

INDUSTRIAL

# PRECiV

for Digital Microscopes

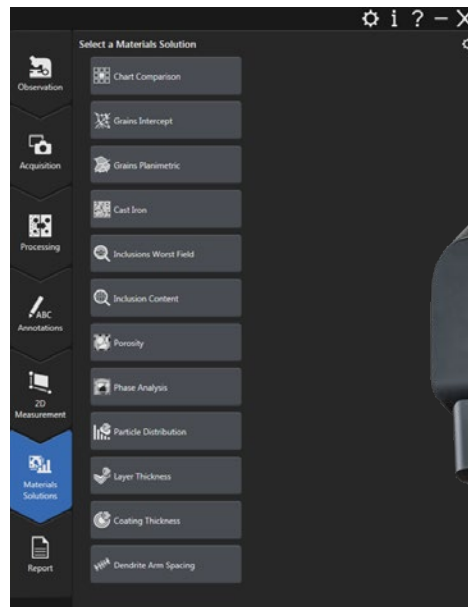
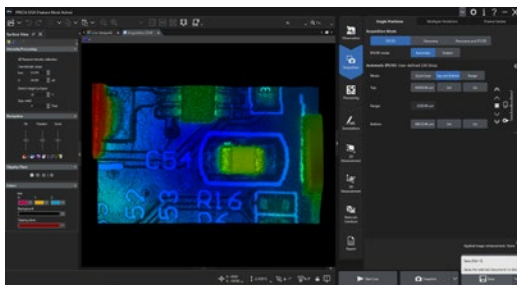
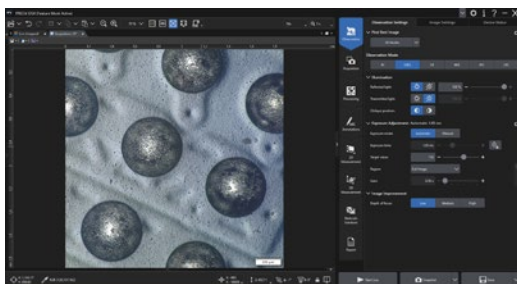


EVIDENT

# Imaging Platform for Digital Microscopy

## Simple to Learn and Use

- › Unified software interface increases efficiency with straightforward functions and an intuitive layout that's easy to learn with minimal training
- › Clearly labeled buttons make each feature and function easy to find
- › EZ mode: full-screen live view with defined function set for routine tasks
- › Save and recall observation conditions for consistent sample comparison and pass/fail analysis
- › Guided workflows make complex inspections easier
- › Leading-edge measurement and image analysis tools to solve complex challenges
- › Create reports and distribute them over your network
- › Connectivity that enables efficiency and security



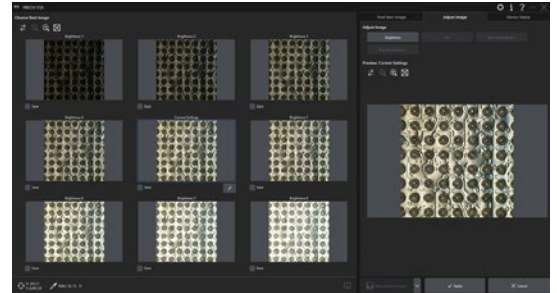
## Flexible and Modular

- › Supports DSX series digital microscope models
- › Supports DSX accessories, including the universal and standard zoom heads; motorized, upright, and tilting frames; nosepiece; rotatable X,Y motorized and manual stages; and consoles
- › Supports all DSX objective lenses and lens attachments



## Best Image Observation

- › Supports all integrated observation methods of DSX series digital microscopes, including the best image function. See your sample under multiple observation conditions with a single click.
- › Supports brightfield, darkfield, oblique, polarization, MIX (brightfield and darkfield), differential interference contrast (DIC), and shaded relief (SR).
- › See your sample under multiple observation conditions with a single click.

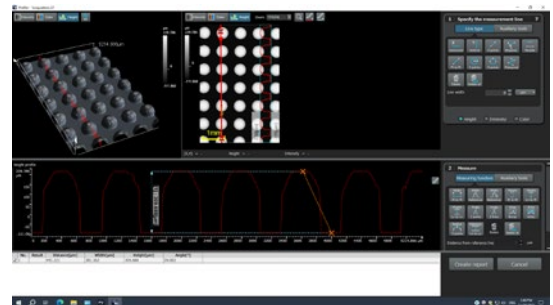


## Advanced Measurements and Analysis

- › Precise 2D/3D measurements
- › Profile measurements and surface roughness analysis\*
- › Image analysis using TruAI™ deep-learning technology, including Live AI
- › Guaranteed accuracy and precision\*\*

