

# MobileCare

Software Solutions



## MobileCARE



MedCARE



LiFeCARE



FleetCARE

HOWARD<sup>TM</sup>  
MEDICAL

Redefining  
*Medical Technology*



## Howard Medical Software: MedCARE

Med Display  
Med Manager  
Med Audit  
OneClick



### MED DISPLAY

Med Display allows a user to fully control, update, and administer all of a cart's electronic drawer functions from the local PC.

- Users can be added, removed, or edited on the cart via the Med Display setup interface
- The local user list can be exported to or imported from a CSV file for easy editing of large user lists
- Manage local cart data and settings, such as:
  - Cart name & serial number
  - Adjust the drawer relock timeout
  - Calibrate drawers for new cassette configurations
  - Set pharmacy and temporary nursing codes
- Med Display user interface provides a large on screen keypad, useful for accessing drawers in a touchscreen environment
- Displays countdown till drawer relock when a user unlocks the cart
- Notifies the user of any drawers that are not fully closed at relock via a flashing "Open" button
- Med Display also contains a background service that communicates with the Med Manager application, allowing for remote administration of the cart



### MED MANAGER

Med Manager combines the cart administration features of Med Display with the ability to remotely manage and update carts.

- The administrator can discover carts on their network via IP range scan or import a list of carts to communicate with by hostname
- Maintains a master user list that contains all users from all carts
- Users can be assigned to specific user groups
- Interface for adding/removing/editing users
- User list can be exported to or imported from a spreadsheet to allow easy management of large user lists
- The administrator can build a cart user list that is remotely updated on all specified carts
- Med Manager can update the data and settings of electronic drawer systems on individual or groups of carts
- Can be used to retrieve, view, and save Med Audit data about cart access events





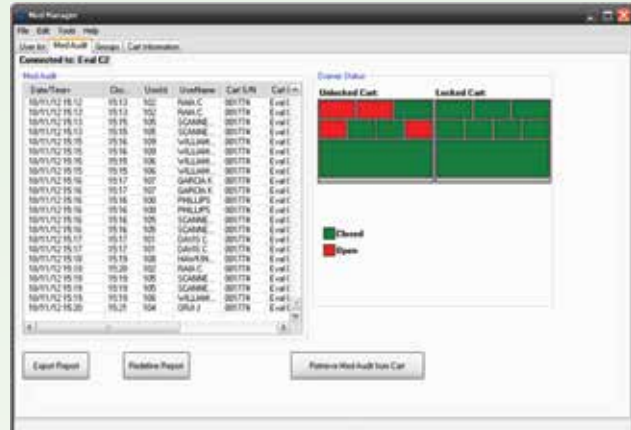
## MED AUDIT

Med Audit is a feature of Med Manager used to retrieve comprehensive drawer access logs from carts.

These logs retain up to 1000 drawer access events, and consist of the following data:

- Date/Time of drawer access
- User Name, User ID
- Cart Name, Cart Serial Number
- Drawers accessed
- Date/Time of relock

Any drawers left open at time of relock Med Audit data can be exported and saved as HTML or CSV files.



## ONECLICK

OneClick application is a simple, one button user interface that will allow a user to access med drawers without supplying a specific ID.

- Useful in environments where desktop permissions are used to govern cart access
- Allowing the OneClick application to load with a desktop profile will grant that user single click access to a cart
- Consists of a small, movable UI element. Can be operated in permanent overlay mode, staying in the foreground over other application windows
- Creates an audit log containing the following:
  - Windows username
  - Client Machine Name
  - Unlock Time
  - Relock Time
- Audit data can be saved to specific network location
- Works with Narcotics drawers, requiring Narc ID after general unlock button for added security





## Howard Medical Software: LiFeCARE

Clinical Assistant  
Power Display  
Power System Remote Monitoring (PSRM)



## CLINICAL ASSISTANT

Clinical Assistant displays vital information about the cart power system on the PC screen in a concise, non-intrusive manner.

