BOSSA NOVA VISION

BOLERO MONO

Single Fiber Metrics

Diameter & Ellipticity

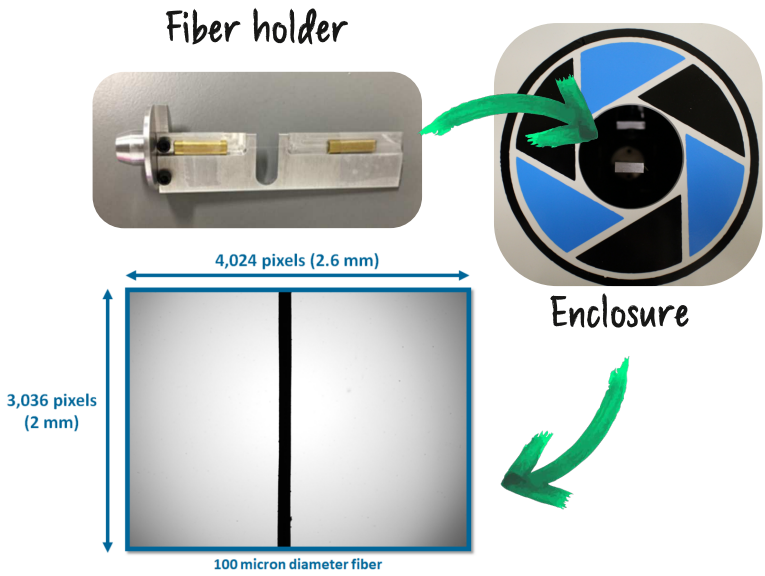
Auto-focus & Auto-centering

Micrometer Precision

3D Fiber Reconstruction

BOSSANOVAVISION.COM

Physical properties of hair - like strength, elasticity or durability - will most often depends on its geometry. **Measuring the diameter and the shape of your fibers** is then critical whenever you want to assess the effect of an external force or of a cosmetic product applied on your hair samples.



Using a powerful microscopic lens, the **BOLERO MONO** is able to image a single hair fiber with a resolution down to the micrometer. The rotation of the sample and the acquisition of its silhouette are automatic, and lead to the **full 3D reconstruction of the fiber**. Diameter and ellipticity of the fiber can then be easily calculated.

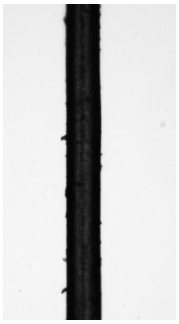
SPECIFICATIONS

VISION	Monochrome (B & W) 8-bits depth 4024 x 3036 px² resolution 2.6 x 2 mm² FOV Factory calibrated LED Illumination panel
HAIR FIBER	Any color - transparent and opaque Diameter from 5 to 500 microns Fixation - bare or crimped
SOFTWARE	BOLERO MONO 3.30 or higher
ACQUISITION	Measurement time < 2 min Automatic focus and centering
DATA	Diameter Ellipticity Black/White Raw Images 3D XYZ Point Cloud Excel Export
SYSTEM	Size : 14" x 16" x 9" (35,5 cm x 40,6 cm x 23 cm) 110/200 VAC 50/60 Hz

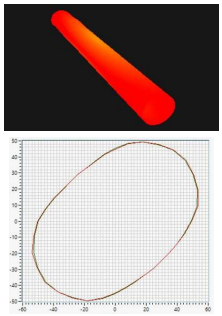
BOLERO MONO SOFTWARE

Using multiple motorized translations and rotations, the BOLERO MONO Software is able to **automatically adjust the position of the fiber and the focus of the camera**.

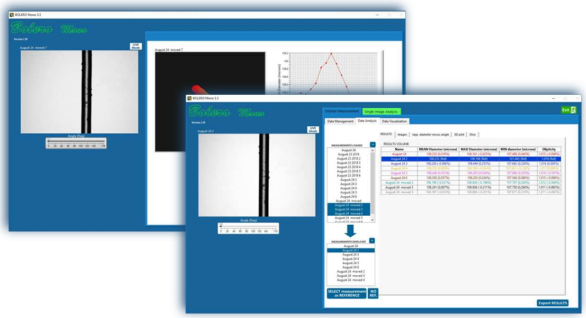
By rotating the fiber, the sofware will acquire a succession of images which are then processed to reconstruct the **3D model** of the fiber, as well as compute its **diameter and ellipticity.**



Raw Image



3D Reconstruction (up)
Cross-section (down)



Using the BOLERO MONO Software, you can easily :

- Acquire your images with a simple organization system for your studies
- Get all the dimensions metrics for your fiber samples (diameter and ellipticity)
- Compare multiple samples
- Export all your data including images, graphs and tables

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