



# VideometerLab for Quality Assessment of pharmaceutical powders



# ABOUT US



- Spectral imaging company
- Founded 1999
- Products
  - Lab instruments,
  - Turn-key in-line systems, and
  - R&D projects
- App. 700 imaging R&D projects since 2000
- In-line 24/7 spectral imaging since 2002
- Based in Copenhagen, Denmark
- Partnerships worldwide

# OUR LEGACY



1999

## The beginnings

Videometer was co-founded by Jens Michael Carstensen and 7-Technologies in 1999, as a spin-off from the Technical University of Denmark. The first patent application was filed.

2000

## Project-based

In 2000, Videometer began its project-based activity. During these years, the company's main focus was set on custom-made vision systems for in-line and on-line quality control.

2018

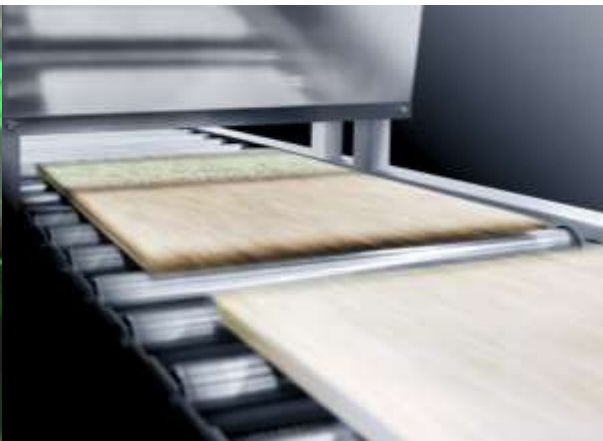
## A new era

In 2018, Videometer's structure underwent new developments both in terms of strategy and structure. This year marked the beginning of a new era for the company, in terms of focus on instruments.

