

CBM+/PREDICTIVE MAINTENANCE

Ametek Spectro Scientific

Expeditionary Fluid Analysis System Fieldlab 58



Ametek Spectro Scientific was founded in 1983 as Spectro Inc. and became a business of Ametek, Inc. since 2018. Ametek Spectro Scientific is one of the largest worldwide suppliers of oil, fuel, and fluid analysis instruments to industry, military and laboratories. With over 8000 instruments sold, and customers on six continents, Ametek Spectro Scientific is a leader in the field of condition based maintenance and oil in water analysis.


Our 50,000 square foot headquarters in Chelmsford, Massachusetts houses our manufacturing, R&D, sales, marketing, and service groups. In addition we have facilities in Marlboro, Massachusetts and Beijing, China.

Ametek Spectro Scientific, an ISO 9001:2015 company, develops a broad array of fluid analysis instruments for evaluating machine and lubricant condition in the field, in the lab and in highly mobile, handheld applications. The instruments provide crit-

ical data about machinery condition and can provide an early warning of equipment failure. Our core businesses are oil and grease analysis, fuel analysis and oil in water analysis for regulatory compliance.

Contact

Rachel Li
 978-501-5858
 rachel.li@ametek.com
 www.spectrosci.com

<p>Problem Statement: Developing an efficient system for military and commercial field service professionals to effectively manage and maintain mobile fleets of high-value assets based on their condition.</p>	<p>Benefits Statement: Experience the convenience of on-site field testing with our ruggedly designed small case, integrating four advanced oil analysis technologies, all powered by a long-lasting battery.</p>
<p>Technology Solution Statement: Portable, lightweight devices that provide rapid oil analysis results with quality similar to oil analysis labs.</p>	

FACILITIES AND INDUSTRIAL PROCESS MODERNIZATION

Edlore Inc

Transforming Maintenance Technical Orders with AI-Driven 3D Animation



Edlore is a pioneer in AI/ML and 3D technological solutions, reshaping industry standards with its interactive manuals and wearable device integrations. Our patented AI-driven platform transforms complex technical orders into digestible, contextually relevant insights, streamlining operations. With state-of-the-art mobile and wearable technology, professionals achieve access to crucial data, ensuring efficiency and precision. Our platform also encompasses a robust work order management system, enhanced by asset tracking and multimedia attachments, facilitating seamless operations and maintenance processes. At Edlore, we blend innovation and practicality, consistently delivering excellence in an ever-evolving technological landscape.

Contact

Javid Vahid
 949-690-2245
 javid@edlore.com
 edlore.com

<p>Problem Statement:</p> <p>Despite the rapid advancement in industrial and technical operations, complex equipment service and maintainers often grapple with cumbersome manuals, scattered asset data, and lack of real-time expert assistance. This disjointed information flow increases operational downtime and raises the margin for error. Edlore addresses this pressing challenge by seamlessly integrating AI-driven insights, 3D interactive manuals, and hands-free wearable technology, ensuring precise, efficient, and on-demand data accessibility for professionals in the field.</p>	<p>Benefits Statement:</p> <p>Empowering maintainers with immediate access to AI-enhanced, 3D interactive guidance, reduces operational errors and downtime. The benefits of using Edlore include:</p> <ul style="list-style-type: none"> • More efficient on-board service and repair. • Never miss regular PM Maintenance. • Access to device parts metadata and ability to possibly print the component on board. • Gathering field data from service and repair. • Mobile and handsfree operation.
<p>Technology Solution Statement:</p> <p>Edlore introduces a unified technology suite designed for the modern maintainer. Leveraging AI's power, we've transformed dense manuals into interactive, 3D-guided insights. Our platform, optimized for desktop, mobile and wearable devices, ensures hands-free, on-the-go access to these insights, minimizing downtime. Furthermore, with our real-time Remote Expert Video Chat, professionals are never alone in the field, always having a lifeline to expert assistance. The system is paired with a comprehensive Work Order Management system and dynamic asset tracking. In addition, Remote Expert Video Chat and 3D/AR explosive view with parts metadata that allows you to even send the part to be printed on a 3D printer.</p>	<p>EDLORE <small>Patent No. 10,096,003</small></p> <p>Unlock the Future of Maintenance Excellence Convert tech manuals to interactive 3D</p> <p>FROM THIS → TO THIS → TO THESE</p> <ul style="list-style-type: none"> • Simple User Experience • Technical Documentation Repository • Massive library of 3D parts • AI driven Procedures / 3D animations • Remote Expert Video Chat • Preventative and Predictive Maintenance • Procedural videos and pictures upload • Asset tracking / Repair History <p>REPTX NAVSEA AMERICA'S NAVY FORGED BY THE SEA U.S. AIR FORCE</p>