

novaLUM ATP Detection System—
Superior Science for Advanced Sanitation Control

novaLUM®



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

Time is Money novaLUM's 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's Swab Site Location Re-check option, and a variety of other customizable features to comply with HACCP and GFSI documentation. The system even identifies areas that have not been re-cleaned and/or retested. Charm provides calibration documentation, ATP standards, comprehensive on-site trainings, and certification to meet individual requirements.

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



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 system with faster read-times, 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 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 ATP detection system to strengthen their sanitation and hygiene monitoring programs.

**Quick Results =
Faster Pre-Op Inspection**


**Reliable Detection =
Confidence in Results**

Maximize Your Investment


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




PocketSwab Plus utilizes unique, patented technology to detect ATP associated with microorganisms and food/organic product residues on surfaces. PocketSwab Plus is room-temperature stable, saving on storage and shipping costs, and making it easier to transport to multiple inspection sites.



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



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

F-AP₁Test

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 Approved.

PAS₁Lite

Alkaline phosphatase test

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

Cide₁Lite

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

Instrument Overview

High Resolution Display

Backlit, sunlight-readable alphanumeric display with 18 characters per swab site

Toggle Button / Feature Navigation

Extremely fast scrolling and menu selection

Sealed Tactile Keypad

Water-resistant and durable

Battery Recharge Port

RS232

Serial port

Quick Swab Insertion

No lids or latches

Rechargeable / Replaceable Battery

9 hour run-time

Temperature Probe

Ergonomic Design

A durable molded casing allows for single-hand operation

USB

nova
Link™

Faster data transfer

Data Options



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

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.

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 systems. Complete data archive capabilities enable analysis of historical records.

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.



Specifications & Order Codes

Specifications	Unit Dimensions	7.1 x 3.9 x 2.3 inches (18.1 x 9.8 x 6.0 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	4,999 test results; 400 swab sites per sampling plan
	Regulatory	CE approval

Order Codes	novaLUM with carrying case, PocketSwab carrying case, USB cable and novaLINK	NOVALUM
	1000 Tests, Charm PocketSwab Plus	POCK-PLUS-100K
	700 Tests, Charm PocketSwab Plus	POCK-PLUS-700K
	400 Tests, Charm PocketSwab Plus	POCK-PLUS-400K
	100 Tests, Charm PocketSwab Plus	POCK-PLUS-100K
	100 Tests, Charm AllerGiene	POCK-ALRG-100K
	100 Tests, Charm WaterGiene	POCK-H2O-100K
	100 Tests, Charm FieldSwab	POCK-FIELD-400K



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