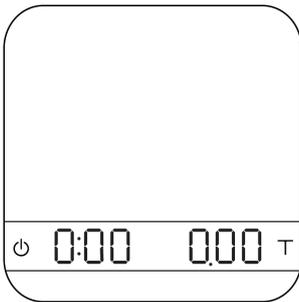| Action	Operation
Start/Stop/Reset Timer	Tap Power Button
Tare Weight	Tap T
Switch Mode	Press and hold Power Button
Toggle Units G/Oz	Press and hold T Button

Display

1. There are two different weighing units in Weighing Mode: gram and ounce.

2. In gram units, the display range is from [0.00] to [500.00] (+/- 3%).

3. In ounce units, the display range is from [0.0000] to [17.637] (+/- 3%).

4. If the weight exceeds 500.00 grams, the scale will display [——]

5. In gram units, the LED display shows [0:00 0.00].

6. In Ounce units, the LED display shows [0:00 0.000].

To Enable/Disable Dual Display Mode please see Chapter 5: Configuration

Mode 3 - Auto Start Mode

The Auto-Start Mode is designed to aid espresso extraction. The scale automatically detects a cup, shot glass, or other vessel and tares the weight of the vessel. The scale will then detect when the flow of espresso into the vessel and automatically start the timer function; the timer stops when the flow of espresso into the vessel stops. When the vessel is removed from the scale, the display flashes the final beverage weight
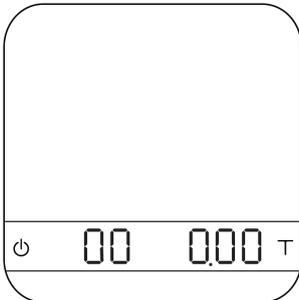
Action	Operation
Initiate Auto Start	Place the cup on the scale
Tare	Tap T Button
Stop Timer	The timer will stop when flow is no longer detected
Reset	Double Tap T Button to reset the mode
Switch Mode	Press and hold Power Button

Display

1. The LED display shows [00 0.00] with the timer on the left and the weight on the right in gram units.

2. The LED display shows [00 0.0000] with the timer on the left and the weight on the right in ounce units.

3. The timer displays from [00] to [99] , When the value is over 99, the timer will stop.

Mode Description

1. STEP 1. When placing more than 2 grams and a stable weight on the scale, the scale will perform the auto-tare operation.

2. STEP 2. After the scale detects the flow of espresso, the timer will start. The timer will stop when the espresso flow stops.

3. STEP 3. When the espresso is finished, removing the cup will flash between the beverage weight and the espresso shot.

Note

1. In Auto Start Mode, the timer will stop when the espresso flow stops

2. The auto-tare function is performed when the weight exceeds 2 grams.

3. If you do not operate the scale for 14 seconds, it will reset the timer and perform tare operation.

4. In Auto Start Modes, the timer will also stop when a negative weight (i.e. removal of cup) is detected.

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

Chapter 4: Calibration

Calibration Mode

1. While the scale is in Weighing Mode and the weighing unit is in gram, press T Button rapidly until LED display shows [*CAL*] and then [*100*].

2. Place a 100g 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 50g,100g, 200g, or 500g can also be used.

1 Turn on the Acaia scale.
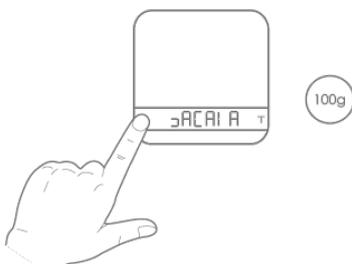
2 Make sure the scale is in weighing mode and the unit is set to 'gram', then tap the 'T' button rapidly.
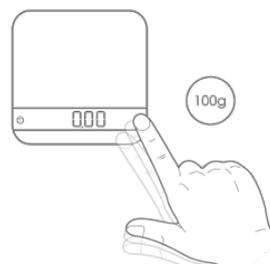
3 Keep tapping the 'T' button until 'CAL' is shown on the display.

