

# VersaProbe I to VersaProbe Hybrid UPGRADE

The VersaProbe II has been a large success much like the first-generation VersaProbe I. The upgrade package removes a large part of the analog electronics to modernize many software and hardware features of the VersaProbe II. Listed are the key features and changes gained from the upgrade:

## SmartSoft Key Features

- Simplified user interface & analysis workflow for occasional users and enhanced flexibility for expert users
- Intuitive queue editor for improved automation & throughput
- Point-and-Click in both intro photograph and scanning X-ray image (SXI)
- Real-time system status dashboard during acquisition
- Software-controlled X-ray beam and ion beam auto-tuning & analyzer calibration
- Multilevel system status logging and password protection for critical system parameters
- Automated chemical mapping and mosaic via SmartMosaic



~ 2.7 mm x 1.4 mm Ti 2p (red) and 5.5 x 1.4 mm Si 2p (blue) chemical map overlayed with SXI image



#### New SmartSoft Software

## **Performance Changes**

- 128-channel detection provides excellent chemical state mapping capability improves depth profiling capabilities
- New electronics Improved system/electronics overhead to increase speed
- ~ 5x improvement in switching ion gun setting resulting in time saving during depth profiling
- Service and acquisition diagnostics are markedly improved with electronics/software system status and error reporting
- New USB electronic design





128-Channel Detector VersaProbe II In one shot, without scanning the analyzer, 128 channels of data allows the user to more easily recognize chemical information. This capability improves data quality and can be achieved in a fraction of the time.

### **Upgrade Details**

- *VersaProbe* I card racks removed and replaced with *VersaProbe* II style electronics
- · New intro camera and necessary brackets installed
- New state-of-the-art Windows 10 computer
- Latest version of SmartSoft
- Latest version of MultiPak
- CE-compliant
- · Sample holders will not change
- Image Registration compatible
- System age reset with reduced cost of service contract
- Enables upgrade to all new options, LEIPS, UPS, REELS



**New Intro Camera** 



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