Ellix is an automatic measurement software program that provides object modelling of an image according to 5 models:

- Elliptical
- Rectangular
- Rhomboidal
- Circular
- Square

**Technological characteristics**

**Acquisition**: Monochrome or color camera

**Optics**: Macro bench, compound microscope or stereo microscope

**Translation**: Motorized or manual stages with magnetic or optical encoders

**Computer**: PC Intel Core i5, i7, 4GB RAM, Windows XP, Seven 32 bits
Particle shape characterization: ELLIX

The image of the particles, obtained with a digital or video camera connected to the lens, is digitized and displayed on the screen in real time.

The image is processed after thresholding. Each object is modelled according to a known geometrical figure; the following measurements can thus be extracted:
- length, width, area and orientation of the models
- position, major axis, minor axis, diameter and area of the objects
- form factors (elongation, eccentricity, aspect ratio)

The analysis stage can be repeated to accumulate results for an unlimited number of fields. The analysis record allows you to check and verify the measurements. During a motorized scan, the record allows you to reposition the measured field.

Due to the wide choice of measurements, Ellix provides a very complete graphical representation module: distribution histogram, scatter plot diagram and directional rose with entirely customizable axes and scales. Statistical calculations are also available. The results are presented in a customized report.