



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

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



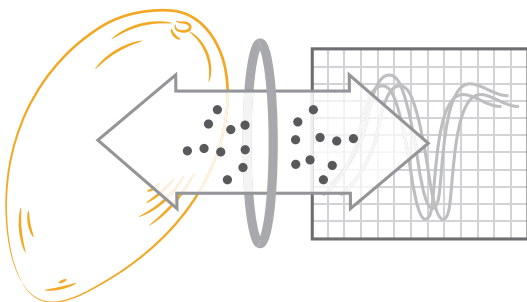
Applications

- ▶ 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

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

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.



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