

Jill Gagnon, Comtree Inc.
Canadian Distributor for Tagarno Products

TAGARNO



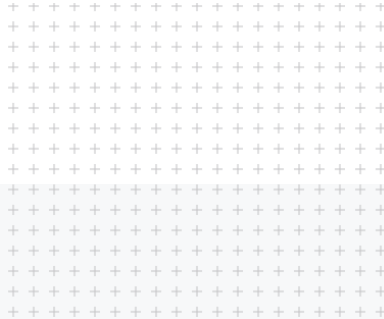


ABOUT

TAGARNO

- Founded in 1971, Denmark, Scandinavia
- Leading global supplier within our niche
- Deliver intelligent, intuitive, and agile tools for many industries (electronics, medtech, foods, agriculture, plastics, metals, etc.)
- Allow you to see smarter
- Benefits:
 - Maximize your efficiency
 - Enhance your communication
 - Increase your collaboration
 - Improve your work environment
 - Improve workspace ergonomics

TAGARNO DIGITAL MICROSCOPES



Good for business, good for people!



Business

- ✓ **Optimize your processes**
Leaner workflow, increased output
- ✓ **Cost effective, all-in-one solution**
Everything is built-in, no extra equipment needed
- ✓ **A good investment**
Long-lasting product with low (or no) maintenance



People

- ✓ **User friendly, it's plug & play**
Requires minimum training for new operators
- ✓ **Ergonomics, health benefits**
Working postures adjustable to operator needs
- ✓ **Multiviewer collaboration**
External display for several viewers in person or online

Exceptionally Unique



- **Base magnification range** with continuous optical zoom is 1.7x-53x with a working distance of over 9 inches
- **Generic camera drivers** for simple 'plug and play' capability with software such as Microsoft Teams, Zoom or Laboratory Information Management (LIM) systems
- **Tagarno's open API** is uniquely suited to create easier AI training programs
- **Motorized Near-Infrared (NIR) changeover** to switch from visible light to NIR observation without changing lens or filters
- **Footswitch** control for hands-free zoom operation
- **Real-time autofocus and aperture control** with manual overrides
- **Real-time full-resolution video** (60 frames per second/1080p) to stream and/or store via USB 3.0
- **Tagarno is a great partner** to their clients and sensitive to customer needs

Agriculture References

BASF

Syngenta

Bayer Crop

Science

Monsanto

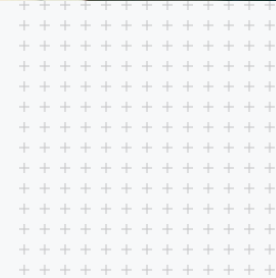
Sakata Seed

Limagrain

Eurofins

DLF-Trifolium

DSV Seeds



CASE – NORDIC SEED

Happier and healthier employees

Operators at Nordic Seed, a Danish seed company, used to suffer from **frequent sick leaves, massive head aches and stiff necks** from working when using stereo microscopes 37 hours a week.

After changing to digital microscopes, Laboratory Technician Helle Holdgaard emphasizes the ability to change

work posture throughout the day by alternating between sitting down and standing up, as a **key reason for a healthier work environment** and reducing sick leave.

This flexible setup was also crucial in Helle being able to return to work quicker than expected after being involved in a traffic accident.





AGRICULTURE

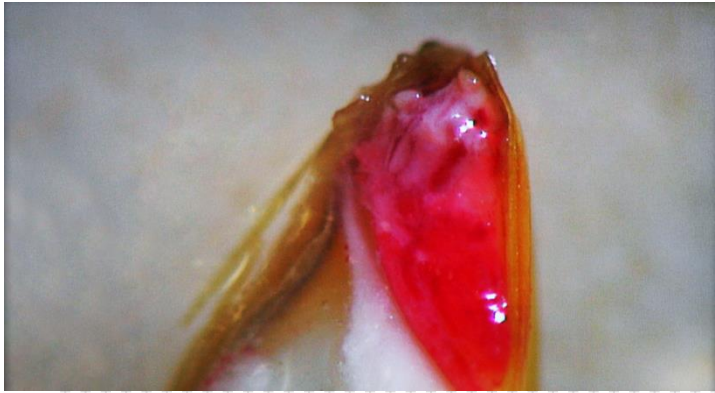
Applications

Seed germination testing >

Purity analysis >

Variety identification >

Seed coating quality analysis >



AGRICULTURE APPLICATION

Seed germination and tetrazolium testing

TAGARNO's digital microscopes are an efficient tool for **germination capacity** and for performing **tetrazolium tests**.

High quality images clearly display development during germination capacity testing. Photos can be captured automatically or manually with ease.

AGRICULTURE APPLICATION

Purity analysis

The TAGARNO digital microscopes are efficient tools for purity analysis of seeds and grains.

