From Visual to Data

Auto-reader for cavitation test

The first system designed to read and digitally record indicator's results for monitoring cavitation energy in ultrasonic washers in SPDs.

Sterile Processing Departments face critical challenges when monitoring cavitation energy in ultrasonic washers.

● **Subjective interpretation**
Visual reading of cavitation indicators depends on individual judgment, leading to variability and inconsistent evaluations of cavitation energy in ultrasonic cleaners.

● **Operational uncertainty**
Without standardized criteria, staff may hesitate when making decisions about process performance and corrective actions.

● **Lack of traceability**
Visual results do not generate documented records, limiting trend analysis, audit support, and long-term process monitoring.

● **Control of critical process variables**
Variables such as correct transducers performance temperature, water quality, and detergent directly affect cavitation energy, which is then reflected in the indicator response.

WHY CAVITATION MONITORING MATTERS?

Cleaning is the first critical step in medical device reprocessing. Any failure at this stage compromises the effectiveness of subsequent sterilization, putting the entire reprocessing cycle—and ultimately patient safety—at risk.

Consistent cavitation performance comes from best practices, not assumptions.

CaviTest
auto-reader

Transforming visual assessment into objective, traceable data

CaviTest is an Auto-reader that complements the CDWU-Z cavitation indicator by standardizing decision-making in ultrasonic cavitation monitoring.

● Objective reading
Detects the final color of the CDWU-Z indicator through transmittance measurement, avoiding visual interpretation.

● Quantifiable Cavitation Index
Converts the measurement into a numerical value correlated with the cavitation energy present in the monitored area.

● Clear result: Pass / Fail
Delivers an unambiguous verdict that supports consistent decisions across operators, shifts, and departments.

● Full traceability
Generates documented records with historical data for audits, process reviews, and trend evaluation.

CaviTest | auto-reader

EASY TO USE
INSTANT READING
RELIABLE RESULTS
PRINTED EVIDENCE
TRACEABILITY
DECISION SUPPORT

Explore how innovation is
redefining cavitation monitoring.

CaviTest
auto-reader

A simple, three-step process

| Insert | Read | Result |

Insert the CDWU-Z indicator into the CaviTest Auto-reader after completion of the ultrasonic cycle.

The system automatically measures transmittance and calculates the Cavitation Index within seconds.

A Pass/Fail result will be printed for recordkeeping and full traceability.

↗ Pass

Cavitation acceptance criteria met. The ultrasonic washer may be used as normal.

↗ Fail

Cavitation acceptance criteria not met. Follow the established departmental procedures for the ultrasonic washer.

Critical variables influencing cavitation performance: Time, temperature, frequency, water quality, detergent, location inside the chamber.

Pass/Fail results reflect the level of energy delivered to the indicator and do not indicate the cleaning effectiveness of the ultrasonic cleaner.

A differentiator

unique

CaviTest
auto-reader

First-in-market solution for cavitation indicators reading

CaviTest is the first Auto-reader specifically designed
to read cavitation indicators and standardize cavitation
monitoring in ultrasonic washers.

FEATURES	CAVITEST	VISUAL APPROACH
Automatic, objective reading	👍	✕
Clear Pass / Fail result	👍	✕
Quantifiable Cavitation Index	👍	✕
Documented traceability	👍	✕
Historical trend evaluation	👍	✕
Reduction of subjective interpretation	👍	✕

Ready to standardize ultrasonic cavitation monitoring?

CaviTest introduces a new best practice for Sterile Processing Departments: objective data, consistent decision-making, and traceable results — when visual interpretation is no longer enough.

Explore more

CaviTest
auto-reader