4 Place a 100g weight on scale and wait until the display shows '_End_'. Calibration is now complete!

Chapter 5: Configuration

Enter Settings

1. Press and hold Power Button while the LED display shows [*n ACAI A*] and turns [*SEt*].

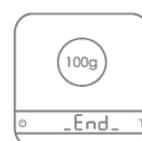2. Tap T Button to enter Settings, It will show the first setting [*SLEEP*].

3. Please refer to the following table about the details

Setting	Display	Options	Default
Auto Switch Off	*SLEEP*	5, 10 ,20, 30, 60, Off	5
Zero Tracking	*trAcE*	0.5d, 1d, 2d, 3d, Off	1d
Key Sound	*bEEP*	On, Off	On
Zero Range	*0.rAGE*	2, 100	100
Weighing Filter	*Fi lt*	2, 4, 6, 8, 16, 32, 64, 128	16
Default Weighing unit	*Uni t*	Gram, Ounce	Gram
Power Saving Mode	*SAvi nG*	30 ,90 ,180 ,OFF	90
Weighing Mode	*nodE_ 1*	On, Off	On
Dual Display Mode	*nodE_2*	On, Off	On
Auto Start Mode	*nodE_3*	On, Off	On
Bluetooth On/Off	*bt_SEt*	On, Off	On

Action	Operation
Advance to Next Setting	Tap T
Enter Setting	Long Press T
Toggle Options	Tap T
Save Option	Long Press T
Exit Settings	Tap Power Button

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.

Auto Sleep Settings

Auto Sleep Settings can also be configured in the Brewmaster.

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.

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 draft easily as room temperature changes.

2. 0.5d~3d: The Zero Tracking is measured in units of division, or "d". 1d is equal to 0.01 grams. For example, if the Zero Tracking is set to 3d, any weight less than 0.03 grams will automatically be zeroed.

3. 1d is recommended in general for all Acaia coffee scales.

Key Sound Settings

Key Sound Settings can also be configured from the Brewmaster.

- Use this setting to turn the beeping sound on or off.

Zero Range Setting

The Zero Range setting determines the range for which $\top$ 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., +/- 10g for the Acaia Cinco. By pressing $\top$ Button, any weight within +/- 10g 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., +/- 500g for the Acaia Cinco. Therefore, instead of tare operation, zero operation would be executed in this setting whenever $\top$ Button is pressed.

Weighing filter setting

1. The numbers shown in the weighing filter setting indicate the filter parameters, which determines the speed that the load receptor responds to weight. The larger the number, the more stable but slower the weighing result will be.

Default Weighing Unit [default=g]

1. The Default Weighing Unit is set to be gram if [9] is selected and ounce if [$o2$] is selected.

2. Tap $\top$ Button to switch the Default Weighing Unit between gram and ounce.

Power Saving Mode

1. The Default Power Saving Mode is set to 90 secs.

2. The Acaia Cinco will wait for the selected number of seconds to enter Power Saving Mode. The LED display will dim to save power.

Weighing Mode Setting [nodE_1] [default]

1. The default Weighing Mode Setting is set to ON, which means this mode is enabled.

2. ON: The Weighing Mode is enabled.

3. OFF: The Weighing Mode is disabled.

Dual Display Mode Setting [nodE_2]

1. The default Dual Display Mode Setting is set to ON, which means this mode is enabled.

2. ON: The Dual Display Mode is enabled.

3. OFF: The Dual Display Mode is disabled.

Auto Start Mode Setting [nodE_3]

1. The default Auto Start Mode is set to ON, which means this mode is enabled.

2. ON: The Auto Start Mode is enabled.

3. OFF: Auto Start Mode is disabled.

Bluetooth ON/OFF [default=ON]

1. The default Bluetooth is set to ON, which means Bluetooth is enabled.

2. OFF: The Bluetooth is disabled. The scale does not allow any Bluetooth connection.

2. ON: The Bluetooth is enabled. The scale allows Bluetooth connection. User may connect the scale with Brewmaster.

3. Press and hold $\top$ Button for 1 second until [$SLEEP$] is shown to confirm the modification.

Appendix

Error Codes

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 (250% of capacity).
304	Please calibrate the scale in a stable environment free of vibration, wind, 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

Others

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

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