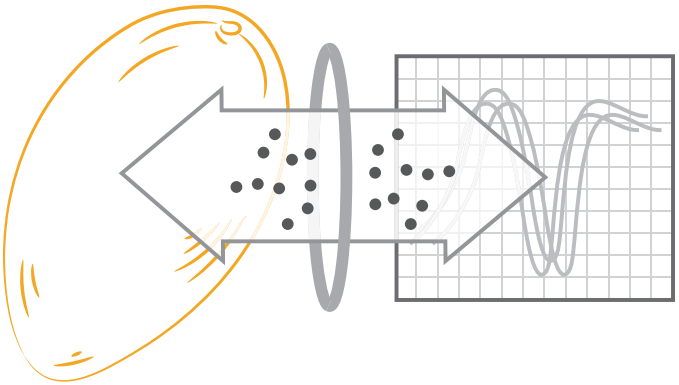
FELIX INSTRUMENTS
APPLIED FOOD SCIENCE

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
  - Titratable 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
- Ability to create unlimited customizable models for specific varieties or locations

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 transflective LCD screen
PC interface	USB and 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 4GB SD card
Body	Heavy-duty anodized aluminum body
Weight	1.05 kg

How to Make a Custom Model

- Scan 80-200 fruit samples with the F-750 Produce Quality Meter
- Destructively measure the desired quality parameter (i.e. measure Total Soluble Solids—TSS or brix—with a refractometer) on the scanned portion of the 80-200 fruit samples
- Using the included F-750 Model Builder Software, combine the spectral data with the destructive data to create a new model
- Now the F-750 can rapidly and non-destructively measure the desired quality parameter, saving you time and money

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

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