VERDER scientific

IoT

SOLUTIONS FOR YOUR LABORATORY

SMART INSTRUMENTS THAT IMPROVE EVERYDAY LIFE IN THE LAB

DEFINING YOUR GOALS

Over the past years, digitization has entered our professional and personal lives at all levels faster than ever before. It helped us to move things forward in challenging times.

Already widely used in the process industry, this development is becoming more and more evident in the laboratory environment.

One of today's key challenges is to work efficiently under increased cost and time pressures.

This requires new ways of operating to get the most out of existing instruments and to produce reproducible, high quality analyzes that meet increasing regulatory requirements.

TRANSFORM YOUR BUSINESS WITH IOT

ENHANCING OPERATIONAL EFFICIENCY

IoT's real-time data capabilities highlighted as a catalyst for operational efficiency. The ability to access up-to-the-minute information empowers decision-makers to respond promptly, resulting in time savings and operational streamlining.

MITIGATING GLOBAL TIME ZONE CHALLENGES

IoT's real-time functionality presented as a viable solution to circumvent the challenges posed by global time zone variations. By leveraging IoT, businesses and teams can transcend geographical constraints and access critical resources when needed, irrespective of the time zone.

LEVERAGING MICROSOFT'S ROBUST CLOUD INFRASTRUCTURE

Deploying IoT solutions on Microsoft's cloud infrastructure come with numerous advantages. This choice not only ensures rapid data processing and analytics but also guarantees the highest levels of data security.

QUALITY MANAGER

I want to enforce a high quality of work, where all regulations are verifiably complied with in an auditable manner and our equipment as well as processes are optimally coordinated with each other.

LAB MANAGER

The administrative workload simply has to be reduced, and yet I want us to be more productive, to be demonstrably compliant and to make the best use of our equipment.

LAB TECHNICIAN

I would like to be informed at any time about the status of the device and the ongoing analysis. The device should support me optimally in everyday life.

CONNECT AND BENEFIT

YOUR VIRTUAL LABS

Manage your lab the way you like it. For each virtual lab, you can define who has access and what role they play. You can also keep up to date with product improvements and updates. Or you can access documentation and application descriptions.

MAXIMIZE USE & REDUCE DOWNTIMES

Be up-to-date at all times and get notified when it matters for example when measurements are completed, operations are interrupted, or maintenance is required.

This makes it easy to keep track of everything and get things moving when you need to.

KEEP YOUR DEVICE SOFTWARE UP TO DATE!

Updating your software via our IoT platform is a simple and straight-forward process. You can easily update your software by downloading the software file from the platform. Once the file is downloaded, simply run it to install the latest version of the software.

This process ensures that you always have access to the most up-to-date features and improvements.

BACKUP & RESTORE

Wondering what happens when everything stops? Keeping your analyzer up and running doesn‘t have to be complicated!

Define what you want to store centrally (program directory with or without other data) and quickly restore your system in an emergency.

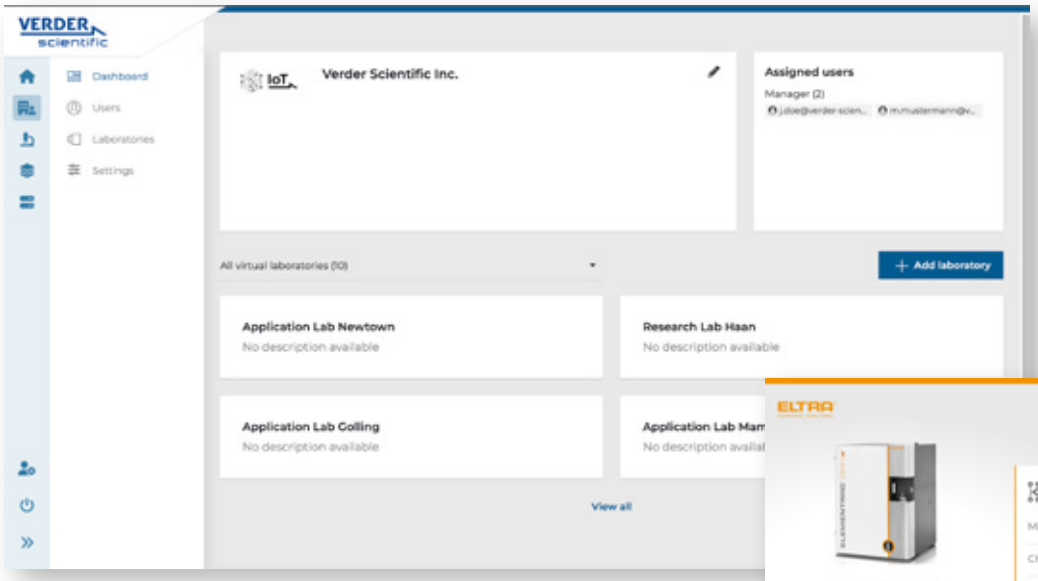
SERVICE & DIAGNOSTICS

Like a PC, the analyzer can also transmit system events. Together with the automatic self-checks, it is easy to monitor the correct status and maintain verifiable and reproducible analysis quality.

