LemnaTec
MEMBER OF THE NYNOMIC GROUP

SEEDAIXPERT

The Fastes Digital Seed Testing System

LemnaTec AIxpert Product Family

Documentation, Phenotyping, Seed Testing and more

SEEDAIXPERT

The fastest digital seed testing system measuring seed, germination, and seedling emergence quality.

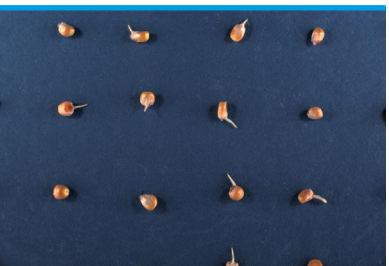
- For paper-based germination assays and seedling emergence tests
- Save time and labor in seed testing
- Overcome inconsistent assessments by digitizing the inspection
- For many samples in lab application
- Reproducible and standardizable through unified imaging and analysis
- Ihe digital seed testing system for breeders, testing labs, and researchers

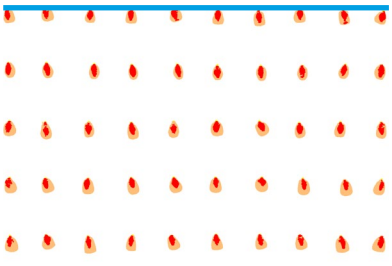
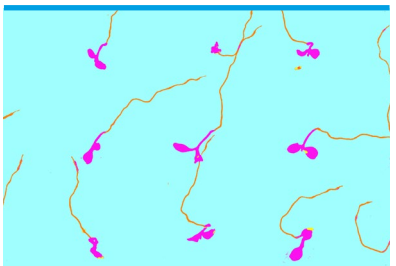
Features

- Reliable technology that makes seed testing easy
- Image acquisition, storage, analysis, and retrieval
- Image annotation, metadata recording
- Metadata and annotation directly linked to image
- Advanced image processing algorithms including machine learning
- Structured image file administration system
- Easy export of images, data, and analyses
- Intuitive graphical user interface
- High-resolution industrial camera
- Artificial intelligence enables seed and seedling quality assessments

> *In our seed testing lab, four people are responsible for rating the quality of germination. Despite having strict criteria for visual inspections, results tended to differ among colleagues. To be honest, working speed and accuracy decreased during the day when there were lots of samples to be processed. Having recently introduced LemnaTec's SeedAIxpert, we were able to increase the throughput and eliminate deficient estimates, often caused by inaccurate personal performance. Our seed testing has now become reliably standardized, comparable and repeatable.*
>
> *Jone, Seed Testing Expert*

Customers' application examples



Two models to choose from

SeedAIxpert

- Manual sample loading and image recording
- Intuitive user interface
- On-board analytics

SeedAIxpert Pro

- Automated imaging system
- Automated loading of samples from a trolley
- Trolley transport system for multiple samples
- On-board analytics

Optional accessories

- Image calibration object—ensure constant image quality
- Sample holders for seed germination and seedling emergence trays
- Seed germination and seedling emergence trays matching with the system
- Germination paper
- Barcode reader
- Barcode printer
- Sample stage as lightbox—for samples requiring bottom illumination

Future features

- Database connectivity
- Cloud services

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