BOSSA NOVA VISION

# SAMBA HAIR

## Hair Shine Analysis for Claims & Research

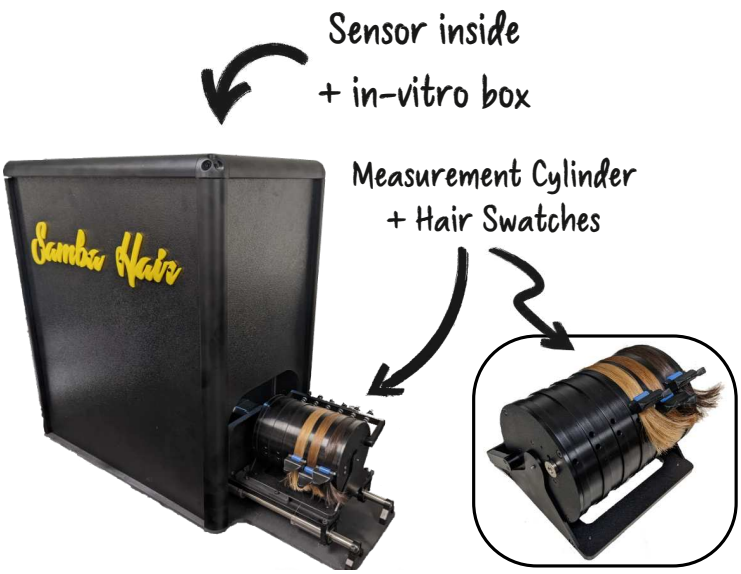
Polarization Imaging
Shine / Chroma / Diffused

Measurement Automation

Claims Compliant Hair Shine metrics

BOSSANOVAVISION.COM

Increase in hair shine may be one of the most sought-after properties in the hair care industry, whether it be for shampoo, conditioner, oils or hair sprays. However, correctly quantifying such a subjective parameter is not easy.




The **SAMBA HAIR System** uses polarization-imaging to separate the different components of light that are reflected from hair swatches and extract **valuable data for research and claims of luster properties of hair**. The system includes an imaging sensor head and an in-vitro enclosure. The hair samples are positioned on a cylindrical mount that automatically moves in and out of the instrument.

## SPECIFICATIONS

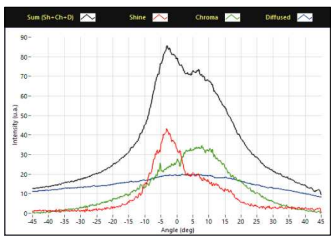
| | |
|---|---|
| **VISION** | 12-bits depth<br>3840 x 2160 px² (camera)<br>1570 x 280 px² (single swatch)<br>White LED Illumination bar |
| **HAIR SWATCH** | Any color<br>0.5" (12.5 mm) wide<br>7" (180 mm) long |
| **SOFTWARE** | SAMBA HAIR 4.0 or higher |
| **ACQUISITION** | 6 swatches max per cylinder<br>10 positions / measurement per swatch<br>5 to 20 minutes per full cylinder<br>Shine / Chroma / Diffuse images |
| **DATA** | Luster coefficients<br>(BNT, Reich-Robbins)<br>Shine / Chroma / Diffuse<br>Images and Angular distribution<br>Profiles parameters<br>(Intensity, band width, overlapping, etc.)<br>Excel Export |
| **SYSTEM** | Size : 24" x 19"x 10"<br>(61 cm x 49 cm x 26 cm)<br>110/240 VAC<br>50/60 Hz |

## SAMBA HAIR SOFTWARE

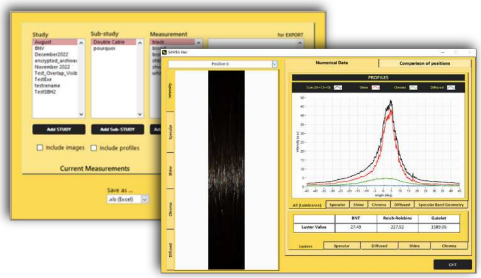
Using our polarization imaging system, the SAMBA Hair software can reconstruct the specular, shine, chroma and diffusion images of your hair swatches.

After processing, luster coefficients used for claims in the cosmetics industry as well as more extensive data (angular distribution of intensity, shine band parameters, etc.) are provided.

*Specular and Diffusion images separation*




*Angular distribution Shine / Chroma / Diffusion*



With the SAMBA HAIR Software, you can easily :

- Acquire your images with a simple organization system for your studies
- Get luster coefficients widely used for claims in the cosmetic industry
- Compare images and numerical data of multiple samples
- Export all your data including images, graphs and tables


BOSSA NOVA VISION

5777 W. Century Blvd
Suite 205 - LOS ANGELES
CA 90045 USA

www.bossanovavision.com
info@bossanovavision.com

Tel: (424) 393-4011
Fax: (310) 943-3280