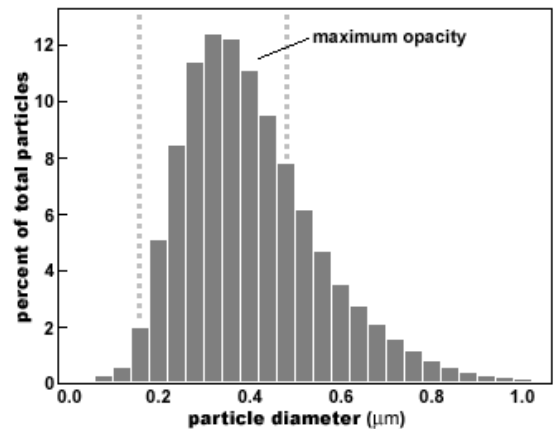
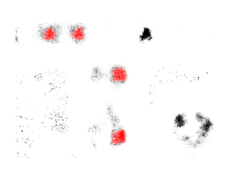
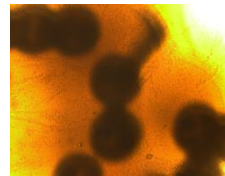
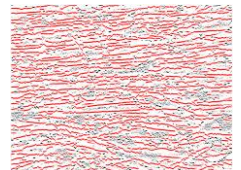
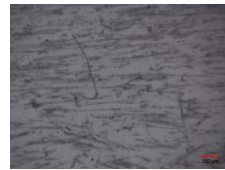
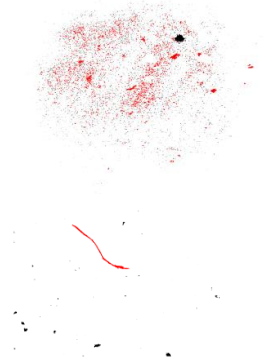
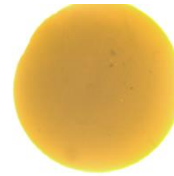
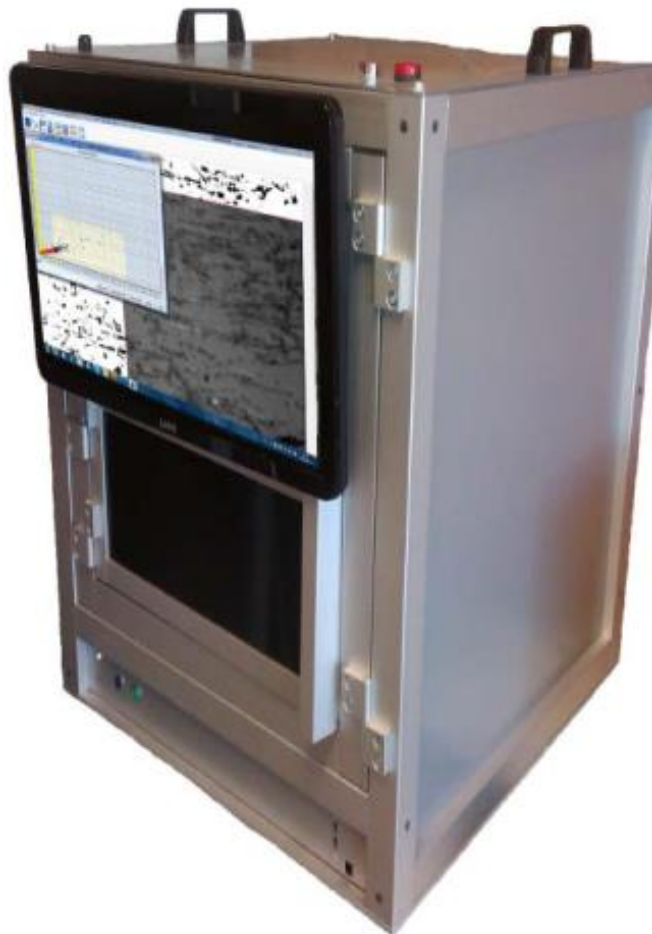


Inspection of impurities in food.

The food inspector consists of a high quality image analysis system to inspect food on contamination, such as degree of colored particles, fibers or other components in the matrix. The system is designed to inspect food such as:

Barley (flakes, flour, pearl) / Breeding, bread stuffing / Brewer's yeast / Bulgur / Durum (type of wheat) / faro / Graham flour / Hydrolyzed wheat protein / Kamut (type of wheat) / Malt, malt extract, malt syrup, malt flavoring / Malt vinegar / MalTED milk / Matzo, matzo meal / Modified wheat starch / Oatmeal, oat bran, oat flour, whole oats / Rye bread and flour / Seitan / Semolina / Spelt / Triticale / Wheat bran / Wheat flour /Wheat germ / Wheat starch.



The analyzer system | Technical description

The Food inspector consists of the following items:

- a) A closed analyzer housing to avoid any contamination from outside.
- b) A 18 Mpixel, ultra high quality and fast USB3 color camera.
- c) Lenses (depending on minimum particle sizes to be measured)
- d) Illumination modules to facilitate appropriate contrast of the contaminants versus the matrix.
- e) Controller interface
- f) Software to analyze particles of various color and contaminants (such as fibers and non-food inclusions)
- g) PC or Labtop
- a) rugged analyzer house

Designed for heavy duty functionality in a food laboratory. Analyzer house is made out of strong aluminum frames with easy to clean walls. Samples can be administrated on a Petri dish of different sizes, into the system through a sample tray. The size of the **sample tray** can be produced in accordance to clients wishes. Typical trays allow Petri dishes to be analyzed from 5 cm to 20 cm diameter.

Font door consists of glass allowing the operator to see the sample.

b) Ultra high Quality Color camera USB3

The camera we use for the 3D maker is the newest of its kind and specially designed for ultra fast acquisition of high quality microscopic images. Some specifications:

extremely high resolutions: 18 MP (4912 x 3684, 21 fps), 4K Cinema (4096 x 2304, 38 fps), and Ultra HD (3840 x 2160, 40 fps). Thanks to the latest BSI pixel technology it is very light-sensitive and therefore perfectly suitable for food analysis.

c) **Lenses.** The lens in the Food inspector depends on the specification of the client related to the size of the particles to be measure. The system can be equipped with lenses allowing **particles of up to 1μm** to be measured.

d) **Special Illumination modules** to improve contrast between the food matrix and contaminants.

e) **Controller interface** to allow communication between the Food inspector (camera and illumination) and the PC.

f) **Software..** Special image analysis software for food analysis is developed to carry out the analysis in accordance with clients required quality control procedures.

g) **PC or Laptop**

Any modern pc or laptop can be used to run The Food Inspector

Analyzer data generated:

Total number of particles

Total number of yellow particles

Total number of black or brown particles

Other Critical to Quality (CTQ) parameters can be produced on customer request.