



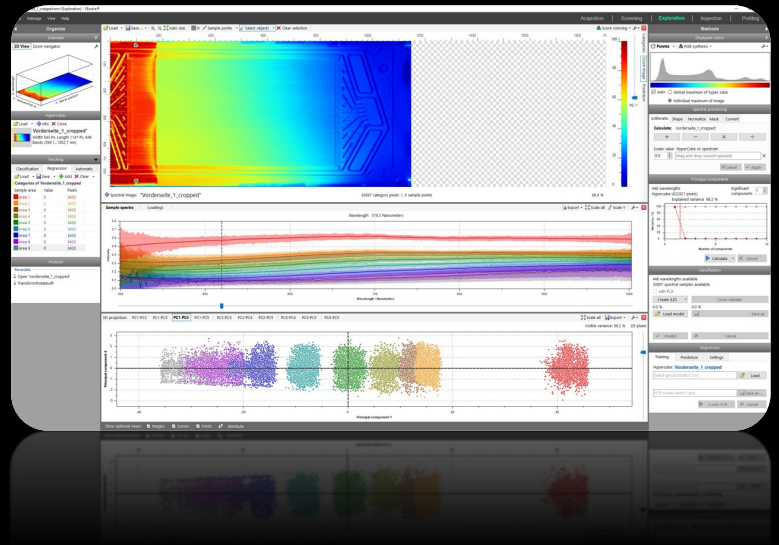
# VESOLVE<sup>®</sup> PRO

## Hyperspectral Vision Software

### TARGETED, USER-CENTERED AND AI-DRIVEN

VEsolve<sup>®</sup> Pro is the powerful all-in-one software suite designed for DIVE technology, comprising acquisition, screening and exploration of Hyperspectral Vision data ("hypercubes").

- **TARGETED**  
Designed for DIVE hardware
- **USER-CENTERED**  
Visualise the insights within milliseconds after data recording
- **AI-DRIVEN**  
Teaching and application of AI models by simply one click



### START EASY

VEsolve<sup>®</sup> Pro boosts your productivity together with DIVE's VEpioneer<sup>®</sup> system by orders of magnitude:

- **PRESETS**  
Provision of optimised presets per sample and ensuring highest data quality through live correction of all non-sample influences
- **PRESS PLAY**  
The green button just starts the preset and runs the measurement

CHECK OUT  
MORE



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## Hyperspectral Vision Software

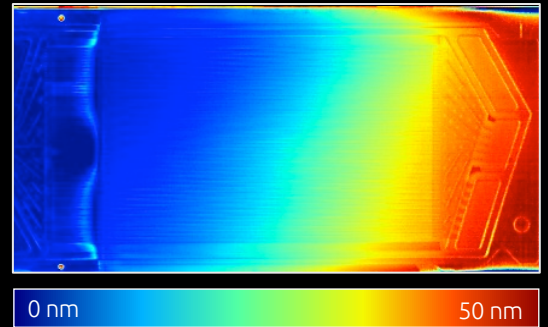
### RUN EASY

VEsolve<sup>®</sup> Pro provides easy handling of sophisticated math utilizing commonly known concepts empower users to commence productive work immediately.

- **AI models**

Teach your own AI models by simply “painting” the hypercube or utilize existing models

Bipolar plate with graphite like carbon layer and applied thickness model



### SOFTWARE FEATURES

Data acquisition	with live frame
Referencing	white and dark reference   fault correction optional
Measurement control	preset use excitation intensity   exposure time   framerate   pixel binning
Sampling modes	region of interest (if supported by hardware)   spatial resolution (scan direction) standard (scan moving) reduced noise (step-wise by averaging frames) free run (record frames or record until stop)
Data screening	palette selection   RGB synthesis
Hypercube editing	resampling   crop   rotation   stitching
Object separation	threshold   arithmetic operations
Spectral processing	smoothing   median calculation   derivative calculation normalization   masking
Data exploration	unsupervised and supervised AI
Exploratory AI	PCA, k-means
Classification AI	LDA, random forest
Regression AI	PCR, PLS
Data import	ENVI (bsq, bil, bip), .jpg.hsi, .csv, .hdf
Dat export	ENVI, .tiff, .jpg, .png, .csv, .xml
Software requirements	PC or laptop, 32 GB RAM and 1 TB SSD recommended, Windows 11

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