



Videometer seafood applications





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 2000 2018 2020s

The beginnings

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

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.

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.

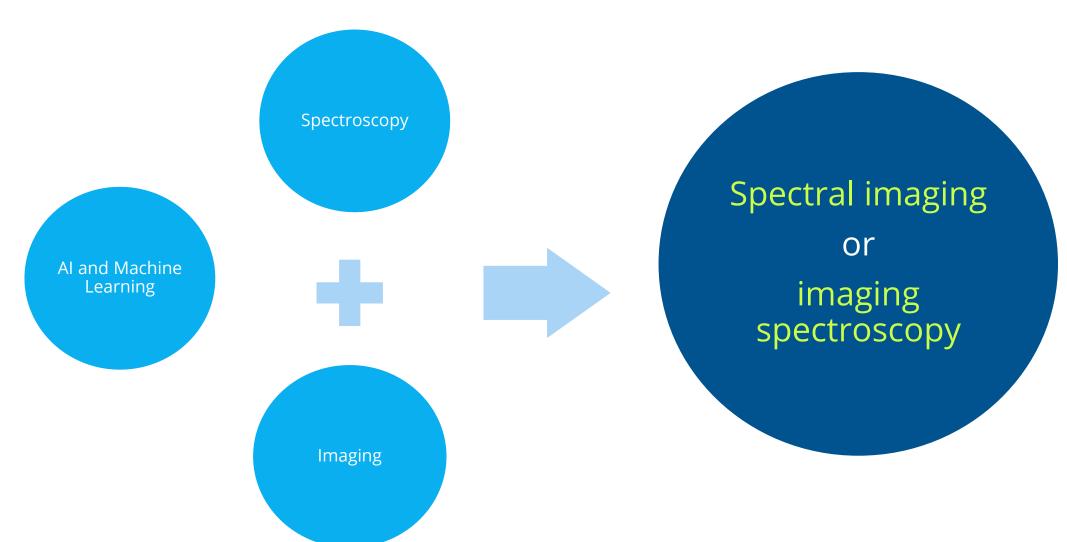
Today

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











APPEARANCE

=

CHEMISTRY

X

PHYSICS

X

ENVIRONMENT

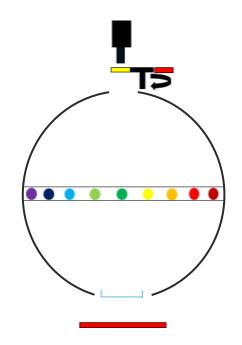
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ILLUMINATION

LED BAND SEQUENTIAL SPECTRAL IMAGING







Camera and lens

Emission filter changer

Integrating sphere

LEDs of multiple wavelengths

Sample is placed in target opening

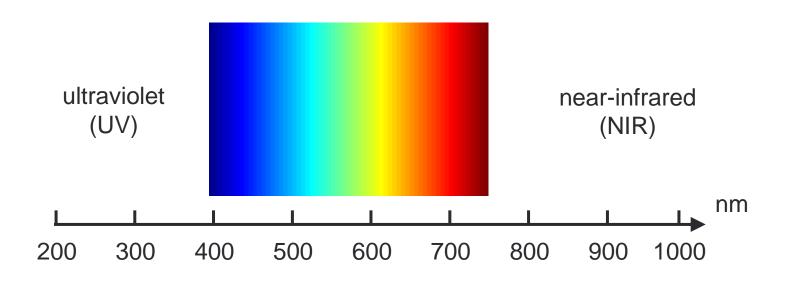
Backlight or background

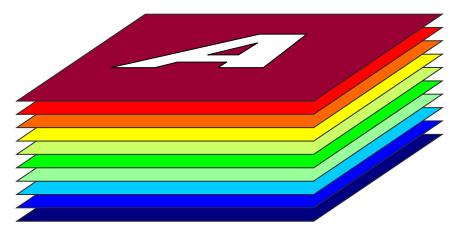


- LEDs: Stable, durable, large selection, rapidly developing technology
- Up to 20 different high-resolution bands acquired sequentially in 0.5-1.0 seconds
- May be combined with emission filters, backlight, and darkfield illuminant
- Combined reflectance spectral imaging and fluorescence spectral imaging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

