Instruments
smart solutions & service

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novaLUM II ATP Detection System

Superior Science for Advance Sanitation Control

novaLUM® II

CHARM SCIENCES INC
NOTHING WORKS LIKE A CHARM

Superior Science

Advanced Sensitivity The novaLUM® II ATP detection system utilizes a technologically advanced photomultiplier tube (PMT) that is more sensitive to ATP (adenosine triphosphate) presence allowing detection of lower levels of microbial and organic matter contamination. This is a distinct advantage over systems that use less sensitive PMTs or photodiodes. The novaLUM II system's PMT has low noise, a greater dynamic range, a faster response time, and accuracy over a wider temperature range.

Cost Effective Speed A high-speed data processor allows a quicker 5 second read time. Risks can be assessed immediately, corrective actions expedited, and production started with confidence. Reduce pre-op testing time by as much as 83% compared to other systems.

Audit Compliant Meet internal and 3rd party audits with novaLUM II ATP detection system's Swab Site Location, Re-test option, and a variety of other customizable features to comply with HACCP and GFSI documentation. The novaLUM II system even identifies areas that have not been re-cleaned and/or re-tested. Charm provides calibration documentation, ATP standards, comprehensive on-site trainings, and certification to meet individual requirements.

Auditors look favorably on documented random sampling and corrective action plans within ATP monitoring programs. The novaLUM II ATP detection system eliminates subjectivity by directing operators to swab randomly selected sampling points from within their pre-programmed sampling plans.

Improved Data Analytics The novaLUM II system has improved onboard data analysis tools including the ability to search historical results and add corrective action results and to generate graphs for rapid analysis of Pass/Fail percentages for key areas of the plant. With built-in wireless connectivity these graphs can be emailed to key managers immediately after pre-op.

The **novaLUM II** ATP detection system is the preferred method for monitoring cleaning effectiveness of sanitation programs





Take a Closer Look

Charm has developed scientifically advanced chemistry for the PocketSwab Plus and related Charm tests for sanitation, allergen control and pasteurization verification. This chemistry, combined with the internal multiplication of the novaLUM II system's PMT detector, amplifies even the smallest light signal to detect the lowest level of contamination.

Add Value to Your Business

Charm values our customer's business, brand and reputation. That's why Charm built the novaLUM II ATP detection system with an advanced PMT for superior sensitivity, a complete keyboard for streamlined sampling, and error-proof direct swab-entry chamber.

Bottom Line: Risk is reduced, product quality is improved, and shelf life is extended due to improved sanitation.

Leading by Example

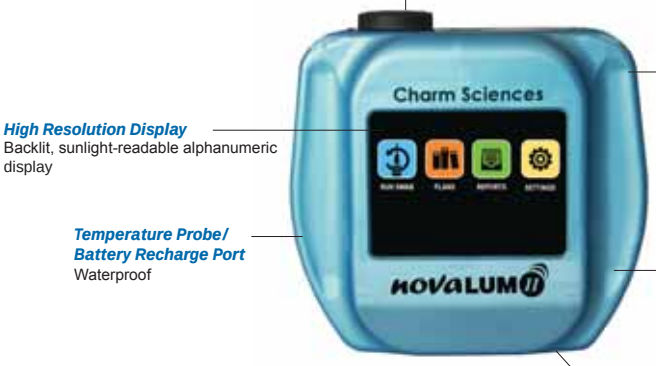
The novaLUM II ATP detection system is used successfully by diverse industries including food and beverage, pharmaceutical, industrial, personal care, cosmetic, and healthcare. Since it is fully customizable and can be preconfigured to meet unique sampling and testing environments, industry leaders choose Charm's novaLUM II system to strengthen their sanitation and hygiene monitoring programs.

