The Elite T is the next generation EDS system for transmission electron microscopy (TEM) utilizing a fast SDD with state-of-the-art integrated electronics. The unique geometry and powerful quantification routines of the Elite T provide optimized analysis solutions for all TEM applications.

**Increased Solid Angle (SA) for Optimal Results**

The design of the Elite T EDS System provides an optimized geometry to ensure the best possible performance. Solid angles of greater than 2 steradians (sr) are achievable with the dual detector option, which increases count rates and ensures faster data collection on sensitive samples.

**Windowless Design**

The Elite T detectors are designed specifically not to require the typical protective window in front of the module. This design:

- Improves the light element sensitivity of the detector
- Enhances the mapping speed and light element detection in low concentrations
- Allows flexibility of sensor placement for maximum exposure to the signal

**Spectrum showing SiO\textsubscript{2} sample collected by Elite T.**

**Electron image and element maps from nitrogen containing bacteria, showing light element sensitivity and applications in Life Sciences.**
Features and Benefits

Integrated data acquisition and signal processing electronics
- Reduces noise for a better signal/noise ratio with improved detection limits

Intelligence built into detector
- Automatic retraction to safe position without user intervention

Automated calibration algorithm
- Fast, repeatable, and accurate setup

TEAM™ Software Suite allows users to optimize their analysis time and get the best possible data from their sample
- Smart Quant - several powerful quantification routines are implemented in the TEAM™ software
- Smart Track - ensures optimal working conditions on setup
- EXpert ID - revolutionary one-step peak identification program
- Smart Mapping - automatically determines collection time required, and identifies the elements present in the sample
- Smart Drift - monitors and dynamically adjusts parameters to account for drift changes
- Smart Data Management - increases ease of use and provides simple file management

Conclusion
The Elite T EDS System with TEAM™ software is the most intuitive and easy to use analytical tool for the TEM applications. It offers fully integrated data acquisition and signal processing, coupled with Smart Features to guide set-up and analysis. With the windowless SDDs, which maximize collection efficiency and optimize light element performance, users are certain of achieving the best possible results in challenging TEM conditions.