SPECTRAL IMAGE







N images obtained at N wavelengths

Microbial and plant metabolites

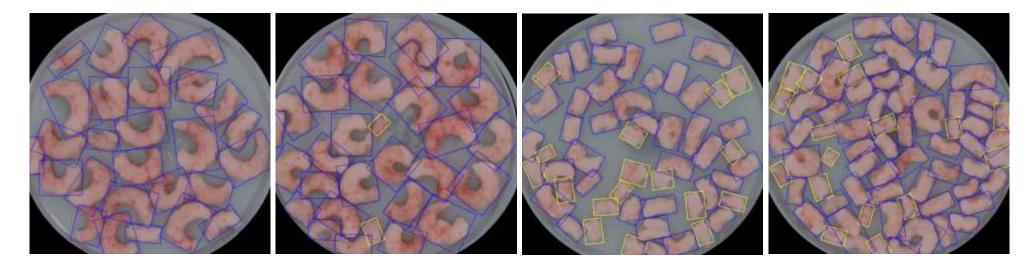
Accurate color assessment and pigment concentration

Pigment baseline, moisture, fat, etc.

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

QUANTIFYING PRAWN QUALITY



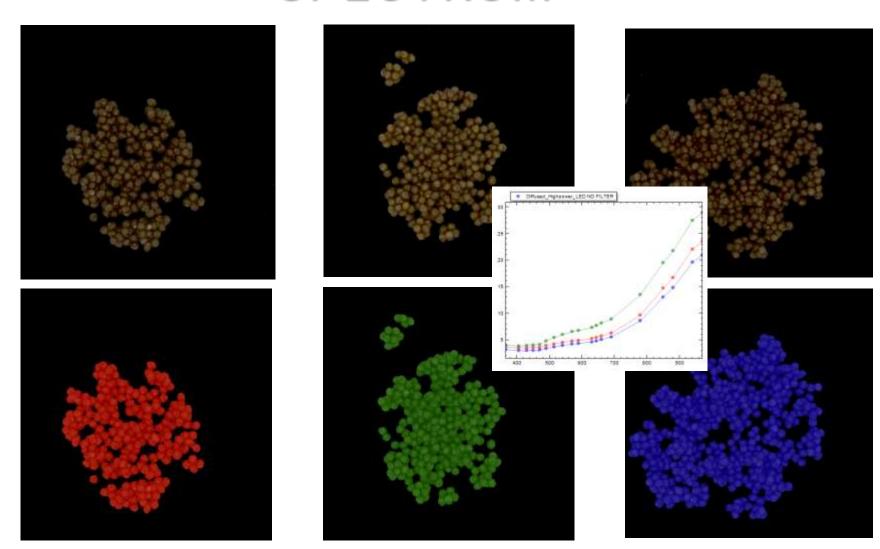


Prawn counting and size measurements:

