



**AUTOMATIC OPTICAL ANALYSIS
SYSTEM FOR MULTIPHASE
DISPERSIONS**

(mod. MULTISCAN MS 20)

VENDOR: ALFATEST

YEAR OF ACQUISITION: 2025

SUPERVISING FACULTY MEMBER: Prof. Francesca Buttini

Technical features:

- Maximum resolution: 5 μm ;
- Maximum scanning speed: 12.5 mm/s mm;
- Temperature range: from 5°C to + 80°C
- Ability to measure particle size distribution from migration profiles
- Measurement size range: 10 nm-1mm;
- Measurable volume: 20 mL;
- N. 2 light sources (0° transmission, 45° backscattering) and N. 1 detector;
- Data control and analysis software.

Applications:

- Analysis of the stability and physical-chemical characteristics of emulsions, suspensions and foams.
- Monitoring of the evolution of dispersions over time and quantification of instability kinetics.
- Applications in the cosmetic, pharmaceutical and food fields, both for the control and development of new formulations.

Acquired for the Department of Excellence MUR 2023-2027