SCiO by Consumer Physics

Distributed by: PRECISION CALIBRATION & EQUIPMENT

Instant, In-Field Corn Kernel Moisture Analysis

For the first time: Fast & accurate high moisture testing

SCiO is a material sensing platform that provides lab quality analysis in the field. It enables farmers, agronomists, and others to make timely decisions and improve efficiencies, with an innovative NIR spectroscopy platform that is cloud connected, portable, easy to use, and affordable.

Smart real-time analysis

- Analyze corn kernel moisture directly on the cob. Get results in less than a minute via an app on your phone
- Test ear corn moisture levels from 8% to 80% moisture in the field
- Real-time map: see the variation of moisture in a specific field, plot or area
- Accurately estimate harvest timing
- Plot results to estimate drying costs and overall corn quality
- Trusted by major global seed companies

HASSLE-FREE

No more de-kernelling / shelling of the ear to obtain samples

FASTEST RESULTS

Get results within less than one minute vs other conventional methods

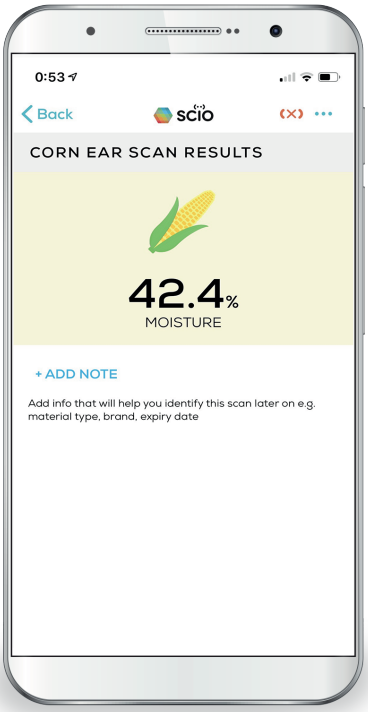
ENTIRE FIELD

Obtain more accurate field representation by scanning more ears within a field or plot

Tel: 519-401-3500 | Email: sales@consumerphysics.com | www.precisionce.com

Fast & Simple

1. Peel back husk and hold sensor against the corn ear
2. Scan five times
3. Click 'Analyze' to get results within seconds



Cloud-Connected, Mobile Phone Operated

- Operated via mobile phone (iOS, Android). Download on the App Store · GET IT ON Google Play
- Connect to SCiO device via Bluetooth
- Calibration is updated seamlessly and continuously in the cloud
- A single cloud-based calibration supports unlimited amount of units in the field
- All scans are saved in your cloud account
- Review past results via app or web dashboard
- Manage users within your organization

Specifications

- Collect up to fifty (50) ears on one charge
- Scan while charging via standard Micro USB (provided with unit)
- Includes a dedicated adaptor that protects against direct sun light-illumination and a neck carrying lanyard with safe quick-release mechanism
- Rugged and shock resistant, designed for in-field applications

Calibration Specifications

- Moisture range supported: 8 – 80%
- Sample temperature range: 10 – 38 0C (50 – 100 0F)
- Precision: 0.2%
- Single ear RMSE (root-mean-square error): 1-2% (depends on moisture range)
- Reference method: 72 hours oven drying
- Number of samples in database: >1000
- Samples' database geographies: U.S., Europe, Latin America

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