



## F-750

### ■ Produce Quality Meter

The F-750 Produce Quality Meter non-destructively and rapidly analyzes internal traits of fresh produce through near infrared analysis (NIR). The F-750 sends particles of light into the fruit and then measures the light interactance with molecules to assess the quantity of key quality traits. The model-building software included with the device allows for customizable calibration for specific varieties and regions.

**Measure produce quality  
quickly and non-destructively!**

## Product Features

- ▶ Measures traits including:
  - Total Soluble Solids (TSS or brix)
  - Dry Matter
  - Titrateable Acidity
  - Internal Color
  - External Color
- ▶ Light-weight, portable, and field-ready
- ▶ Fast and consistent—scans take 4-6 seconds per sample
- ▶ Non-destructive measurements
- ▶ Built-in GPS for easy crop mapping
- ▶ Transflective display for outdoor viewing
- ▶ Rechargeable/replaceable batteries that last all day
- ▶ Wi-Fi capabilities
- ▶ Ability to create unlimited customizable models for specific varieties or locations
- ▶ The F-750 supports English, and Portuguese on the instrument display.
- ▶ Use the optional Liquids & Powders Kit to make measurements on commodities in the liquid or powder state

## F-750 Specifications

<b>Spectrometer</b>	Carl Zeiss MMS-1 Spectrometer
<b>Range</b>	310-1100nm
<b>Spectral sample size</b>	3nm
<b>Spectral resolution</b>	8-13nm
<b>Light source</b>	Xenon Tungsten Lamp
<b>Lens</b>	Glass, coated to enhance NIR
<b>Shutter</b>	Gold-plated reference standard
<b>Display</b>	Sunlight visible transfective LCD screen
<b>PC interface</b>	USB and Wi-Fi SD card
<b>Data recorded with each measurement</b>	Raw Data, Reflectance, Absorbance, First Derivative Absorbance, Second Derivative Absorbance
<b>Power source</b>	Removable 3100 milliamp hour lithium-ion battery
<b>Battery life</b>	1600+ Measurements
<b>Data storage</b>	Removable 16 GB Wi-Fi SD card
<b>Body</b>	Heavy-duty anodized aluminum body
<b>Weight</b>	1.05 kg



## Applications

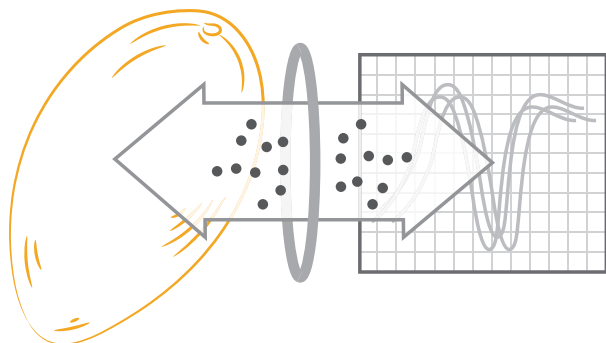
- Optimization of crop management and harvest-timing for fresh produce growers:

Mangoes, avocados, apples, pears, citrus, tomatoes, stone fruit, blackberries, cherries, persimmons, grapes and many more!

- Postharvest quality management in cold storage and ripening rooms
- Import quality assessment
- Retail outlet inspection

## Make a Custom Model

Your F-750 comes with pre-programmed demo models for a range of commodities. Try one of these models to familiarize yourself with the F-750, or create a custom model for precise measurements.



Visit our website to learn more about how the F-750 is being used around the world.



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