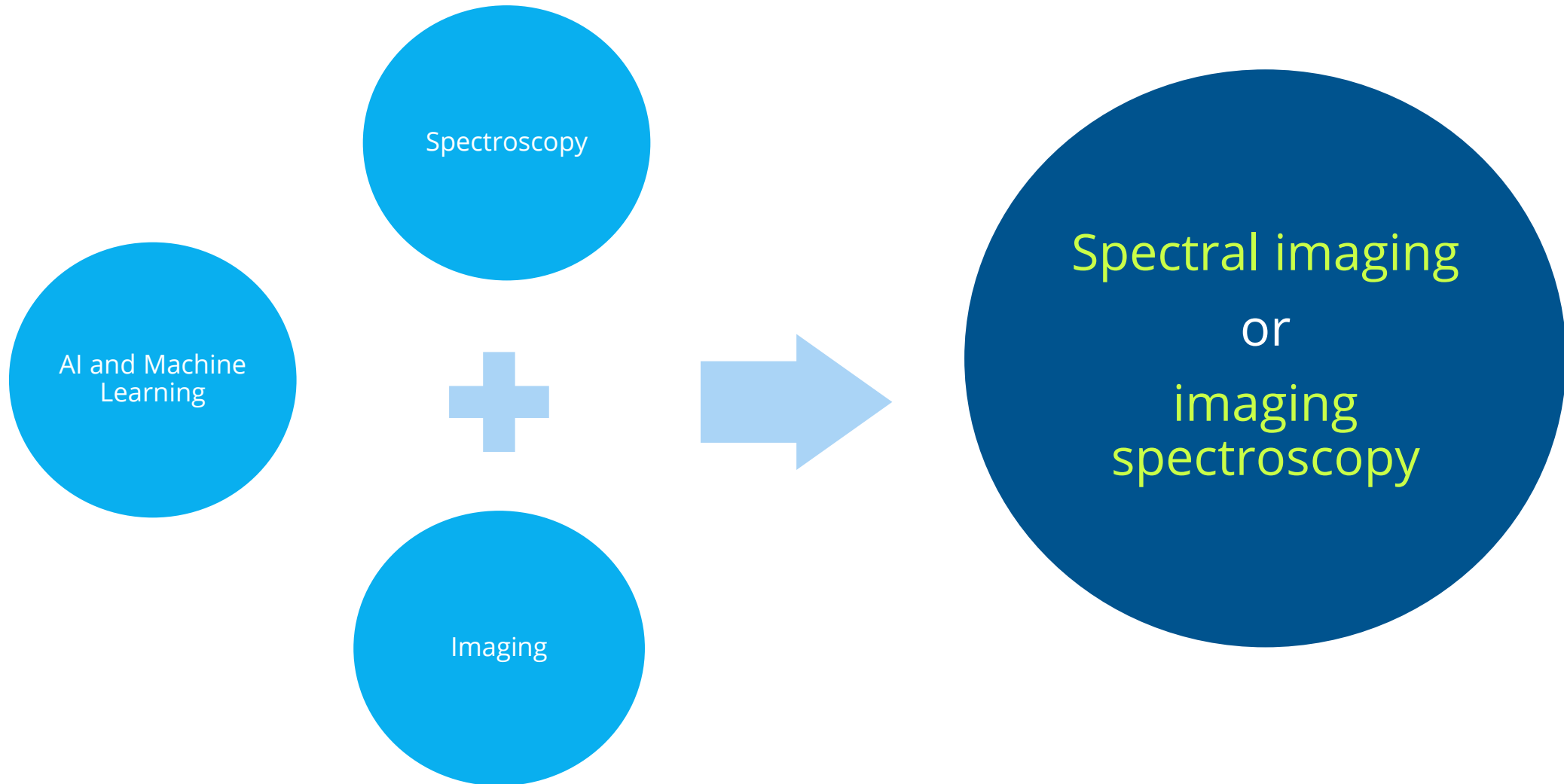
2020s

## Today

Today, Videometer is a leading provider of spectral imaging solutions worldwide, selling both spectral imaging instruments and custom-made vision systems. Videometer is synonym of excellence and innovation in its field.



