Identification

The instructions in this operation manual apply to the acaia | lunar. 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.
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.
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Chapter 1: Scale at a Glance

Introduction

3. Thank you for choosing one of our scales. The acaia I lunar is designed and manufactured to the most rigorous standard to give you the best coffee brewing experience. Start by checking that your acaia I lunar box contains all the parts listed below:

- acaia I lunar
- Micro USB cable
- acaia Scale Weight 100g
- Heat Resistant Pad

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

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

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

Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aprox. weight</td>
<td>270g</td>
</tr>
<tr>
<td>Capacity</td>
<td>2000g / 70.54oz</td>
</tr>
<tr>
<td>Measuring Units</td>
<td>g, oz</td>
</tr>
<tr>
<td>Weighing range</td>
<td>Maximum capacity: 2000.0g 70.540oz</td>
</tr>
<tr>
<td></td>
<td>Division: 0.1g 0.002 oz</td>
</tr>
<tr>
<td></td>
<td>Reference division: 0.01g 0.0005 oz</td>
</tr>
<tr>
<td>Indication limit</td>
<td>2060.00g / 72.6600oz</td>
</tr>
<tr>
<td>Unit dimensions</td>
<td>105mm(W) x 105mm (L) x 15.5mm (H)</td>
</tr>
<tr>
<td>Electrical Requirements</td>
<td>5V/500mA</td>
</tr>
<tr>
<td>Power and Battery</td>
<td>Lithium-ion rechargeable 3.7V 1100mA</td>
</tr>
<tr>
<td>Display</td>
<td>8 digit LED</td>
</tr>
<tr>
<td>Top</td>
<td>Aluminum construction with acrylic window, touch sensitive buttons</td>
</tr>
<tr>
<td>Bottom</td>
<td>Aluminum construction</td>
</tr>
<tr>
<td>Connectivity</td>
<td>Bluetooth 4.0</td>
</tr>
<tr>
<td>Linearity</td>
<td>+/- 0.2g</td>
</tr>
</tbody>
</table>
Scale Overview

Scale Front
- Weighing Pan
- Power Key
- LED Display
- Tare Key

Scale Back
- Micro-B USB port
# Accessories

<table>
<thead>
<tr>
<th>Micro USB Charging Cable</th>
<th>acaia Scale Weight 100G</th>
</tr>
</thead>
</table>

## Buttons

<table>
<thead>
<tr>
<th>Function</th>
<th>Example</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Power Button</strong></td>
<td></td>
</tr>
<tr>
<td>Turn on</td>
<td>Press and hold for 0.5 seconds to turn on the scale.</td>
</tr>
<tr>
<td>Turn off</td>
<td>Double click to turn the scale off.</td>
</tr>
<tr>
<td>Switch mode</td>
<td>While the scale is turned on, press and hold for 1 second to switch modes: Weighing Mode / Dual Display Mode / Auto Start Modes.</td>
</tr>
</tbody>
</table>
| Start / pause / reset timer | While in Dual Display Mode, press to start/pause/reset timer.  
While in Auto Start Modes, press to reset timer while the timer is paused. |
| Back                   | While in Setup Mode, press to go back to Weighing Mode(Default Setting). |
| **Tare Button**        |                                                                         |
| Tare                   | While in Weighing Mode/ Dual Display Mode/ Auto Start Modes, press to perform tare operation. |
| Tare and reset timer   | While in Auto Start Modes, double click Tare Button to zero weight and reset timer. |
| Switch option          | While in Setup Mode, press to switch options.                           |
| Confirm                | While in Setup Mode, press and hold for 1 second to confirm the option selected. |
| Enter calibration mode | While in Weighing Mode, continuously press multiple times to enter Calibration Mode. |

* Please see **Chapter 3: Basics** for more details.
LED Indicators

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

- It takes 1-2 hours to fully charge the battery. You can charge the battery more frequently so that it will never run out of charge.

- Battery percentage can be viewed in acaia Apps.

- 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.

- 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.
Charging and Setup

- 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.

- Press button for 0.5 seconds to turn on the scale.
Chapter 3: Basics

An Overview of Operation Structure

Press and hold \( \bigcirc \) key for even longer or double click will turn the instrument off.

0. Power On  \( \bigcirc \)  1. Weighing Mode  \( \bigcirc \)  2. Dual Display Mode

5. Auto Start Mode  \( \bigcirc \)  4. Auto Start Mode  \( \bigcirc \)  3. Auto Start Mode

TTTT \( \bigcirc \)

6. Calibration Mode

7. Setup Mode

Key operations:

TTTT \( \bigcirc \) key for several times.