When zooming in on the seeds, you can rapidly spot **impurities** such as weed seeds and seeds of other species such as broken seeds, soil particles or any other non-seed items. You will also be able to perform **Pure Seed Definitions** and test the **variety** of your seeds.





AGRICULTURE APPLICATION

Variety identification

TAGARNO's digital microscopes are the perfect tool for a **varietal admixture**.

You can easily **zoom in** to check the grain shape, the pigmentation, the size and more with a variety of available Tagarno applications.

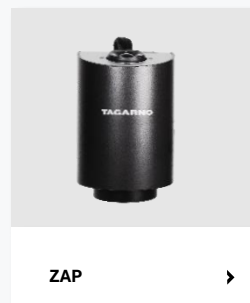
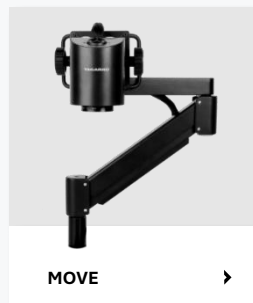
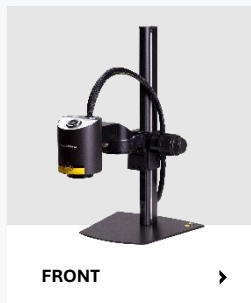
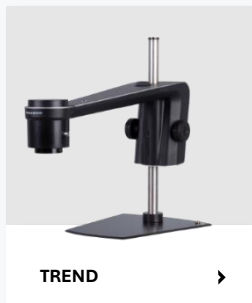
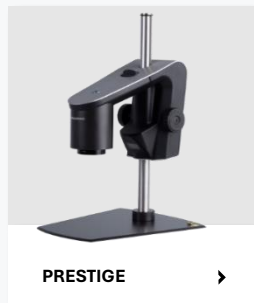
AGRICULTURE APPLICATION

Seed coating quality

With a digital microscope from TAGARNO, it's easy to zoom in on the coated seeds to determine whether it is **evenly distributed** and create photo **documentation** that can be shared with customers and coworkers.



What we offer



Software



Watermark >



Focus stacking >



Ruler >



Image comparison >



Measurement >



Verification lines >



PNG reference >



DXF Overlay >



Trichoscope >



Speck counter >



Particle analyzer >



Color analyzer >



Open API >



PNG REFERENCE APP

Superimpose images for inspection assistance

- **Create any inspection graphic you want**

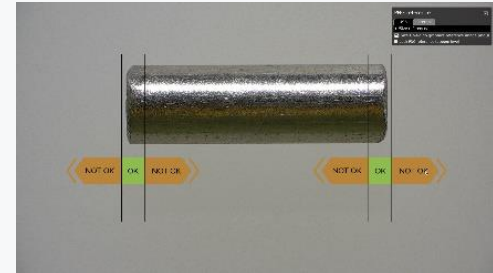
With free image editor programs, you can create any PNG photo you want

- **Use graphics as inspection assistance**

Use custom made graphics and reference images as heads-up displays to assist you during inspections

- **Reduce preparation time**

Save your graphic and microscope settings as a preset to eliminate manually adjusting the microscope



*Different example of a PNG graphic:
GO/NO GO tolerances*



COLOR ANALYZER APP

Calculate color values automatically and objectively

- **Identify exact color hue**

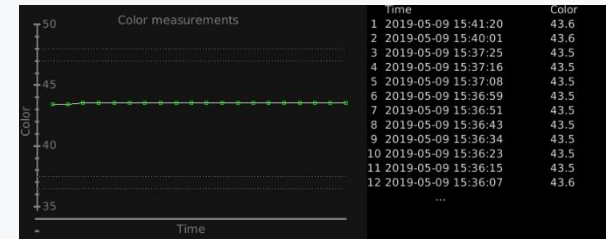
For the naked eye, it's hard to determine if a color is the exact hue that it needs to be. However, Color analyzer app from TAGARNO does it accurately and in a matter of seconds

- **Save template for consistent analyses**

Avoid manual adjustment of settings and reduce preparation time by saving your most used settings as a template

- **Compare samples and results**

Use on-screen data for cross-sample analysis



By comparing results from previous analyses, it's easy to spot deviations from the ideal color hue and adjust the production accordingly



OPEN API

Integration made easy with TAGARNO's Open API

- **Exchange data**

Use the Open API to exchange data between the microscope and other systems as part of performing or documenting your work

- **Easy and cost effective**

With the Open API, you can create a customized solution without the involvement of TAGARNO.

All you need is the API protocol

Data Management System

Optimize how you store photos and data

If you need to take many photos (and afterwards rename and organize them all), you can significantly reduce the manual workload with an API integration to your Data Management System.

Through the API, you can:

- Set/change prefix and format of the images you're about to take
- Pick and transfer the images from the microscope to your system as you need them

Questions



**Please stop by our table
and try a Tagarno system for
yourself!**