Technology Designed to Manage Your HACCP

Benefits Wirelessly email analytical graphs from novaLUM II system

Include corrective action notes directly to test results on the novaLUM II system

Add new swabbing locations through the novaLUM II touch screen



Quick Swab Insertion
No lids or latches

Rechargeable / Replaceable Battery
9 hour run-time

High Resolution Display
Backlit, sunlight-readable alphanumeric display

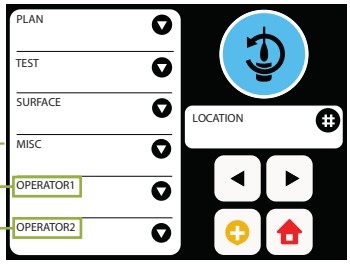
Temperature Probe/ Battery Recharge Port
Waterproof

Ergonomic Design
A durable molded casing allows for fast texting-like operation

RS232/USB nova Link
Faster data transfer

Touch Screen
Extremely easy menu selection

Customizable Home Screen



User-Friendly Run Screen
Multi-operator use and location settings

MISC Field
Can be enabled allowing notes before running a test

Canned Notes
Quickly enter or edit notes

Graphic Capabilities
WiFi enabled settings allow information to be emailed anywhere

Data Options

nova Link

Charm's highly customizable **novaLINK 4.0** software provides complete document control and optimization of sanitation programs

Dashboard Analytics Improved dashboard analytics with dynamic, modifiable graphs that update critical metrics upon seamless download of test data into the software. Achieve maximum productivity with novaLINK 4.0 software's simple-to-use, point and click interface to easily access, analyze, and manage data from multiple novaLUM II ATP detection systems.

Customized Reports Simplified reporting function allows filtering and selection of data needed to build customizable reports. Preprogrammed interactive graphics enable simplified monitoring of corrective actions. This data can be integrated into LIMS system.

Flexible and Configurable The novaLUM II ATP detection system is programmable by swab site, grouped sites, facility layout, product line, process type, shift periods, cleaning programs, surface type, up to two Operator IDs, novaLUM II ATP detection system serial number, and limits with pass/fail interpretation.

Maximize Your Investment

One Instrument, Multiple Tests: The novaLUM II ATP detection system's unprecedented versatility allows for a variety of different luminescence tests to be run with a single instrument.

PocketSwab® Plus swabs utilize unique, patented technology to detect ATP associated with microorganisms and food/organic product residues on surfaces. Swabs are room-temperature stable, self-contained, single-service test that enables total surface hygiene verification in only 5 seconds, allowing real-time corrective action.

AllerGiene® swabs help prevent cross-contact contamination from allergenic food residues by monitoring food contact surfaces and final rinse water with a highly sensitive ATP test. Swabs strengthen allergen control programs by improving cleaning efficiency. They also augment specific protein based testing by providing a faster, simpler and more convenient method for allergen control.

WaterGiene swabs are a rapid sanitation/hygiene test used to detect the presence of ATP as a marker for biological contaminants in water and on wet surfaces.

FieldSwab® swabs are the first ATP bioluminescence test specifically engineered to work on product contact surfaces in outdoor environments. They are also room-temperature stable, saving on storage and shipping costs.

CideLite

CideLite detects pesticides in water, feeds, milk, fruit, vegetable and a variety of other food products.

F-AP Test
Fast Alkaline Phosphatase

Charm F-AP test is a simple one-step phosphatase method to verify completeness of pasteurization in dairy products. Results are delivered in just 45 seconds. NCIMS and FDA Approved.

PASLite
Alkaline phosphatase test

PasLite monitors pasteurization efficiency by detecting alkaline phosphatase in dairy products. NCIMS, IDF, FDA and ISO Approved.

Specifications

Unit Dimensions	5.25 x 5 x 2.6 inches (13.3 x 12.7 x 6.6 cm, W x H x D)
Screen Dimensions	2.3 x 1.5 inches (5.8 x 3.9 cm, W x H)
Weight	1 lb (450 g)
Power Source	Internal rechargeable battery; AC operation during recharge
Power (AC)	Adapters for 110 V / 60 Hz or 220 V / 50 Hz
Power Save	Adjustable shut-off time to conserve battery when no activity
Battery Monitor	Continuous battery status display with low battery warning
Swab Chamber	Patented open-chamber design; no lids, latches or doors
Calibration (ATP)	Factory-set to traceable Primary Reference Standard (ATP controls available for verification)
Memory Capacity	16384 test results
Regulatory	CE approval

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