

An acknowledged player in PAT

- Company founded in 2009 by two optics researchers
- Joined the Chauvin Arnoux Group in 2017
- Composed of researchers & engineers
- Partner of international university scientific centers of excellence
- Several portfolio technologies : Hyperspectral imaging & Spatially resolved spectroscopy, Raman, NIR, UV VIS,

+ PHARMA

- Tablets
- Powders
- Capsules
- Dissolved powders
- Turbid liquids

BIOTECH

- Cell culture
- Pure products
- Conditioning
- Lyocakes
- Emulsions

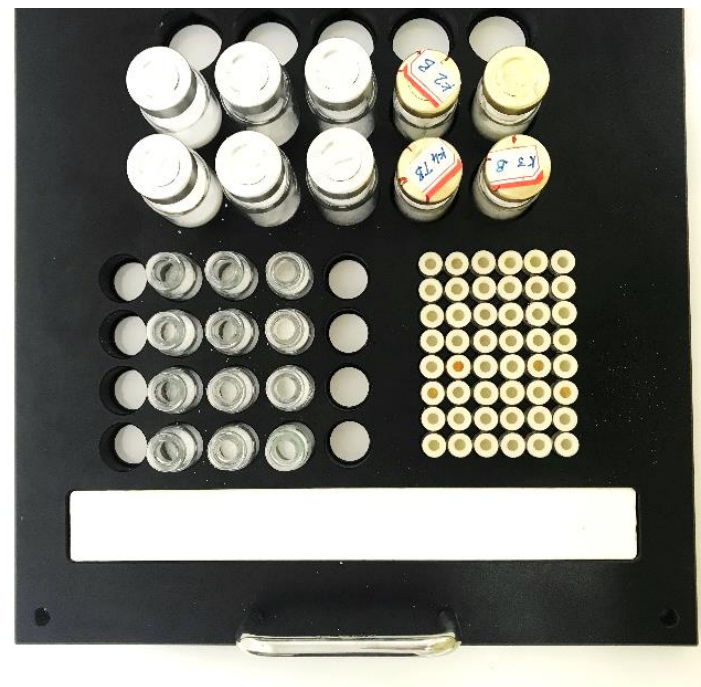
CHEMICALS

- Paints
- Powders
- Particles in suspension
- Mixtures of liquids

USE CASE : ANALYSIS OF VACCINE LYOCAKE



- The HypeReal allows you to
 - evaluate the residual moisture content of the lyophilized product
 - detect cake defects such as cracks or melt back
 - identify and quantify the active pharmaceutical ingredients (APIs)
 - inspect the homogeneity of the freeze-dried products
- quickly and non-destructively through the glass vials
- multiple samples at a time
- without the use of toxic reagents



30 Samples

Sample	Image	Residual moisture	Residual moisture
Appli Lyo (18)			0.9789
Appli Lyo (17)			1.055
Appli Lyo (16)			1.319
Appli Lyo (15)			1.308
Appli Lyo (14)			0.8857
Appli Lyo (13)			4.094
Appli Lyo (12)			1.906
Appli Lyo (11)			2.14
Appli Lyo (10)			2.206
Appli Lyo (9)			2.048
Appli Lyo (8)			1.433
Appli Lyo (7)			2.124

Result in One minute

- Near-infrared chemical imaging (NIR-CI)
- Bench-top pushbroom imaging system
- Spectral range: 900 – 1700 nm (FX17-SPECIM)

What We are looking for

END USER

- Biotech : faster and better analysis of their samples such as Lyocake, Intralipids, liposomes from lab to process dev
- Pharma companies who want to optimize powder mixing and tablet manufacturing
- Chemical companies and food preparing powder vitamin, granules etc (example : efficiency of coating etc..)
- Customs who need to analyze powders through plastic bag.

Collaboration / Distributors

- England
- Ireland
- Germany
- Greece
- Portugal

Collaboration / OEM

- Machine suppliers : Indatech also have a solution for analysing product during the process (tablet, lyocake, capsul, powder, liquids ..)
- Already working with GEA, Pharmatec & Proditec