\( \bigcirc \) Press and hold \( \bigcirc \) key for about 1 seconds.

\( \bigcirc \) \( \bigcirc \) Press and hold both \( \bigcirc \) key and \( \bigcirc \) key.
Basic Operations

Turn On
- Press and hold  button for 0.5 seconds to turn on the scale.

Turn Off
- Double click  button to turn off the scale.

Switch Modes
- Press and hold  button for 1 second each time to toggle through different modes.

Key operations:
- Click  key.
- Press and hold  key for about 2 seconds.
- Click  key.

Chapter 3: Basics
Weighing Mode

Display
- There are two different weighing units in Weighing Mode: grams and ounces. It can be identified if the upper right LED is light on. If the LED is light on, the weighing unit is ounce.
- The readability is 0.1g or 0.002oz base on the weighing unit selected in Setup Mode.
- For high resolution mode, the readability is 0.01g or 0.0005oz.
- Note: To change default weighing unit, please see Chapter 4 Default Unit Setting for more information.

Operation
1. Press button for tare (zero) operation.
2. Press and hold button for 1 second to switch to Dual Display Mode.

Dual Display Mode

Display
- The LED display shows [0:00 0.0] with timer on the left and the weight value on the right.

Operation
1. Press button to start/pause/reset the timer.
2. Press button to tare the weight.
3. Press and hold button for 1 second to switch to Auto Start Mode (please insert the Droplet icon here).

Note
1. The maximum time that can be displayed is 9 minutes and 59 seconds.
2. When the limit is reached, the timer still goes up until 999 minutes and 59 seconds. It can be observed by iOS/Android App.
Auto Start Modes

Display

1. The LED display shows [0:00 0.0] with timer on the left and the weight value on the right.

2. The timer displays from [0:00] to [9:59] and then the timer will stop.

Status Icon

The icon indicator LED on the right side, if the status icon lights on, the scale is under Auto Start Mode.

1. Droplet  ⌈ : When the scale detects the water flow, the timer starts. The timer will stop when the water flow stops.

2. Triangle ▲ : The scale performs auto-tare operation when placing stable weight on the Lunar, then starts the timer

3. Square ■ : When placing stable weight on the scale, the scale will perform auto-tare operation.
Mode Description

1. Droplet ▲
   - The scale detects the espresso flow, then the timer starts.
   - When the espresso flow stops with the timer running, the timer stops.

   1. In this mode, except the espresso flow, the scale do not perform operation automatically.
   2. The weight will show on the screen.
   3. Tare the weight manually.
   4. The scale detects the espresso flow, then the timer starts.
2. **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 in a busy environment.

- When placing a stable weight on the scale, the scale will perform auto-tare operation.
- After the scale detects the espresso flow, the timer starts. The timer will stop when the espresso flow stops.

1. This mode is designed for baristas who would like to measure the time of the shot starting from the first few drops of espresso in a busy environment.

2. When placing a stable weight on the scale, the scale will perform auto-tare operation.

3. The scale will perform auto-tare operation.

4. After the scale detects the espresso flow, the timer starts.
3. Triangle and Square

In this mode, the barista would like to measure the total time of a shot including the pre-infusion time. After placing a stable weight such as a cup on the scale, it performs auto-tare operation, then the timer starts.

1. In this mode, the barista would like to measure the total time of a shot including the pre-infusion time.

2. After placing a stable weight such as a cup on the scale, it performs auto-tare operation, then the timer starts.

3. Measure the total time of a shot including the pre-infusion time.

4. When the espresso flow stops with the timer running, the timer stops.
Note:

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

2. In all Auto Start Modes, if you do not operate the scale for 30 seconds, it will reset timer and perform tare operation.

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

4. The scale will also display a previous stable weight that captures the coffee weight of the shot when you unloaded the cup.
Operation

1. Press \(\textcircled{}\) button to start/pause/reset the timer.
2. Press \(\uparrow\) button for tare (zero) operation.
3. Press \(\downarrow\) button twice to reset timer and tare weight.
4. Press and hold \(\textcircled{}\) button for 1 second to switch to Auto Start Modes. If the Triangle and Square icon indicator are light on, press and \(\textcircled{}\) button for 1 second will switch to Weighing Mode.
Chapter 4: Configuration

Operations for Setup Mode

Steps to enter Setup Mode

1. Press and hold \( \text{宐} \) button while turning ON the scale. When the LED display shows \([ \text{ACAIA} ]\) and then \([ \text{Set} ]\), press and hold \( \text{T} \) button for another 1 second without releasing \( \text{宐} \) button. Release both \( \text{宐} \) and \( \text{T} \) buttons when the display shows \([ .0000 ]\) with the very left 0 flashing.

