FELIX INSTRUMENTS
APPLIED FOOD SCIENCE

F-750
Produce Quality Meter

The ability to measure apple quality rapidly and consistently is crucial for:

- Maximizing value
- Optimizing shelf-life
- Increasing consumer satisfaction

Traditional methods for measuring apple quality indicators have been destructive, subjective, and time-consuming.

Now, with the F-750 Produce Quality Meter, professionals in the apple industry can have superior control over the quality of their fruit without damaging the product.

Growers
can accurately predict and anticipate optimum harvest time

Packers
can systematically cull and classify produce with ease and efficiency

QA Professionals
can build models based on objective metrics such as flavor index, and consumer preference

Receivers
can rapidly inspect the quality of their imports for specific markets

Product Features

- **Non-destructive tool** for measuring internal qualities of fruits
- Measures in under 5 seconds
- Collects data pre- or post-harvest
- Measures multiple qualities with a single scan
  - Total Soluble Solids, or "Brix"
  - Dry Matter
  - Titratable Acidity
  - External Color

Getting Started:

Building a model with the F-750 for non-destructive measurement of Dry Matter in Apples

In September 2015, the F-750 was used to build a model for apples that will allow for ongoing non-destructive measurement of dry matter with the instrument.

1 Collecting the Data

Non-destructive Measurement

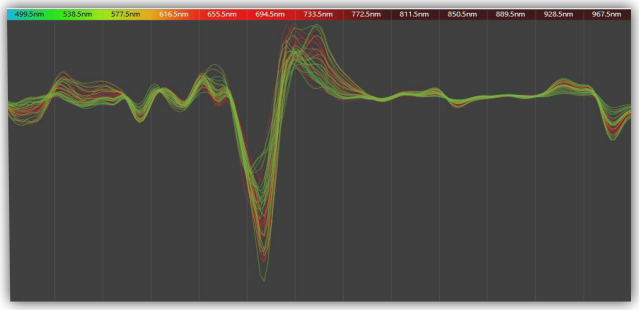
47 apples were scanned using the F-750 to create a training set for a Dry Mattter model.

Destructive Measurement

The same apple regions were destructively measured for Dry Matter using our documented Standard Operating Procedure.

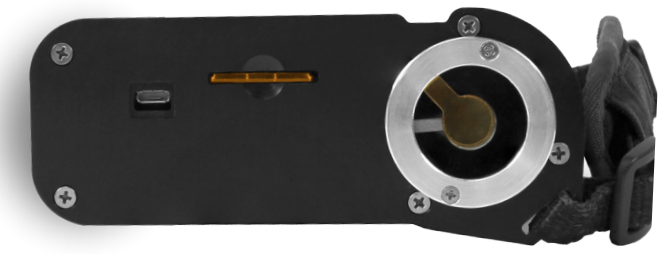
2 Building the Model

Training set values collected by the F-750 were matched with destructive reference values using Model Builder Software. Using a spectral range of 729-975 nm, a new Apple Dry Matter Model was created with an R^2 of 0.72.



3 Execution

Use the apple model repeatedly over the course of the season to non-destructively measure Dry Matter.



Authorized Distributor:
GasDetectorsUSA.com
Houston, TX USA
832-615-3588
sales@GasDetectorsUSA.com