And if external help is needed, you can quickly and easily provide our service engineers with the log files they need to troubleshoot, or even give them access to your analyzer.

MICROSOFT’S ROBUST CLOUD INFRASTRUCTURE

Deploying IoT solutions on Microsoft’s cloud infrastructure not only ensures rapid data processing and analytics, but also guarantees the highest levels of data security.



Everything at a glance – clearly designed user interface for every devices

Efficient lab and equipment management requires new steps, which is where our cloud-based platform comes in. We don't turn your lab upside down, we take the next step towards digitalisation with you.

When it comes to data, security is of the utmost importance. Our platform is based on the latest technology from the Microsoft Azure, your data is therefore transferred using the highest industry standards and security certificates.

Building on this infrastructure, we are steadily

TRY IT OUT

Are you curious and want to try it out?

See for yourself how easy and convenient it is to use our IoT platform. All you need is your smartphone and a QR code scanner app. Scan the code below and you will be taken to our platform, where you can explore its features and benefits.
Create your own account and start using the platform for your own projects.

Whether you want to monitor, control, or optimize your devices, our platform has the tools and solutions you need.

There are no costs for using the platform features as part of the trial programme. The range of functions described beforehand is available for the products listed on the following pages.

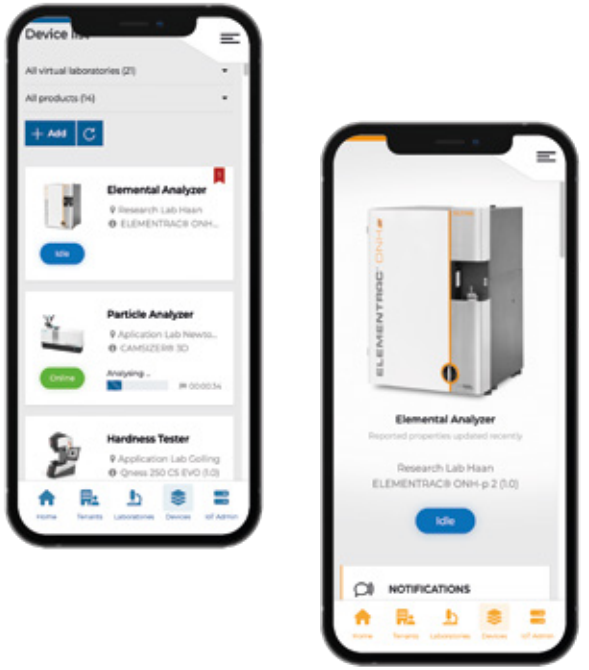
LEARN MORE AND REGISTER TODAY!

https://iot.verder-scientific.com/

DO IT SMART

VERDER SCIENTIFIC, with its six brands, offers a complete range of high-tech equipment for quality control, research and development of solids.

Areas of activity include sample preparation of solids and analytical techniques in the fields of milling & sieving, elemental analysis, materialography & hardness testing, particle characterisation and heat treatment. Our ambition is to digitize all products and integrate them into our Verder Scientific platform.



Download on the App Store

GET IT ON Google Play

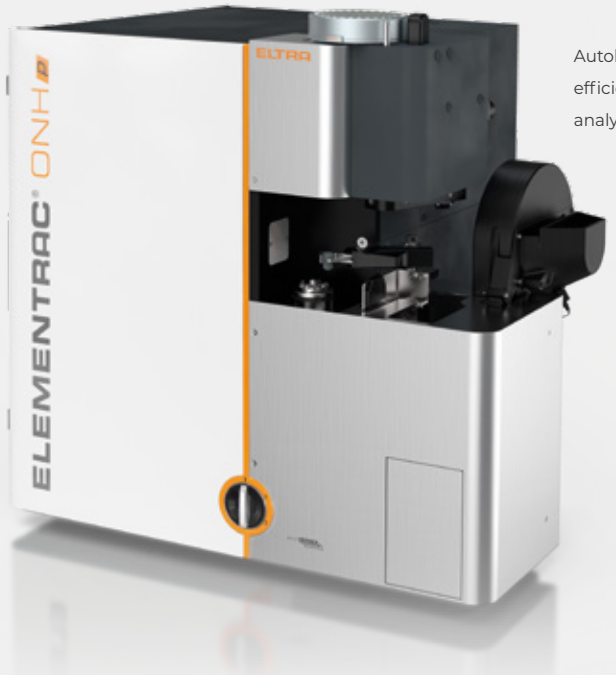
START EXPLORING!