2. Press and hold \( \text{T} \) button for 1 second to move the flashing digit to the right. Repeat this step for 3 times.

3. Press and hold \( \text{T} \) button for 1 second to confirm the password, and to enter the first setting in Setup Mode: the LED display shows \([ \text{Sleep} ]\).

Key Operations in Setup Mode

1. Press \( \text{T} \) button to toggle through setting menu or the options under each setting.

2. Press and hold \( \text{T} \) button to enter each setting or to confirm the selected option.

3. Press \( \text{宐} \) button to save changes and return Weighing Mode from setting menu.
Diagram of Setup Mode Settings

Auto switch off setting
- SLEEP
  - 5

Zero tracking setting
- trAcE
  - 2d

Key sound setting
- bEEP
  - OFF
  - ON

Zero range setting
- OrAnGE
  - 2
  - 100

Weighing filter setting
- F.iE.
  - 32

Default weighing unit setting
- Un iE
  - OZ
  - g

Weighing resolution setting
- rESol
  - hiGh
  - dEFAUL

Weighing mode setting
- Node_1
  - OFF
  - ON

Dual display mode setting
- Node_2
  - OFF
  - ON

Auto start mode ( ◄ ) setting
- Node_3
  - OFF
  - ON

Auto start mode ( ► ) setting
- Node_4
  - OFF
  - ON

Auto start mode ( ▲ ▼ ) setting
- Node_5
  - OFF
  - ON

Reset password setting
- rESEt.d
  - Yes
  - No

Bluetooth setup setting
- bt_SET
  - OFF
  - ON

Key operations:
- Click T key.
- Press and hold T key for about 2 seconds.
- Click ◄ key.
Auto Switch Off Setting [ SLEEP ]

1. Auto Switch Off Settings can also be configured in the acaia Apps.
2. 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 being idle, while the scale is disconnected from all mobile devices and no operation has been performed on the scale.
3. Press \( T \) button to toggle through the options.
4. Press and hold \( T \) button for 1 second until the next setting, [ Trace ], is shown on LED to confirm the selected option.

Zero Tracking Setting [ Trace ]

1. Zero Tracking is a function for maintaining the zero indication within certain limits automatically.
2. OFF: It is not recommended to turn off the Zero Tracking because the zero indication would draft easily as room temperature changes.
3. 0.5d~3d: For example, for standard resolution 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 gradually.
4. 2d is recommended in general for acaia | lunar.
5. Press and hold \( T \) button for 1 second until the next setting, [ bEEP ], is shown on LED to confirm the selected option.

Key Sound Setting [ bEEP ]

1. Key Sound Settings can also be configured in the acaia Apps
2. Set the Key Sound function off to turn off the beeping sound or on to turn on the beeping sound.
3. Press and hold \( T \) button for 1 second until the next setting, [ O.rAnGE ], is shown on LED to confirm the selected option.
Zero Range Setting  \([0 \cdot rAnGE]\)

1. Zero Range setting determines the range for which \(\text{T}\) button executes zero operation instead of tare operation.

2. When Zero Range is set to 2, the range for zero-setting will be 2% of the capacity, i.e., +/- 40g for acaia I lunar. By pressing \(\text{T}\) button, any weight within +/- 40g is zeroed out by zero operation while any weight lays outside the range is tared out by tare operation.

3. If Zero Range is set to 100, the range for zero-setting will be 100% of the capacity, i.e., +/- 2kg for acaia I lunar. Therefore, instead of tare operation, zero operation would be executed in this setting whenever \(\text{T}\) button is pressed.

4. Press and hold \(\text{T}\) button for 1 second until the next setting, \([F, \ell, \ell.]\), is shown on LED to confirm the selected option.

5. 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  \([F, \ell, \ell.]\)

1. The number shown on LED 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.

2. Press \(\text{T}\) button to change the parameter.

3. Press and hold \(\text{T}\) button for 1 second until the next setting, \([\text{Unit}\ell]\) is shown on the LED to confirm the selected parameter.

