

Instant, In-Field Ear Corn Moisture Analysis



Fast and accurate

SCiO is a material sensing platform that provides lab quality analysis in the field. It enables farmers, seed corn production managers, researchers, 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 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 directly 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 or shelling of the ear to obtain samples



Fastest Results

Get results within less than one minute compared to other conventional methods



Entire Field

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

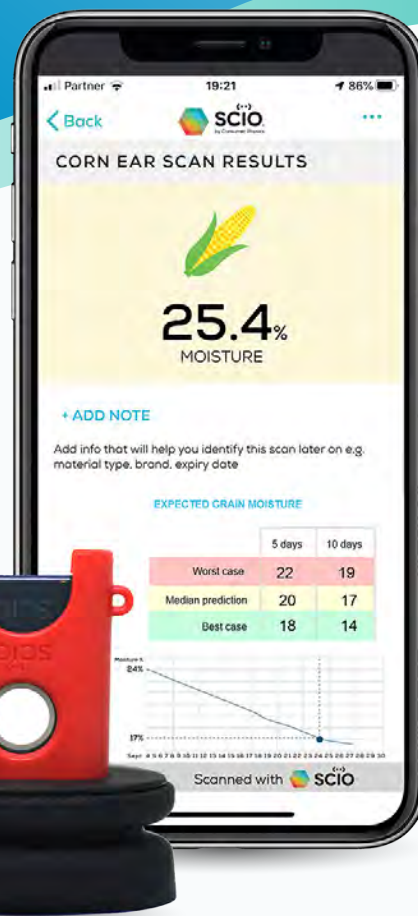
1 Peel back husk and hold sensor against the corn ear

2 Scan five times

3 Click 'Analyze' to get results within seconds

Cloud-Connected, Mobile Phone Operated

- Operated via mobile phone (iOS, Android)
- 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
- See trends across time
- Manage users within your organization
- Enterprise support Monday-Friday; Services will be provided in accordance with our standard Service Level Agreement



Specifications

- Collect up to 50 ears on one charge (when scanning each about 5 times. Can also collect 250-300 scans total in a single charge if performing one scan per ear.
- Scan while charging via standard Micro USB cable (provided with unit)
- Includes a dedicated adapter 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: 3-38 C° (37-100 F°)
- Precision: 0.2%
- Single ear RMSE (root-mean-square error): 1-2% (depends on moisture range)
- Reference method: 72 hours oven drying (USDA standard)
- Number of samples in database: >1000
- Samples' database geographies: U.S., Europe, Latin America