# SPECTRAL IMAGING





# WHAT COLOR IS THE CAR?



APPEARANCE

=

CHEMISTRY

X

PHYSICS

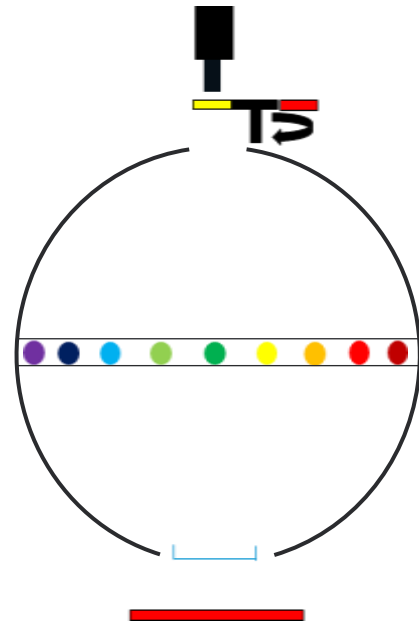
X

ENVIRONMENT

X

ILLUMINATION

# LED BAND SEQUENTIAL SPECTRAL IMAGING



Camera and lens

Emission filter changer

Integrating sphere

LEDs of multiple wavelengths

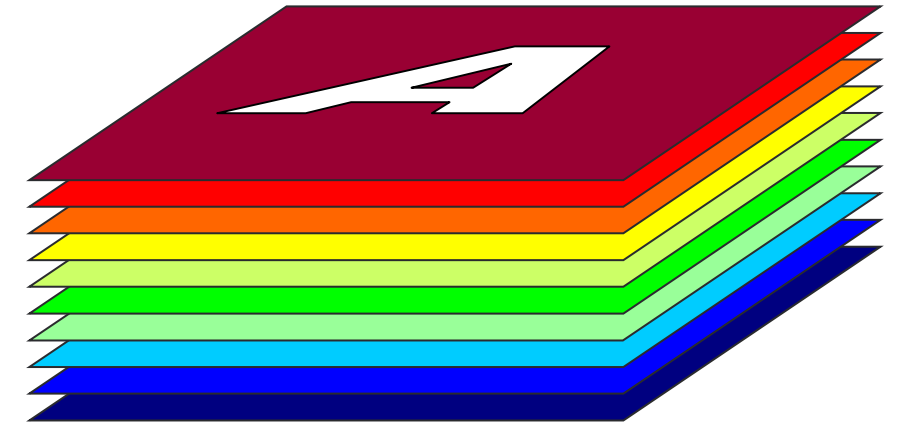
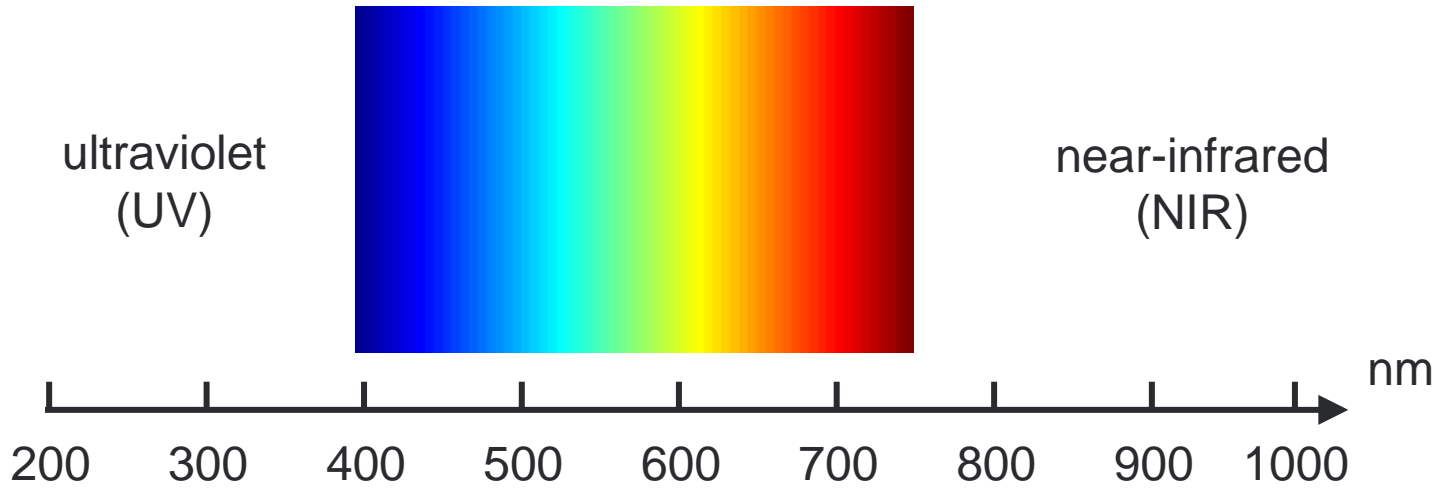
Sample is placed in target opening

Backlight or background



- LEDs: Stable, durable, large selection, rapidly developing technology
- Up to 20 different high-resolution bands acquired sequentially in 0.5-1.0 seconds
- May be combined with emission filters, backlight, and darkfield illuminant
- Combined reflectance spectral imaging and fluorescence spectral imaging possible!