Default Unit Setting  \([\text{Unit}\ell]\)

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

2. Press \(\text{T}\) button to switch the Default Weighing Unit between gram and ounce.

3. Press and hold \(\text{T}\) button for 1 second until \([rESol]\) is shown on LED to confirm the selected option.
Weighing Resolution Setting [ Default ]

1. The default Weighing Resolution is set to [ Default ]; the division is 0.1g / 0.02oz.

2. Press \( \text{T} \) button to switch the weighing resolution between [ Default ] and [ High ].

3. When the Weighing Resolution is set to high, division will be 0.01g/0.0005oz. The default display will show [ 0.00 ] in Weighing Mode.

4. Press and hold \( \text{T} \) button for 1 second until [ NODE_1 ] is shown on LED to confirm the selected option.

5. 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 Mode Setting [ NODE_1 ]

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.

4. Press and hold \( \text{T} \) button for 1 second until [ NODE_2 ] is shown on LED to confirm the selected option.

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.

4. Press and hold \( \text{T} \) button for 1 second until [ NODE_3 ] is shown on LED to confirm the selected option.

Auto Start Mode \( \uparrow \) Setting [ NODE_3 ]

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

2. ON: The Auto Start Mode with Droplet is enabled.

3. OFF: The Auto Start Mode with Droplet is disabled.

4. Press and hold \( \text{T} \) button for 1 second until [ NODE_4 ] is shown on LED to confirm the selected option.
Auto Start Mode ▲ ■ Setting[ NodE_4 ]

1. The default Auto Start Mode with Droplet and Square Setting is set to ON, which means this mode is enabled.
2. ON: The Auto Start Mode with Droplet and Square is enabled.
3. OFF: The Auto Start Mode with Droplet and Square is disabled.
4. Press and hold button for 1 second until [NodE_5] is shown on LED to confirm the selected option.

Auto Start Mode ▲ ■ Setting[ NodE_5 ]

1. The default Auto Start Mode with Triangle and Square Setting is set to ON, which means this mode is enabled.
2. ON: The Auto Start Mode with Triangle and Square is enabled.
3. OFF: The Auto Start Mode with Triangle and Square is disabled.
4. Press and hold button for 1 second until [rESEt.d] is shown on LED to confirm the selected option.

Reset Password Setting [ rESEt.d ]

1. Select [YES] to clear the bluetooth connection password.
2. Press and hold button for 1 second until [bt.SET] is shown on LED to clear the password.

Bluetooth Setup Setting [ bt.SET ]

1. 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 acaia Apps.
3. Press and hold button for 1 second until [SLEEP] is shown to confirm the modification.
Appendix A. Smart-Calibration

If you decide to calibrate your scale, it will only be as good as the accuracy of the calibration weights you use.

*Note: If you use weights other than acaia Weights, we recommend standard weights with class F\textsubscript{1} or F\textsubscript{2}.

Calibration Mode

1. While the scale is in Weighing Mode and the weighing unit is in gram, press \textcircled{T} button quickly multiple times until LED display shows [ \text{CAL} ] and then [ 500.00 ].

2. Place a acaia 100 weights 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:

1. If your Weighing Mode is disabled, please refer to Chapter 4: Weighing Mode Setting to turn on.

2. If you use weights other than acaia Weights, we recommend standard weights with 100g*n. For example, 500g or 1000g.
# Appendix B. Display Codes

## Error Code List

<table>
<thead>
<tr>
<th>Error Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>100</td>
<td>Code error</td>
</tr>
<tr>
<td>101</td>
<td>EEPROM error</td>
</tr>
<tr>
<td>102</td>
<td>AD read error</td>
</tr>
<tr>
<td></td>
<td>Over load: the weight is over the maximum capacity.</td>
</tr>
<tr>
<td></td>
<td>Under load: the weight is under the minimum capacity.</td>
</tr>
<tr>
<td>303</td>
<td>Unable to make zero point, for the initial weight exceeds the limit (50% of capacity).</td>
</tr>
<tr>
<td>304</td>
<td>Weight calibration error.</td>
</tr>
<tr>
<td>904</td>
<td>Password error (the default password is 0000)</td>
</tr>
<tr>
<td>_H2O</td>
<td>Water in the Power Button</td>
</tr>
<tr>
<td>H2O_</td>
<td>Water in the Tare Button</td>
</tr>
<tr>
<td><em>H2O</em></td>
<td>Water in the Power Button and Tare Button</td>
</tr>
</tbody>
</table>

## Others

<table>
<thead>
<tr>
<th>Display Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>UPdAtE</td>
<td>The scale is in update mode. Note: If you want to leave update mode, please plug the scale's USB to a power source.</td>
</tr>
</tbody>
</table>