

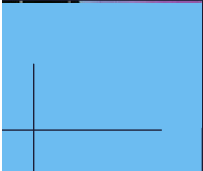
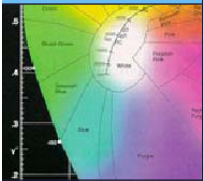
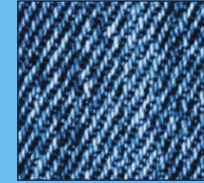


# VideometerSLS

## Sub-Surface Laser Scattering from Videometer

Jens Michael Carstensen  
Videometer A/S

- Concept
- Principle
- Outline and features
- Applications



# VideometerSLS concept

Laser light used for determination of physical and chemical characteristics of liquid as well as translucent solid products.

Laboratory or in-line process control of fermentation, mixing, baking, whipping and air bubble incorporation processes.

Analysis parameters:

- Surface structure
- Texture
- Viscosity
- Air bubble size and distribution
- Foam quality

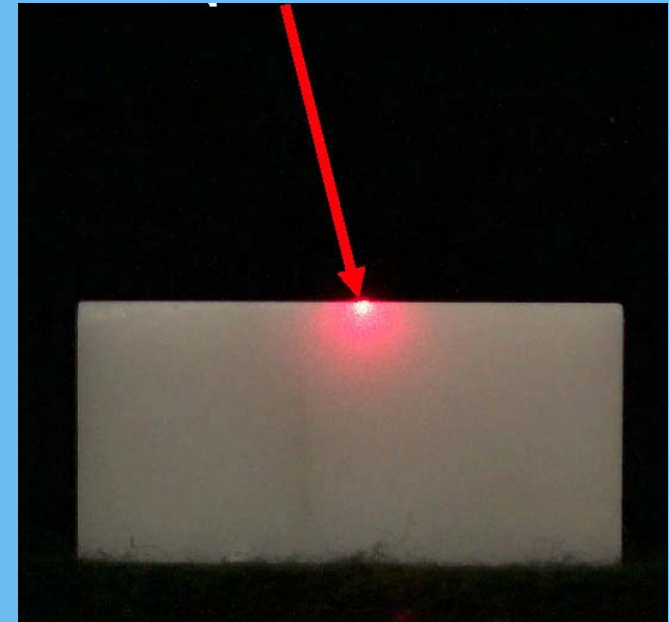


# VideometerSLS principle

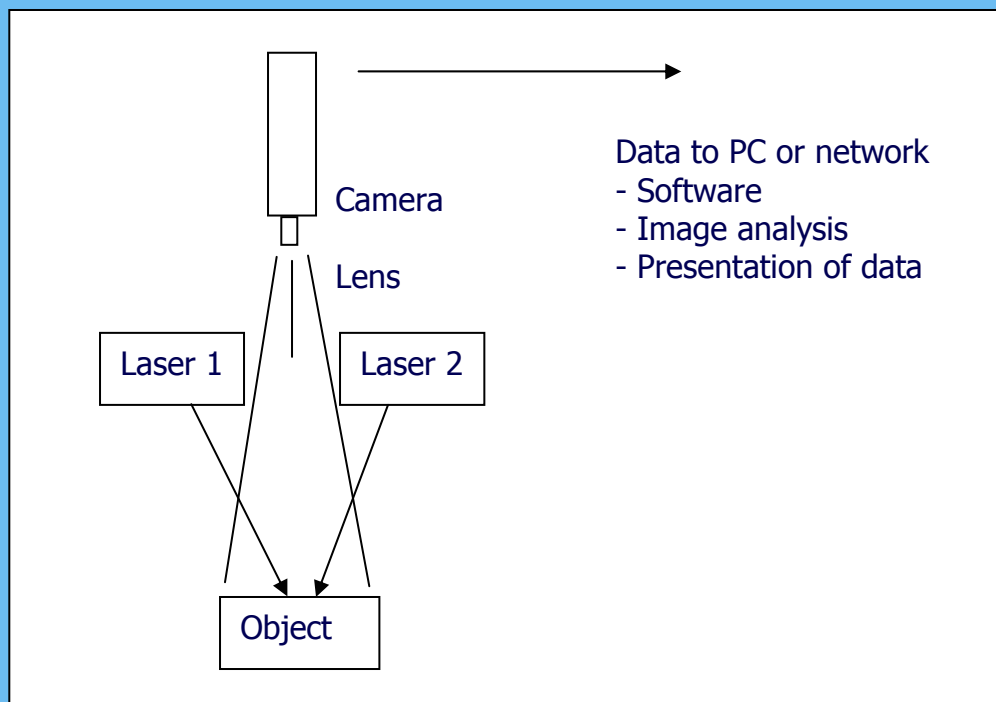
The sample is illuminated using one or more laser beams and the image of the light spots are collected.

Data are then treated automatically in order to predict the physical characteristic according to size, area of distribution and shape of the light spot.

If multiple wavelengths are used then chemical characteristics may also be estimated.



# VideometerSLS features



- 1 to 6 wavelengths from 405 nm to 970 nm
- Firewire camera interface
- Calibration target
- VideometerLab software
- Laboratory version or in-line stainless steel housing

## Outline of Sub-Surface Laser Scattering instrument



## Why Use Sub Surface Laser Scattering?

- Unique technology solving problems in processing
- Non destructive analysis method
- Exact analysis method instead of subjective judgement
- Customer less dependent on trained key employees
- Enhanced production control
  - Follow texture in fermentation process
  - Control whipping process
  - Air bubble distribution may be quantified