# SPECTRAL IMAGE



N images obtained at N wavelengths

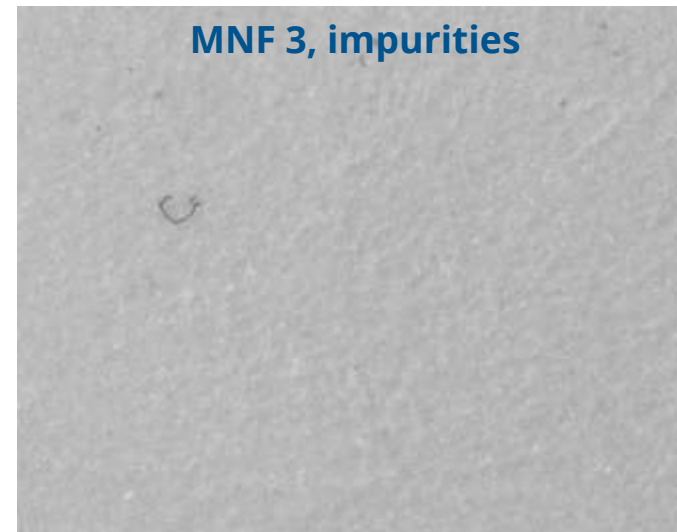
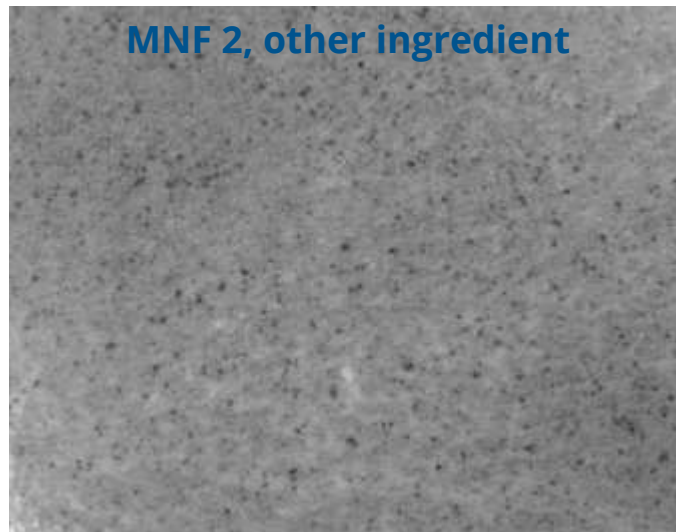
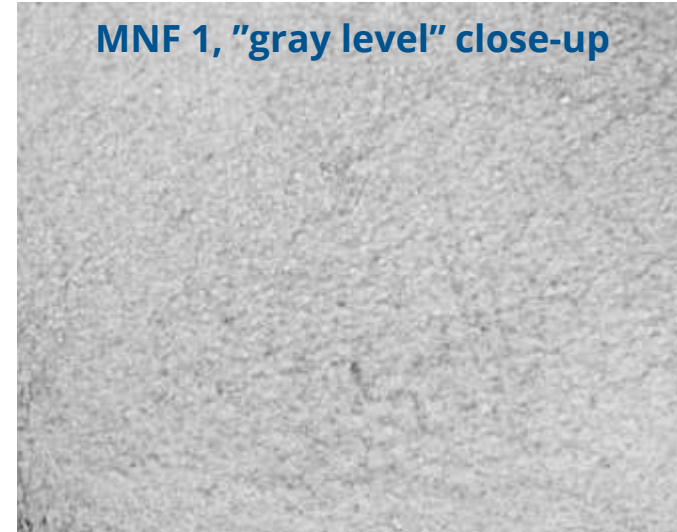
Microbial and plant metabolites

Accurate color assessment and pigment concentration

Pigment baseline, moisture, fat, etc.