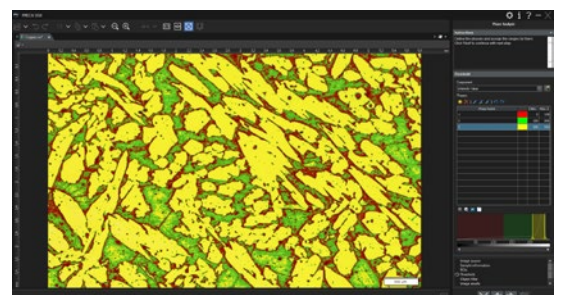
\*Through the optional 3D analysis application

\*\* To guarantee XY accuracy, the calibration must be performed by an Evident service technician.



## Tailor the Software to Your Needs with Optional Modules and Customized Solutions

- › Materials Solutions for specialized applications
- › Dedicated customized software and hardware solutions



# PRECiV™ DSX Version 2.2 Specifications

●: Standard Feature; ○: Optional Feature; —: Not Available

Device Support	
DSX1000/DSX2000 systems and consoles	●
Image Acquisition	
Best image function (all modes, SR, BF, OBQ, DF, MIX, PO, DIC)	●
Video recording	●
Time-lapse acquisition	●
Extended focus imaging (EFI) using manual or instant mode	●
Large-size image acquisition (panorama) using manual or instant mode	●
Combined EFI and panorama using manual mode	●
Automatic EFI using motorized devices, including quick scan mode	●
Automatic panorama using motorized devices	●
Sample navigation and position list management using motorized devices	●
Combination of automatic EFI and Panorama using motorized devices	●
Imaging and Customization Tools	
User interface with functions grouped per purpose	●
Overlay information layer (scale bar, crosshair, digital reticle)	●
On-screen magnification	●
Macro Manager	●
Static annotations	●
Live zoom	●
Measurements/Image Analysis	
Basic interactive measurements (horizontal line, vertical line, arbitrary line, polyline, 3-point circle, rectangle, rotated rectangle, 3-point angle, 4-point angle, perpendicular line, parallel line distance, polygon area, XY distance, distance between two crosslines, circle-to-circle distance, linear ruler, point coordinates)	●
3D line profile measurement and simple 3D measurements	●
3D analysis application: 3D line profile measurements, advanced 3D measurements, and surface roughness analysis of 3D images	○
2D line profile measurements	●
Advanced interactive measurement, including auto-edge detection and auxiliary lines (angle ruler, 2-point circle, rotated ellipse, closed polygon, magic wand, interpolated polygon, multiple perpendicular lines, asymmetry lines, throat thickness)	●
Neural network labelling	●
Live AI	●
Offline EFI, offline panorama	●
Image enhancement filters (edge detection filters, smoothing filters, and sharpening filters), intensity and contrast adjustment, shading correction and background subtraction, dynamic contrast enhancement, morphological filters	●
Reporting	
Data export to an Evident workbook	●
Data export to Microsoft Excel	●
Report and presentation creation in Microsoft 365, Office 2019, and Office 2021	●

	DSX
Optional Modules	
Motorization	●
3D Acquisition	●
Count and Measure	○
Grain Sizing	○
Non-Metallic Inclusions	○
Cast Iron	○
Layer Thickness	○
Porosity	○
Particle Distribution	○
Coating Thickness	○
Phase Analysis	○
Neural Network Training	○
Dendrite Arm Spacing	○
Chart comparison on select standards for grain size, graphite sizing, non-metallic inclusions, and hardened metals	○
Customized software solutions	○

PC Requirements	
CPU	Intel Core i5, Intel Core i7, Intel Xeon
HDD	10 GB hard disk space for installation Min. 50 GB for saving images and data
RAM	32GB RAM (2 x 16 GB) Special requirements to the memory for certain functionality: Training of neural networks: 32 GB RAM 3D analysis application: 32 GB RAM
Operating system (OS)	Windows 10 (64-bit), Windows 11 (64-bit); Editions: Pro, Pro for Workstations, Enterprise
.Net framework	Version 4.8.1 or higher
Optimized resolution	1920 × 1080 (Full HD) 3840 × 2160 (4K), 27 in./32 in. (150% display scaling)
License activation	Using an Internet connection or code-based
Graphics card	64-bit graphics board equivalent to NVIDIA Quadro P620 / T600 / T400 with 4 GB RAM Special graphic board requirements for certain functionality: Training of neural networks: NVIDIA graphics board compatible with CUDA 11, 6 GB RAM



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• Images on the PC monitors are simulated.  
• Illumination devices for microscope have suggested lifetimes. Periodic inspections are required. Please visit our website for details.