- Count regular prawns and bits
- Size distribution
- Color
- Impurities

CAVIAR COLOR – REFLECTANCE SPECTRUM

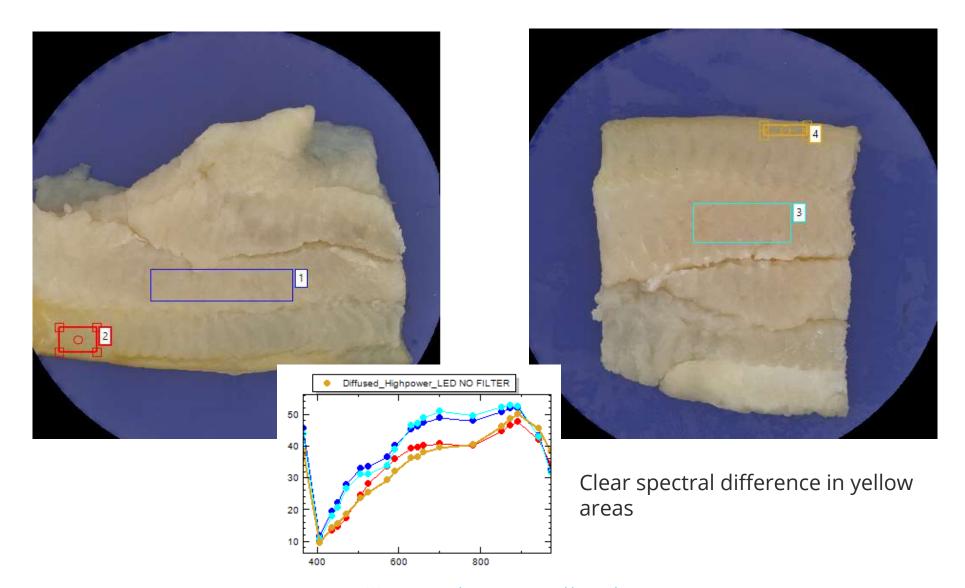




We measure what you see – and beyond

CATFISH SAMPLES - YELLOW EDGES

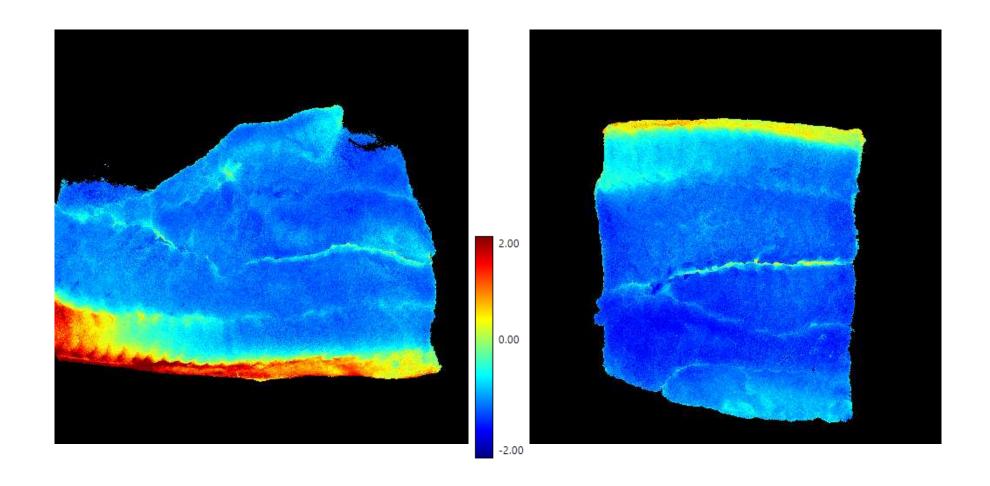




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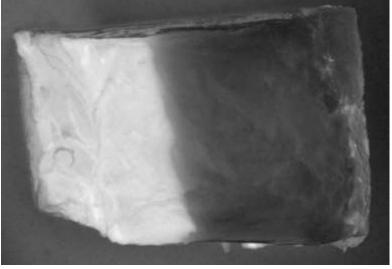




DETECTION OF BLOOD MEAT IN TUNA





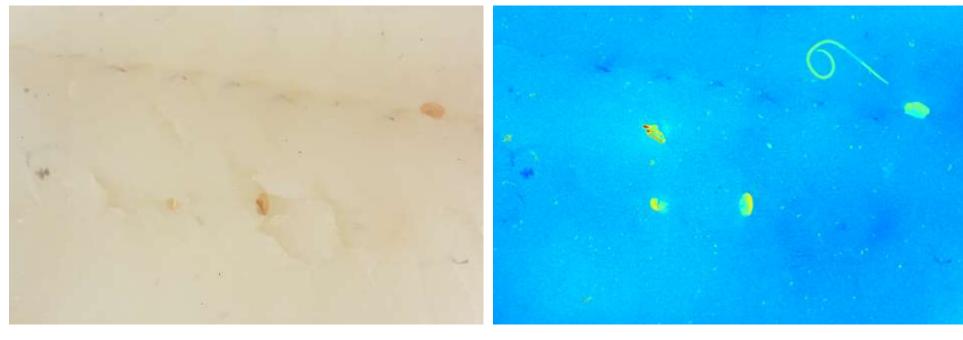




- Spectral detection and thresholding
- Blood meat marked in binary image

ATLANTIC COD SAMPLE





sRGB image

Detected parasites

OUR VALUES





Zero Hunger and Food Security



Responsible Consumption and Production



Good Health and Well-Being



Life Below Water



Decent Work and Economic Growth



Partnership for the Goals



THANK YOU!



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