

ACCESSORIES

Our transformation of metal analysis continues. Beyond Katana's™ superior identification analytics and ruggedized form factor, Katana adapts to provide convenience for any industrial environment with the following:



Docking Station

Continuously charge the analyzer battery and store in a secure location when not in use



Holster

Safely maneuver around the facility with the ability to easily withdraw for immediate use



Li-ion Batteries

Benefit from 10+ hours of continuous operation



Aluminum Check Sample

Verify the instrument's calibration is accurate

SUPPORT

Katana is backed by a global network of sales and service support partners of Rigaku, offering installation, preventative maintenance and prompt service support. 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 scientific instrumentation space. Having built a solid reputation in the analytical world, we are confident that we can firmly establish Rigaku and Katana as the premier solution for handheld metal identification in industrial applications.

Our global customer support team is ready to provide you with assistance, wherever you are.

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 customer's expectations by providing technologically advanced products.

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**Katana™**

*Laser Precise, Rigaku Strong, Cutting-Edge Analysis*



**RELIABILITY PRECISION ACCURACY**



## OVERVIEW

Integrating proprietary **Breakthrough Laser Ablation & Detection Engine** (BLADE) technology, Katana’s unique features and advantages include:

- **Smallest & Lightest Handheld LIBS**  
*Sort All of Your Common Alloys with Ease*
  - **QuickID™ Software**  
*Identify More in Less Time*
  - **10+ hour Battery Life**  
*Avoid Unscheduled Downtime*
- **Durable, Tested Design**  
*Built for Your Environment*
  - **GPS Tracking**  
*Protect Your Investment*

### Scrap Metal Recycling

Scrap metal recycling has become one of the most financially valuable segments in the metal production process around the globe. Depending on the alloy grade, materials and parts leftover from manufacturing can be found in scrap yards that will be sorted and later sold to smelters. These metal parts can have huge monetary worth and has led to a significant increase in the demand for better identification methods to sort metal more accurately.

### Metal Fabrication

Verification of alloy grades, including aluminum alloys, is imperative during any type of metal fabrication. Fabrication and machine shops prepare and assemble various raw materials using different processes. On-the-spot analysis during the manufacturing process is critical, as even the smallest component could have detrimental effects if the incorrect metal type is used.

## APPLICATIONS

### Positive Material Identification (PMI)

Petrochemical, petroleum and power plants have put more stringent positive material identification (PMI) programs in place, to avoid disastrous, even tragic accidents. To ensure safety, it is absolutely imperative that before any metal component is used in the construction of an industrial plant, that the alloy composition is established. Further, verifying metal alloy composition is also crucial for metal alloy already installed with a plant.



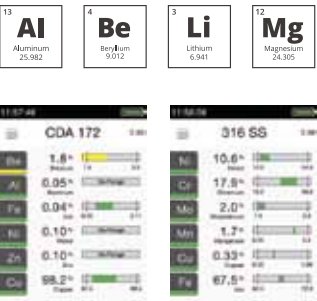
**Laser “On” Indicator**  
Know when the instrument is operating



**Tilt Screen**  
For easy viewing in any lighting, in any position



**QuickID™ Software**  
Easily customize your results layout and eliminate guesswork



**Safety Window**  
Thick safety window keeps dust, scrap and dirt out while allowing sample images and easy data tracking in



**Macro Camera (optional)**  
Sample imaging for data tracking



**Large Button Navigation**  
Use while wearing work gloves



**USB / Power Ports**  
Power and transfer data simultaneously (wireless also an option)



**Trigger / Quick Launch Buttons**  
Ergonomic and intuitive trigger / navigation buttons at your fingers



**Contoured Handle**  
Comfortably handle your Katana all day, every day



**Unique Kick Stand**  
For optimum viewing and grabbing position



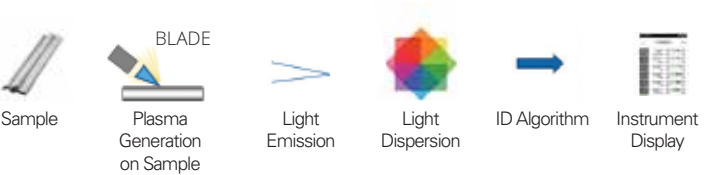
**Rechargeable Li-ion Battery & Sealed Compartment**  
Easy to open and close battery compartment for quickly swapping your battery

## BLADE TECHNOLOGY

Katana utilizes cutting-edge **Breakthrough Laser Ablation & Detection Engine** (BLADE™) technology in the most advanced handheld platform ever designed. In seconds, Katana’s powerful and highly focused laser engine ablates a small amount of your sample, creating a plasma. By analyzing that plasma, Katana measures the chemical composition and with its best-in-class identification algorithm, determines the grade ID of your sample. The collection of this plasma on the same axis (patent-pending) allows Katana to have the smallest footprint versus other similar devices. Katana’s intuitive user interface is designed for maximum convenience and productivity. After powering on and logging in, Katana is immediately ready for analysis without any additional settings.

### Handheld LIBS Benefits:

- **FAST** testing times
- **NO** radiation licensing
- **SUPERIOR** light element capabilities – especially Al and Mg alloys
- **LITTLE TO NO** sample preparation



## KATANA ADVANTAGES over XRF

	KATANA LIBS	XRF
Analysis of any alloy in < 3 seconds	●	
Identification of beryllium coppers	●	
Superior Mg in Al alloy performance	●	
Ruggedized package with no susceptible sensitive components (vacuum sealed x-ray tubes, x-ray detectors)	●	
No regulatory headaches or annual licensing fees	●	