Spectral image is typically a large data structure of 100 MB to 10 GB

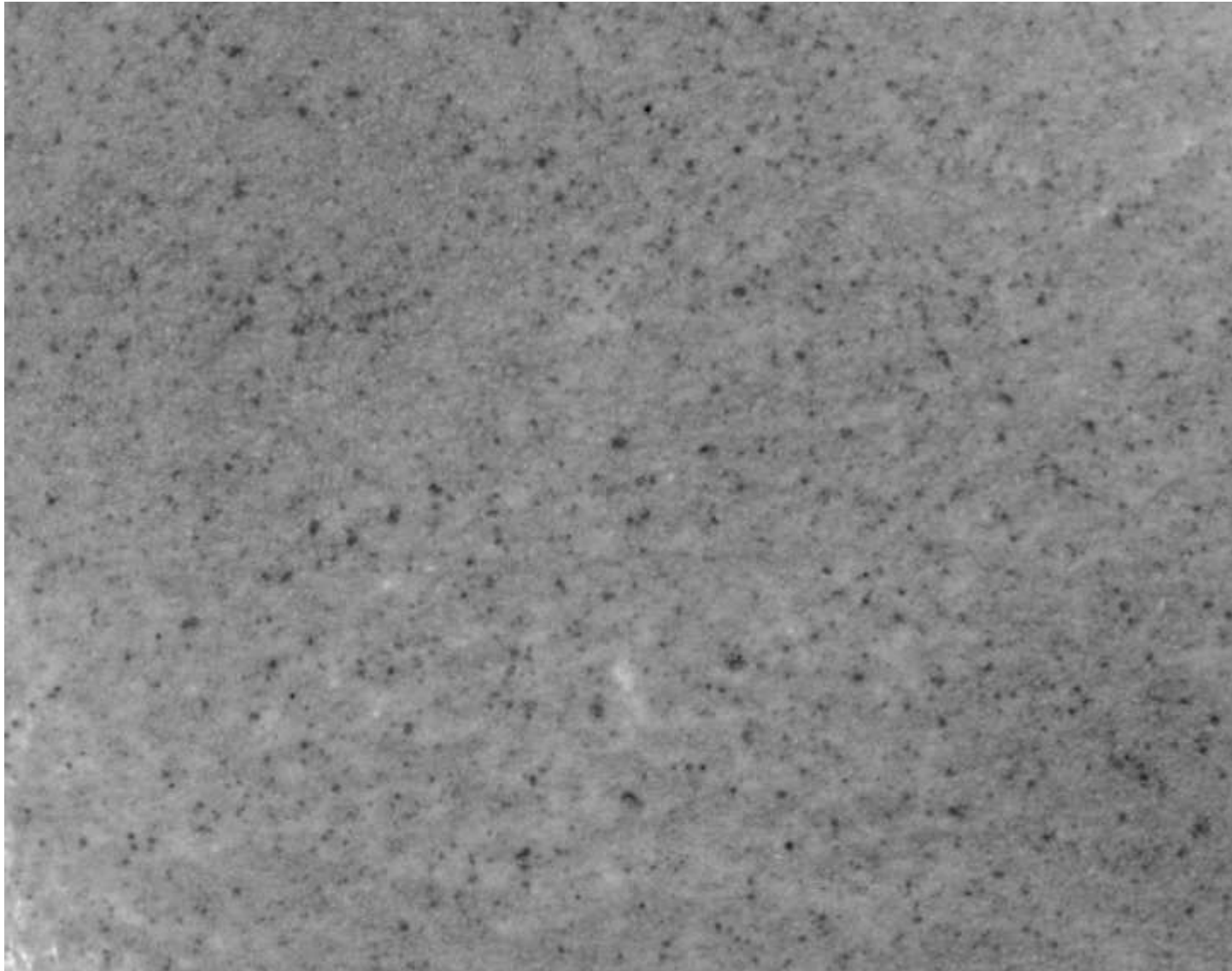
# PHARMACEUTICAL POWDER



We measure what you see – and beyond

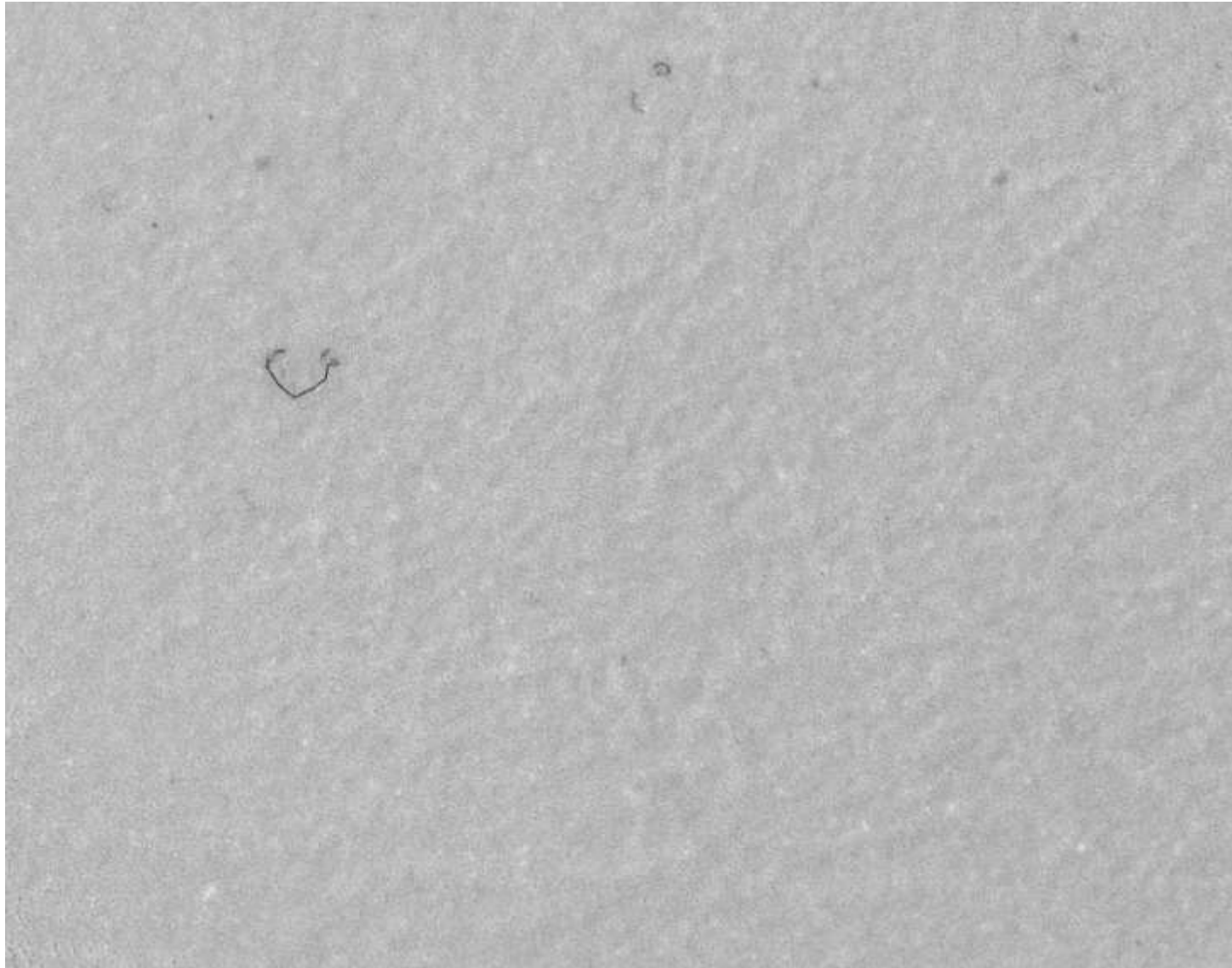


# OTHER INGREDIENT



We measure what you see – and beyond

# IMPURITIES



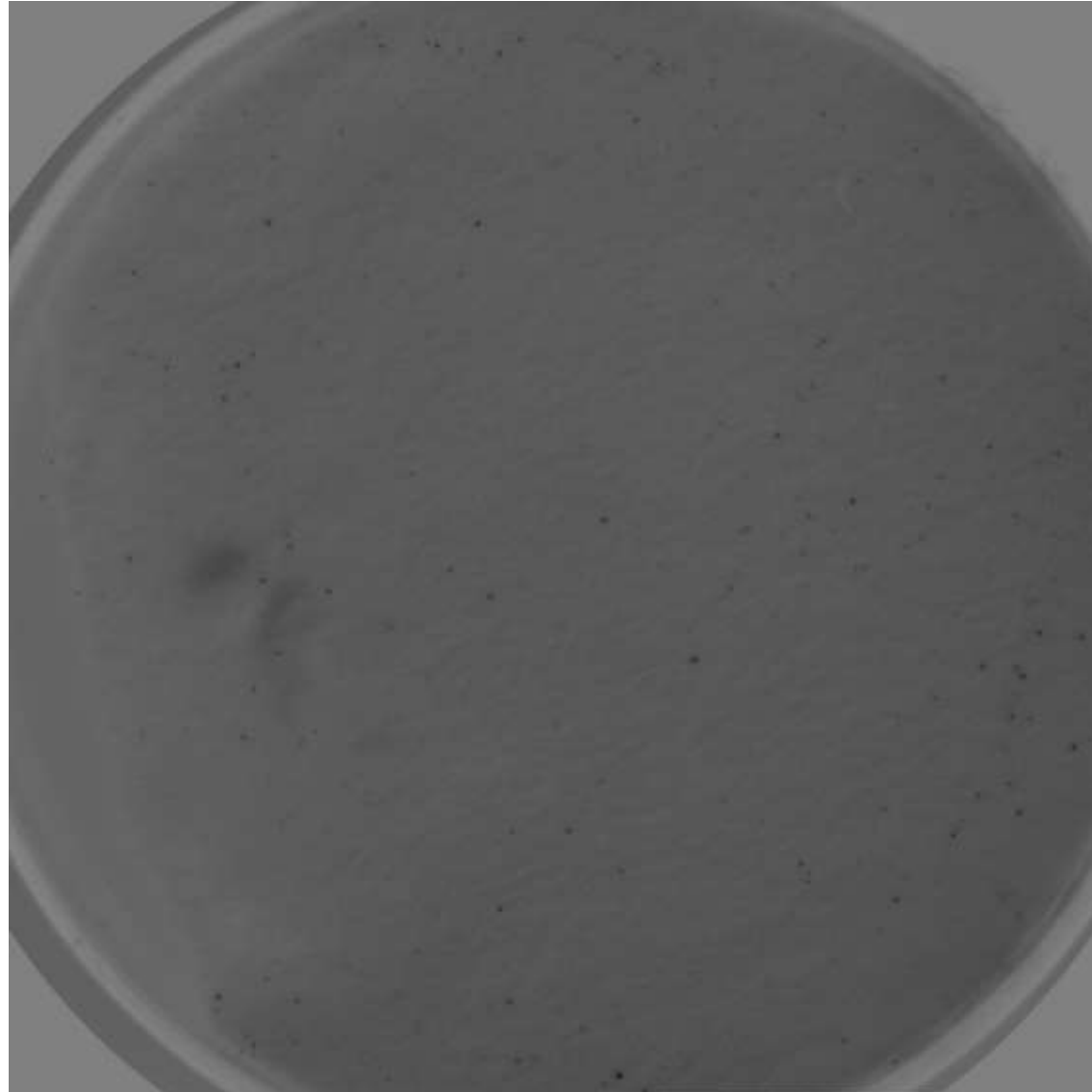
We measure what you see – and beyond

