



Rigaku Analytical Devices Handheld KT-100™ Katana™ Wins R&D 100 Award

Esteemed R&D 100 award has named KT-100™ Katana™ as one of the 100 most innovative products of 2016

(Wilmington, MA, 30th November 2016) - The importance of accurate, durable and on the spot identification of metals and alloys is paramount for reliability, quality of product and profitability for many metal applications. [KT-100™ Katana™](#), a laser induced breakdown spectroscopic (commonly known as LIBS) handheld analyzer, was selected in the Analytical/Test category as one of *R&D Magazine's* top 100 innovative products introduced to the marketplace in 2016. The winners, chosen by both an independent judging panel and the editors of *R&D Magazine*, were announced on Thursday, November 3rd at the Gaylord National Harbor & Resort in Oxon Hill, Maryland. Developed and manufactured by [Rigaku Analytical Devices](#), a leading pioneer of handheld and portable spectroscopic analyzers, KT-100 Katana is the only handheld LIBS analyzer certified rugged to United States Military Standard MIL-STD-810G. The KT-100 provides a new and improved way to identify elemental composition for both heavy and light alloying elements in metals. Primary uses include scrap metal sorting, quality assurance in metal fabrication and positive material identification in petrochemical operations.

Following the win of Rigaku's handheld Raman analyzer, [Progeny™ ResQ™](#), in last year's R&D 100 Awards, the recognition for KT-100 Katana reinforces the company's mission to deliver advanced handheld and portable spectroscopic analyzers that enable customers to achieve rapid lab-quality results at any time, any place.

"The ability to accurately classify metals and alloys is of paramount importance for a number of applications to ensure profitability and product quality. We developed KT-100 Katana to directly address the needs of the metal analyst, regardless of location or environment," said Bree Allen, President at Rigaku Analytical Devices. *"We identified the weaknesses in existing technologies as well as the unmet needs of the end user and utilized the information to design and manufacture a device which performs efficiently and reliably, withstanding harsh environments. We have been developing both laboratory and field equipment for many years and the combination of our expertise and the quality of our instruments is well known within the analytical instrumentation space. We are delighted to have won an R&D 100 Award, which confirms KT-100 Katana as one of the most advanced and robust handheld analyzers on the market, identifying a wide range of metals."*

KT-100 Katana has powerful analytical capabilities, with QuickID™ software allowing identification of even the most difficult alloys in less than two seconds – at the pull of the trigger. KT-100 Katana's MIL-STD-810G and IP 54 certification means the device can withstand the harsh work environments encountered in scrap recycling yards and other industrial facilities. The tests that KT-100 passed included rigorous vibration, shock and drop testing to evaluate its durability and reliability when exposed to environmental stress.

Integrating proprietary Breakthrough Laser Ablation & Detection Engine (BLADE™) technology means KT-100 Katana is the smallest and lightest handheld LIBS currently available on the market. Its Drill Down feature rapidly prepares samples by removing contaminants that can affect positive metal identification. With an extended battery life, KT-100 Katana is also less susceptible to fatigue and downtime, which is critical for on and off-site operations. The GPS and macro-camera allow for instrument and sample tracking. Furthermore, KT-100 handheld LIBS reduces



regulatory headaches and annual licensing fees required by other handheld metal analyzer technologies.

To find out more information about KT-100™Katana™ handheld LIBS please visit www.rigakuanalytical.com or to book a demonstration please email info@rigakuanalytical.com

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About Rigaku Analytical Devices

Rigaku Analytical Devices is leading with innovation to pioneer a portfolio of handheld and portable spectroscopic analyzers for use in the protection of public health and safety, aid in the advancement of scientific and academic study, enable the recycle and reuse of metal alloys, and ensure quality of key metal alloy components in mission critical industries. Our core goal is to be recognized globally for quality, reliability and expertise in all aspects of our business through our commitment to exceed our customers' expectations by providing technologically advanced products. The foundation of our company is our talented team, dedicated to continual product development efforts that improve performance and functionality, resulting in reliable, cost-effective solutions for the end user. Our rugged products utilize integrated software that combines an open architecture platform with user defined settings, delivering unparalleled accuracy and extensive application support, empowering our customers to achieve rapid lab-quality results any time, any place.

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