ELEMENTAL ANALYZERS

With the ELEMENTRAC series, ELTRA offers analyzers for the fast and reliable determination of O/N/H and C/S. The common principle is the extraction of elements from the sample either by combustion or inert gas fusion at temperatures up to 3000 °C and above with subsequent measurement of the gaseous reaction products.

In combination with the powerful ELEMENTS software, the user is fully supported throughout the entire process. An automation interface and the convenient LIMS import/export function help with repetitive tasks and the exchange of relevant data. Our CS and ONH analyzer series have optional autoloader for automated analysis of samples.

The ELEMENTRAC analyzer series is therefore perfectly suited for IoT.



Autoloader Systems for efficient C/S and O/N/H analysis

HARDNESS TESTERS

With the Verder Scientific IoT app, you are always connected to your lab instruments. You can remotely control and monitor your analyzes from any mobile device or PC. Get insight into real-time data, analysis progress, settings, working conditions and events of your analyzer, such as completed measurements, interrupted analyzes or required maintenance.

Security is of the highest priority! It is totally up to you what data are transferred from the device to the IoT app through the settings in the QPIX software in your lab.

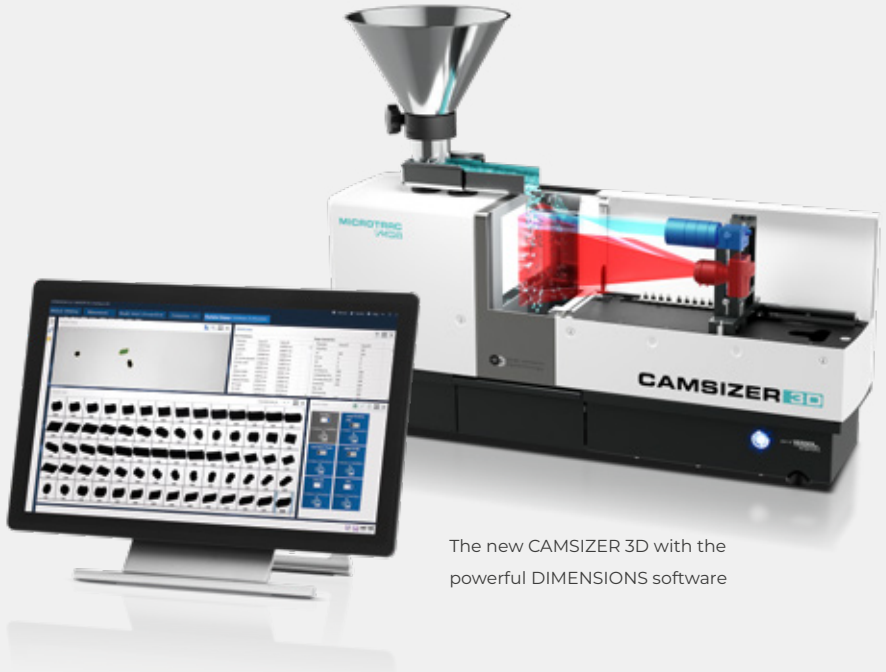
Qconnect is the interface in QATM Qpix Control2 software, providing customers with a full portfolio of inter-device connectivity - from serial production, open XML interfaces (bi-directional) and pre-specified plug-in solutions, such as the QDAS Plug-In+, through to customer-specific connectivity solutions implemented completely by QATM.

And more - it can now do cloud!

PARTICLE SIZE AND SHAPE ANALYZERS

MICROTRAC's dynamic image analyzers can record and quantitatively evaluate many different morphological parameters for all detected particles. The particle size distribution can be based on different size definitions such as particle width, particle length or diameter of equal area circle. Dynamic image analysis can also be used for particle shape analysis to characterize parameters such as roundness, circularity, aspect ratio, convexity, symmetry and many more.

As the newest product in the CAMSIZER series, the CAMSIZER 3D combines all the advantages of dynamic image analysis (ISO 13322-2) in a completely new designed measuring system and, together with its unique 3D measuring method, sets new standards in the characterization of bulk solids. Together with the CAMSIZER X2, it is also the latest product that can be connected to the Verder Scientific platform.



The new CAMSIZER 3D with the powerful DIMENSIONS software

VERDER scientific

VERDER SCIENTIFIC

ENABLING PROGRESS.

Under the roof of Verder Scientific we support thousands of customers worldwide in realizing the ambition we share.

As their technology partner behind the scenes, we deliver the solutions they need to make progress and to improve the everyday lives of countless people. Together, we make the world a healthier, safer and more sustainable place.

www.verder-scientific.com

CARBOLITE GERO
ELTRA
Retsch
QATM
MICROTRAC
ERWEKA