# ANOTHER POWDER (RGB)



We measure what you see - and beyond

# ANOTHER POWDER (MNF2)



We measure what you see – and beyond



# TWO POWDER LEFT-RIGHT (RGB)



We measure what you see - and beyond

# TWO POWDER LEFT-RIGHT (MNF2)



We measure what you see – and beyond

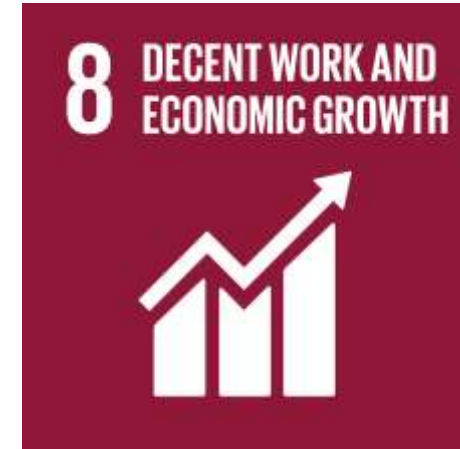
# OUR VALUES



Zero Hunger and Food Security



Good Health and Well-Being



Decent Work and Economic Growth



Responsible Consumption and Production



Life Below Water



Partnership for the Goals

# THANK YOU!



Address

Hørkær 12B  
DK-2730  
Herlev



Email

[mail@videometer.com](mailto:mail@videometer.com)  
[www.videometer.com](http://www.videometer.com)



Phone

+45 4576 1077