glassbeam™

Glassbeam Solution for the Ultrasound Market

Healthcare Industry Challenges

Declining reimbursement rates are forcing healthcare providers to become more efficient and cut costs. One key area to optimize costs is transitioning from reactive to proactive service/maintenance of medical devices. Connecting these devices for real-time monitoring and continuous analysis is a key enabler for proactive support/maintenance. For the Ultrasound market, current monitoring and analytics solutions are expensive, inadequate, and fall short on data-driven analysis, resulting in lack of adequate fleet management of these devices under the purview of large hospitals. Glassbeam's solution for Ultrasound disrupts this paradigm by offering advanced analytics based on machine data analytics. Powered by rules, Artificial Intelligence (AI) and Machine Learning (ML) algorithms, Glassbeam provides rich analytics to increase uptime and to improve fleet utilization of Ultrasound devices.

Today, consumable replacements and under-utilization are the biggest cost driver and revenue impact for Ultrasound, respectively. This represents hundreds of thousands of dollars in service cost and lost revenue that healthcare providers can ill afford. What if powerful analytics could reduce the number of replacements and increase utilization significantly? That solution exists today.

Glassbeam Solution for the Ultrasound Market

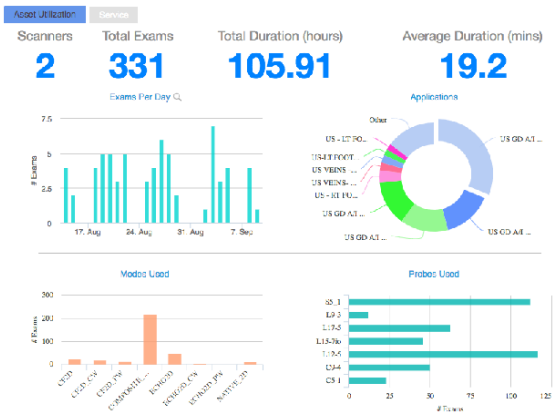
Glassbeam is a leading platform for advanced analytics on complex machine logs generated from medical devices including Ultrasound. Glassbeam's solution for Ultrasound is built using Glassbeam platform's unique capability to process disparate data sources and apply advanced analytics powered by AI and ML. It addresses expensive and inadequate performance monitoring by lowering costs and offering deeper analytics to increase uptime and utilization of Ultrasound devices. Multiple manufacturers, health care providers, and ISOs are either using or evaluating Glassbeam. Key components of Glassbeam's solution for Ultrasound include:

Accurate Asset Utilization with DICOM Integration

Combines DICOM data with machine data to enhance asset utilization across the entire fleet. Provides drill downs on asset utilization by critical metrics including number of procedures, types of application, feature usage, scan assist usage, physician referrals and facility comparison.

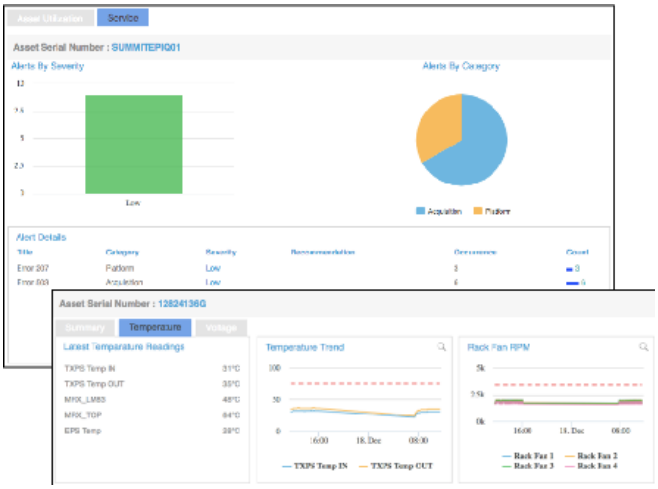
Sonographer Utilization and Procedure Optimization

Analyzes how sonographers have used scanners including machine inventory and utilization pattern, idle time between exams, and comparison of exam time per sonographer. Helps identify which physician uses what application the most as well as determines the need for additional training.



Probe Utilization

Analyzes frequency and duration of probes being used, thereby enabling proactive monitoring of consumables, potential failures and proactive replacement by tracking their lifespan.



Continuous Performance Monitoring

Uses Glassbeam's CLEAN™ (Clinical Engineering Analytics) blueprint for connecting ultrasound systems from all key manufacturers including Philips, GE and Siemens. Data is collected as needed by healthcare providers to monitor these systems, identify issues proactively and prescribe preventive activities.

System Health Dashboard

Enables service engineers to define complex rules on machine logs by uncovering error prone patterns and signatures. Plots historical trends along with recommended solutions based on knowledge base integration for issues detected in the logs. Summarizes analysis to help service engineers decrease time to issue resolution.

Parts Failure Prediction

Deploys AI / ML models on historical data to predict part failures and minimize unplanned downtime. Applies anomaly detection on key performance indicators to identify early warning trends.

Key Benefits for Healthcare Providers

Optimal Utilization

Correlates DICOM data with machine logs to create a true picture of utilization, especially for consumables such as probes.

Multi-Modality Multi Manufacturer Enterprise Services

Provides an integrated view across all OEMs and model types to provide single view of the entire fleet.

Increased Uptime

AI/ML powered solution that provides advanced analytics on machines logs to reduce unplanned downtime.

Enhanced Operator Productivity and Patient Care

Benchmarking and cohort analysis to identify operator training issues, leading to better productivity and patient care.

Data Driven Capital Expenditure Decision

Real-time information on utilization augments decisions to procure right machines at the right time.

About Glassbeam

Glassbeam is disrupting the status-quo as a comprehensive fleet-wide analytics solution for analyzing machine uptime and utilization data in a single pane of glass. We are the premier machine data analytics company bringing structure and meaning to complex data generated from any connected machine in the Industrial IoT industry. Our next- generation cloud-based platform is designed to transform, analyze, and build Artificial Intelligence applications from multi-structured logs, for proactive predictive maintenance. We proudly partner with Smart hospitals to provide a true competitive advantage in the delivery of care.

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