


7


Start Measuring Samples

The Beacon measures the potency percent (percent weight) of each of these values: THC-A, Delta-9 THC, Total THC, Total Potential THC, CBD-A, CBD, Total CBD and Total Potential CBD*

On the touchscreen, choose your sample type and continue:



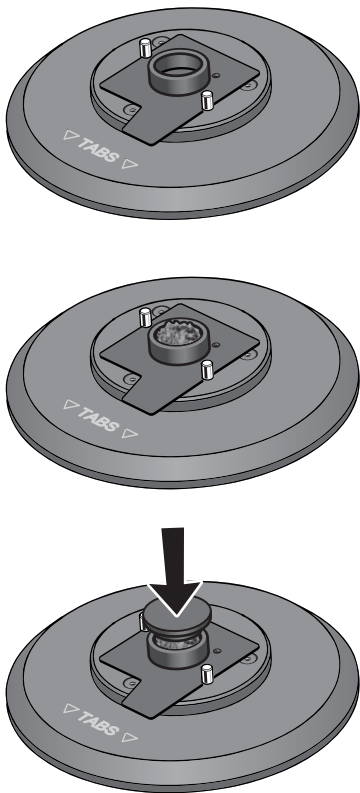
Dry Sample
Buds and Trimmings



Concentrate
Extracts, hash, waxes, and products you can see through

Dry Sample (Buds, Trimmings)

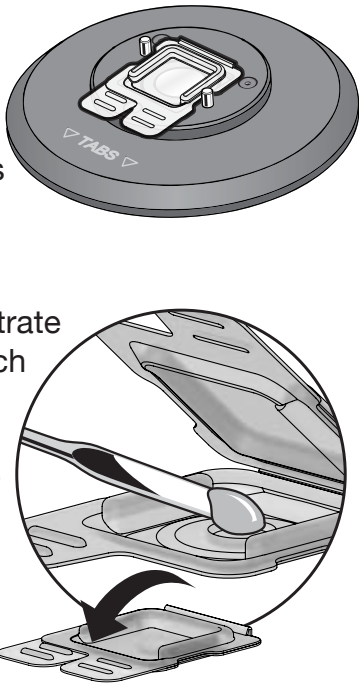
- 1 Clean the measurement window, ensuring there is no residue or haze remaining.
- 2 Place the clean, empty bud holder on the measurement window, aligning the holder with the adjacent pins.
- 3 Loosely fill the bud holder all the way to the top with ground sample.
- 4 Press the bud holder cap in place, which compresses the sample for measurement.
- 5 Press **CALC** to obtain the potencies for the sample.
- 6 Once the potencies are displayed on the touchscreen, enter the relevant information regarding the product name, sample type, and your name.
- 7 Press **PRINT** to print out the CannaMetric™ Profile Label.



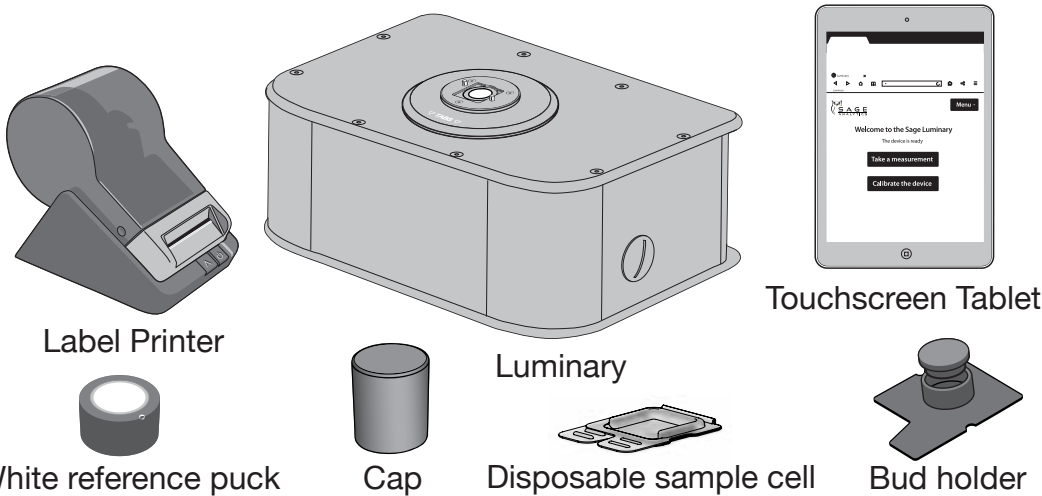
Concentrate (Extracts, Waxes, Hash, Kief)

A disposable sample cell is used to measure concentrates. The cell contains an external reflector (the white side) that is used to pass the light shone through the sample, back through the sample, and on to the instrument detector.

- 1 Snap the disposable sample cell halves together. Place the empty disposable sample cell onto the measurement window such that the round indentation in the center of the disposable is on the bottom, and press **NEXT**. This will establish a baseline measurement for just the sample cell.
- 2 Using the **same** sample cell, add the concentrate to the indentation inside the sample cell, which is the sample well, and snap the cell shut. We recommend adding a small amount with a spatula and spreading evenly in the sample well. Only fill the round well; there is no need to fill the entire inside of the sample cell, as only the sample contained in the well will be measured. Given the thickness of these types of samples, a little can go a long way.
- 3 Place the disposable sample cell onto the measurement window such that the round indentation in the center of the disposable is on the bottom, and press **NEXT**. The cell is designed to fit in the square portion of the Beacon measurement window.
- 4 Press **CALC** to obtain the potencies for the sample.
- 5 Once the potencies are displayed on the touchscreen, enter the relevant information regarding the product name, sample type, and your name.
- 6 Press **PRINT** to print out the CannaMetric™ Profile Label.



