



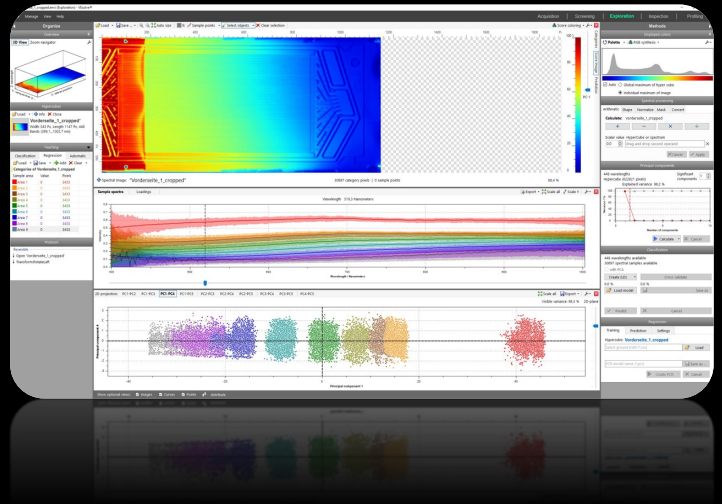
VESOLVE[®] PRO

Hyperspectral Vision Software

TARGETED, USER-CENTERED AND AI-DRIVEN

VEsolve[®] 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[®] Pro boosts your productivity together with DIVE's VEpioneer[®] 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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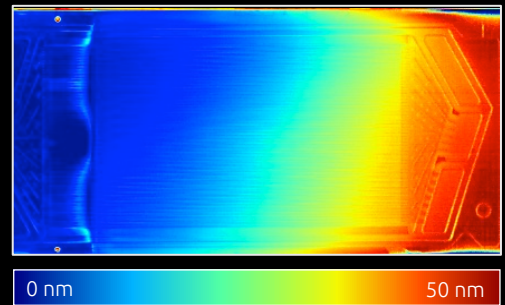
RUN EASY

VEsolve[®] 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 region of interest (if supported by hardware) spatial resolution (scan direction)
Sampling modes	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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