

## TESCAN announces the next generation TESCAN TIMA to support Earth science studies and industrial mineral

*TESCAN TIMA incorporates new hardware and software features that address a number of barriers to accurate mineral identification and productivity*

Brno, Czech Republic, November 25, 2020

TESCAN ORSAY HOLDING a.s. announces the release of their next generation TESCAN TIMA, a dedicated solution for automated mineralogical analysis requirements for Earth science studies as well as for industrial mineral processing. TESCAN TIMA delivers rapid access to actionable data across several applications: mineral quantification, petrography, metallurgy, liberation analysis, and other mineralogical or composition studies.

For Earth science studies, TIMA provides an easy to use, automated mineralogy solution that makes petrography and microanalysis faster and more efficient. TIMA is not only capable of handling modal composition routines, but also can determine the composition of entire populations of grains, producing elemental maps of all detectable elements plus the coordinates of minerals of interest. “The geoscience community now understands how automated mineralogy can help them ease their research” states (Paul Gottlieb, TIMA product manager). “By providing an alternative to qualitative assessments performed at optical microscopes, TIMA allows researchers to localize minerals of specific importance quickly and provides quantitative insight to elemental composition and morphological characterization.” When not in use for automated mineralogy, TIMA is a highly capable, stand-alone field emission scanning electron microscope (FE-SEM).

Within the mining industry, TESCAN TIMA handles high throughput, industrial mineral processing applications with minimal need for operator intervention. TESCAN TIMA automates mineral phase identification, measurement and textural data interpretation, then generates the required process mineralogy reports. TESCAN TIMA delivers reliable and reproducible quantitative data to improve processes.

Four EDS detectors each with their own digital pulse processor increase throughput speed for sample processing. TESCAN’s patented high sensitivity spectral summing algorithm assures accurate and reproducible quantification for low abundance elements. Additionally, TESCAN TIMA adopts the ease of use principles of TESCAN’s Essence GUI so new operators quickly become proficient and can work independently. Automation allows unattended operation for faster processing and access to reproducible quantitative data. TIMA data can be processed offline to maximize the tool time for interactive microanalysis.

TESCAN TIMA shares a platform with TESCAN MIRA G4 FE-SEM so it will be familiar to users of our first generation TESCAN TIMA as well as to other TESCAN instrument users. The new generation of TESCAN TIMA includes many new hardware and software features that were developed as a result of suggestions from our users. Learn more about the new generation TESCAN TIMA [here](#).

### About TESCAN

TESCAN is a Czech producer of electron microscopes. The company was established in 1991 by R&D employees and service engineers of TESLA

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Company with the aim to continue in traditional production of electron microscopes in Brno. Tescan presented its first instrument PROXIMA in 1996. This and other model ranges booked Tescan its place among renowned world producers. Long-term expansion and establishment of subsidiaries worldwide culminated in 2013 with establishment of a holding with a French company ORSAY PHYSICS. This gave rise to Tescan Orsay Holding, which still keeps its headquarters, production and R&D in Brno-Kohoutovice. Every Tescan microscope is produced in Brno, even though roughly 95 % of the production travel to customers worldwide. The biggest customers include universities, research centers and industrial and production companies in various sectors. More than 500 Tescan Orsay Holding employees produce nearly 300 microscopes every year, which constitutes the annual turnover of approx. CZK 2 billion.

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