

Optical table

Visualization of vitreousness and color inside the kernel



Normal vision



Visualization with the Optical table

The visualization of the inside of the kernel in a laboratory test enables an in-depth diagnosis of the parameters to be analyzed.

Challenge

Certain characteristics and defects of seeds are invisible to the naked eye. Looking inside is normally impossible without destructive intervention.

Our solution

OPTOmachines provides with the **Optical table** a patented, high-performing device for **visualizing the inside of the kernel**. A light source illuminates the kernels without blinding the operator: higher contrast and more comfort without glaring the eyes.

Functioning

The Optical table is set on a working area for being used **at ergonomic height**. The sample is filled in the grain dispenser which helps to spread the kernels progressively on the inspection table. The inside of the grains is **immediately visible without glare** through the observation window.

Dimensions

- Height: 86 cm Length: 59 cm Width: 36 cm
- Weight: 38 kg
- Inspection table: 20 x 16 cm

Main benefits:

- Immediate visualization of inside of the kernels
- Clear & high-contrast vision on black background - easy on user's eyes
- Manual adjustment of light refraction
- Ergonomic & user-friendly design
- Easy manipulation of grains



Examples of the application



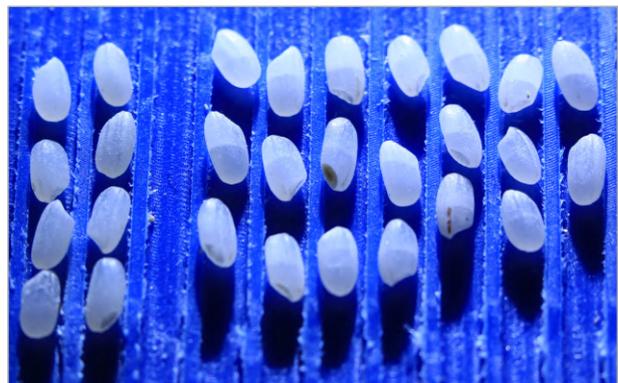
Visualization of vitreousness of durum wheat for estimating the piebalding



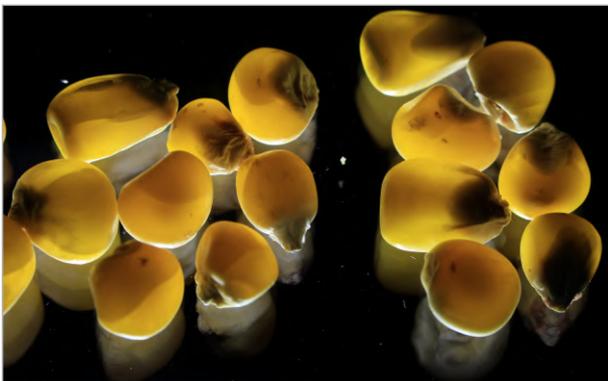
Detection of tender wheat in durum wheat



Detection of red or green grains in paddy rice



Visualization of internal cracks on milled rice



Visualization of vitreousness and cracks in corn



Visualization of germs in tomato seeds

The French company OPTOmachines is a renowned specialist for optical measuring and analysing equipment to the agronomy industry.

The portfolio contains devices for weighing, counting, classifying applications but also complete custom-made lines for phenotyping, packaging and treatment, etc. OPTOmachines supplies the seed industry leaders, prestigious research institutes and independent laboratories.