VIKING
ANALYTICS

Viking Analytics MultiViz

The ideal solution for industries dealing with large volumes of complex data or smaller plants implementing automated maintenance monitoring.

MultiViz uses unsupervised algorithms that merge machine learning and physics-based analytics to continuously monitor machine health across hundreds or thousands of sensors and prioritize the assets that require attention. When something changes, its explainable AI automatically describes the symptoms found in the vibration signals. This helps reliability engineers understand what is happening, not just that something has happened.

Viking Analytics is sensor agnostic. MultiViz reads data from any available open data vibration sensors on the market, including wired, wireless, and handheld units. This secures the flexibility to mix or change sensor deployments now and in the future.



AI Features

Automatic priority list – no need for manual inputs	Automatic smart alarms – no need to set alarms
Diagnoses and explanations	Early change detection
Automatic mode identification – understand your machines better	Monitoring for critical assets and balance of plant

Applications

Trusted by	Maintenance companies, Service companies, OEMs, Plants where downtime is expensive.
Industries	Oil & gas, Chemical, Mining, Steel, Pulp & paper, Cement, Transport, Energy, FMCG.
Equipment	Rotating equipment such as motors, pumps, fans, gearboxes. All other time series data.

Operations at scale

- Manage 10-times more machines efficiently
- Decrease downtime and maintenance costs
- Smart alarms with minimal false alerts
- No need for specific machine information
- Works without baseline definition or failure labels
- Prevent unnecessary work due to false alarms
- Continuous 24/7 insights and alarms
- Sensor agnostic: monitor all sensor systems with one tool
- Scalable solution for thousands of machines
- Unlimited user access
- Facilitates maintenance work for non-vibration experts
- Tenant overview offers high-level oversight of the number of alerts and machine status of multiple sites at the same time

Accelerated analysis

- Filter out machines not needing attention
- AI generates priority alerts independent of manually set machine status
- Easily analyze machine behaviors using specific mechanical signal characteristics that can be mapped to symptoms
- Symptoms and changes in machine behavior can be used for root-cause analysis
- Plant-level overview of the machine status and assets requiring attention
- Automatic mode identification categorizes measurements into operational behaviors
- Automatically generated priority list focuses on high-risk and deviating machines

Data & installation

- Utilize Viking Analytics cloud on AWS
- Connect seamlessly to your cloud or any open data service via secure API transfer (e.g., UPC-UA)
- Data ownership remains with the customer
- Incoming traffic is protected by layered security mechanism that include traffic filtering and controlled access endpoints
- Built on AWS with containerized, fault-tolerant services that scale dynamically with workload demand
- Viking Analytics team offers the connector support
- Available as an on-premise solution
- Easily add any number of users
- Direct integration with MQTT
- Five-minute onboarding for MQTT-connected sensors

Interface

- Accessible from anywhere with an internet connection
- Intuitive and user-friendly interface
- Compatible with PC, Mac, and tablets
- Easy navigation between tenant overview (multiple sites), priority view (single site), and analysis view (single sensor)
- Email notifications with quick links for immediate access to information
- Generates summary reports monthly and quarterly

Analysis features

- Time waveform
- Acceleration & velocity FFT
- Harmonics & sidebands
- Delta & orders
- RPM
- Mode visualization
- Behavioral statistics
- P2P, RMS, crest factor, etc.
- Most relevant measurements for analysis
- Temperature and other operational data

Service & support

- Integrated help with convenient search functions
- Email and phone support during European office hours in multiple languages (English, Spanish, Swedish)
- Cloud solution includes all new releases and upgrades
- Customization options available for OEMs
- Regular updates to the platform
- Comprehensive documentation and user guides



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