

Advancing Battery Maintenance

INNOVATIVE CHARGERS, ANALYZERS AND RAPID-TEST SYSTEMS

ISO 9001 and ISO 13485 Standards



www.cadex.com



Expert Battery Care

CADEX ELECTRONICS INC

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Cadex Electronics specializes in the design and manufacture of battery chargers and analyzers, as well as advanced rapid-test and monitoring systems. Sold in over 100 countries, Cadex products are known for their robust design, reliable service and long product life. With a passion for discovery and innovation, Cadex continues to invest heavily in the fields of battery diagnostics and monitoring.

Battery University

www.BatteryUniversity.com is an educational website that addresses strengths and limitations of batteries in the hands of the everyday user. The papers evaluate different battery types and offer the best choice for a given application. They help busy professionals needing a crash course on batteries; engineers searching for a battery to launch a new product; students seeking answers for an academic project; and the everyday battery users wanting to prolong battery life.



WHY HAVE A BATTERY MAINTENANCE PROGRAM?

- **Safety:** a high volume of radio traffic means that batteries must have a certain level of capacity to make it through every shift
- **Cost Savings:** using quality battery service tools will extend the life of your batteries resulting in lower replacement costs
- **Mission Critical Reliability:** being able to track your fleet of batteries will ensure that they are ready for action whenever they are needed



HEALTHCARE

Cadex Battery Maintenance Systems ensure that all batteries meet specified equipment requirements to support reliable patient care.



MILITARY

Track your fleet of batteries to ensure that your equipment is always ready for deployment.



PROFESSIONAL MOBILE RADIO

Increase reliability and lower operating costs of mission-critical portable radios.



ADVANCED BATTERY TESTING

Precise testing and flexible programming at every stage of product development ensures quality.



AUTOMOTIVE

Our patented Spectro™ technology quickly provides accurate results reducing warranty costs and increasing customer loyalty.



UPS BATTERY BACKUP SYSTEMS

Ensure that power is available when you need it by testing capacity: the leading indicator of battery health.



MOBILE DEVICES

Increase customer satisfaction by providing an immediate diagnosis for common battery issues.



SCANNERS

Battery maintenance is inexpensive to implement and contributes significantly to system reliability and your bottom line.

The success of Cadex products is based on superior quality and first-class customer support.

OUR TECHNOLOGY

Rapid Test Technology

Cadex continues to focus on developing innovative methods to rapidly assess a battery's state-of-health.

SPECTRO™ Based on multi-model electrochemical impedance spectroscopy, Spectro™ estimates the capacity, CCA and state-of-charge of lead acid batteries in under 30 seconds.

QUICKSORT™ Rapidly classifies Li-ion batteries to ensure their usability in mobile phones and other devices.

Advanced Charging Technology

The Cadex Universal Conditioning Charger (UCC) module offers refinements and safety features usually not found on competitive chargers. The rugged design stands up to the critical demands of industrial users.

- Supports Li-ion, NiMH, NiCd chemistries including auto charge selection by code detection
- Conditions and calibrates on demand
- Interchangeable battery adapters permits field swapping
- Wide voltage range: 3.6V to 15V at 15W and 25W
- 50mA to 3A at an input from 12VDC to 36VDC
- Can be configured for solar charging applications



Universal Conditioning Charger



C5100

Mobile Devices - Batteries are blamed for most cell phone problems. To satisfy the customer, batteries are replaced, often to have the fault recur. The Cadex C5100 battery analyzer assists by performing QUICKSORT™ testing at storefront.



C7400

C8000



Battery Maintenance Systems

Battery Maintenance Systems featuring the C7x00 family of analyzers allow users to test, track, label, and maintain fleets of batteries to ensure their equipment is always ready to go and save money on unnecessary battery replacements.

Advanced Battery Testing

Whether you are designing a new medical device or power tool, testing your battery over its service life or ensuring quality on your production line, the C8000 Advanced Battery Testing System will provide confidence in the performance of your batteries.

CUSTOM SOLUTIONS

Design Expertise: Cadex's design team utilizes their in-depth experience to deliver products that exceed our clients' expectations.

Technology: In addition to end to end design and manufacturing, Cadex has a dedicated R&D team that is continually developing new technology and advancing the science of testing and maintaining batteries.

- Our expertise lies in electronic sensing, measuring techniques and digital power supplies.
- Special attention is placed on charging, SMBus systems and electrochemical impedance spectroscopy.
- Our custom systems include electrical circuits, embedded firmware, software and mechanical designs.

Manufacturing: Cadex consistently rates at the very top of its OEM customers' quality metrics and offers the flexibility of local manufacturing for small run products or taking advantage of its global supply chain for high volume.

- ISO 9001 and ISO 13485
- IEC 60601
- Employ industry standard development tools such as Solid Works and Pro/Engineer
- CSA, UL, CE, PSE as required
- All products undergo rigorous testing and inspection prior to shipment
- State-of-the-art CNC machining for plastic and metal enclosures

Spectro CA-12



Automotive - The Spectro CA-12 handheld rapid tester for auto and trucks incorporates patented Spectro™ technology to allow you to determine the capacity of lead-acid starter batteries: the leading indicator of battery health.

BATTERY MAINTENANCE FOR MISSION CRITICAL EQUIPMENT

Professional Mobile Radio / Military – Cadex Battery Maintenance Systems are utilized by police, fire, EMS, and military operations around the world. Our products support the safety of first responders by ensuring that only tested batteries with acceptable capacity levels are in service.

Healthcare – The batteries in portable medical equipment play a vital role in delivering patient care. Cadex Battery Maintenance Systems assure that all batteries meet specified equipment requirements, ensuring reliable patient care.

Since 1980, battery users worldwide have turned to Cadex for advice on how to improve battery life and reliability.

www.cadex.com

Cadex Electronics Inc.
22000 Fraserwood Way
Richmond, BC V6W 1J6 Canada
Tel: +1 604 231-7777
Fax: +1 604 231-7755
Toll Free: 1-800 565-5228

Cadex Electronics USA
Minneapolis, Minnesota
Toll Free: 1-800 565-5228

info@cadex.com

Cadex Electronics Europe
Grünberger Straße 27,
90475 Nürnberg, Germany
Tel : +49 (0) 911-240-332-11
Fax: +49 (0) 911-240-332-29