The Luminary™ Profiler Quick Start Guide



The Luminary Profiler performs an instantaneous and accurate measurement of potency in cannabis products. It shines and analyzes near infrared light to report on information about the molecules in each sample.

 The Luminary uses light. Measurement accuracy requires cleanliness.

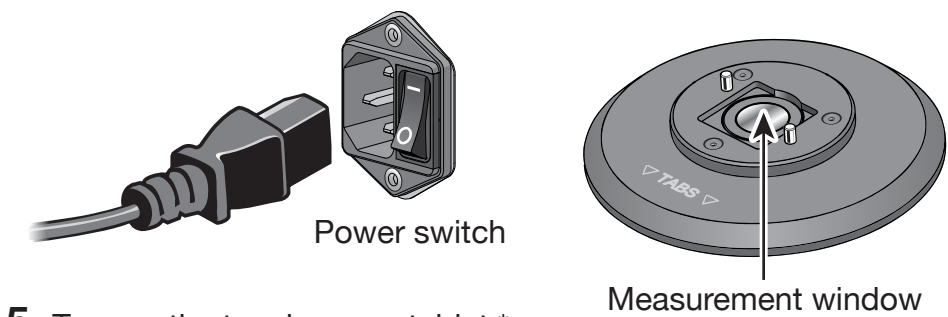
- 1 Set Up the System
- 2 Start the Luminary Touchscreen Interface
- 3 Wait 20 Minutes for Warm Up
- 4 Clean the Measurement Window
- 5 Conduct a Black Calibration
- 6 Conduct a White Calibration
- 7 Start Measuring Samples

Note: Steps 2 through 6 must be conducted every time the Luminary is turned off and back on again.

*Refer to the “Cannabinoid Explanation” sheet for further information on each of these values.

1 Set Up the System

- 1 Carefully remove the Luminary from the box.
- 2 Place the unit on a flat and stable work surface. Keep it away from any bright lights or strong air flow, such as a fan.
- 3 Plug in the Luminary and turn it on. If you look at an angle into the middle of the measurement window, the fiber optic light should be on:



- 5 Turn on the touchscreen tablet.*
- 6 The tablet will connect to the Luminary automatically over WiFi.
- 7 Connect the Label Printer using the USB port on the Luminary, and plug the printer power supply into the wall.

2 Start the Luminary Touchscreen Interface

The Luminary system utilizes a web-interface for system control. After turning on the Luminary base unit and the Touchscreen Tablet:

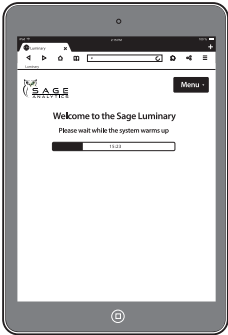
- 1 On the touchscreen, open the Mercury web browser.
- 2 In the Mercury web browser, click the bookmark for the Luminary to start calibration and measurement.
- 3 Follow the rest of this quick start guide as a supplement alongside the touchscreen instructions.



*Refer to the “Using the iPad Complimentary to the Luminary Profiler” document for further instructions.

3 Wait 20 Minutes for Warm Up

When you first turn it on, the Luminary requires 20 minutes for the lamp to warm up and reach a stable system temperature. On the touchscreen, the warm up window looks like this:



4 Clean the Measurement Window

The Luminary sees the sample through the measurement window. It is critical to keep this window clean by using rubbing alcohol wipes.

- 1 When warm up is complete, press **Calibrate the device** on the touchscreen.
- 2 Clean the measurement window:



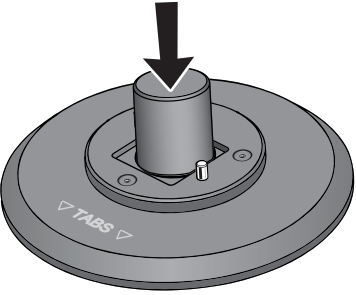
Tips

- The cleaner the window the more of the sample is detected and reliably measured.
- Clean the window after **every** measurement. If a haze remains after cleaning, wipe with a dry, lint-free cloth.
- Let the window **dry completely** before you place a sample on it.
- The window is made of sapphire and is very difficult to scratch (but please don’t try).

5 Conduct a Black Calibration

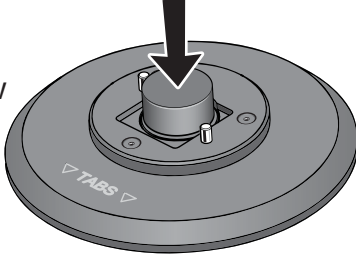
A daily calibration is required to normalize the system. It must be known how the Luminary responds to the maximum amount of light coming into the window (a white calibration) and no light coming in (a black calibration).

- 1 Get the cap:
- 2 Place the hollow end of the black cap over the measurement window, ensuring it touches the curved notch.
- 3 Press **NEXT** to perform the calibration.
- 4 Store black cap for future calibration.



6 Conduct a White Calibration

- 1 Center the white side of the puck over the window making sure that the window is completely covered.
- 2 Press **NEXT** to perform the calibration. When complete, remove the white calibration puck and appropriately store.



! The white reference is encapsulated in glass. Be careful not to touch the white area, get it dirty, or scratch the glass. The Luminary assumes the white area is 100% reflective for producing a maximum signal for measurement. Use rubbing alcohol to clean it when necessary.