- The 10-step battery level indicator provides clinicians with at-a-glance power and charging status information, and is highly configurable by the user
- Can be repositioned anywhere on the PC display
- Adjustable transparency
- Can exist in a permanent overlay mode, persisting in the foreground over other application windows
- Configurable message windows can alert the user when the cart is in a low battery state and when the cart has been charged back to an acceptable level
- By setting these minimum/maximum charge level indicators, administrators can encourage proper charging procedures
- The charge message windows can be set to always visible, unable to be closed by the end user, until the cart reaches the desired recharge level
- The Clinical Assistant program obtains power system data directly from the Power Display service

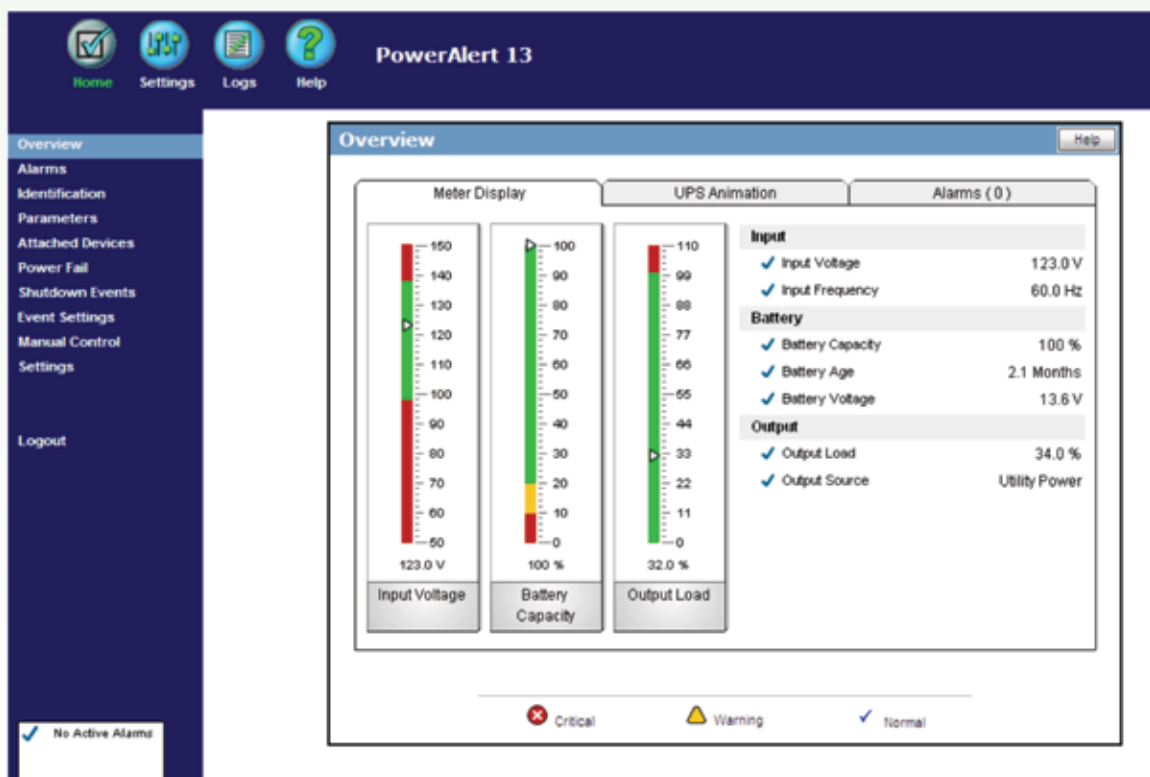




## POWER DISPLAY

Power Display is a client application that runs as an easily accessible web service, recording cart power levels and charging data. This data is presented to the user via a web interface, accessible from anywhere on the customer's network.

- Provides real time monitoring of several power system variables, including:
  - Battery Capacity, Age, Temperature
  - Input Frequency & Voltage
  - Output Frequency, Voltage, and Output Load
  - Charging Status
  - Power Supply Self-Test Information
  - Last Runtime to Low Battery
- Power Display calculates the cart's actual uptime via the last runtime to low battery variable, giving administrators an accurate, immediate assessment of a cart's battery condition
- Begins runtime recording when the battery capacity is over 90% and the cart is discharging
- Saves total runtime when low battery state reached
- Disregards any runtime calculation that is interrupted by recharge or restart
- Overwrites any previous runtime that is lower than the currently recorded runtime, even on an incomplete discharge
- Power Display retains detailed logs of power system events, as well as raw power system data
- Data is logged to exportable text/csv files, and important data points can be graphed within the Power Display application
- Can alert users when alarms occur via email, SNMP notification server, or by a custom script
- The Power Display client sends local cart data to the Power System Remote Monitoring server (PSRM) for long term data storage and fleet power management





## POWER SYSTEM REMOTE MONITORING - PSRM

PSRM software provides fleet level power monitoring, troubleshooting, and inventory management for Howard Medical Carts.

- PSRM monitors all Howard Power System carts on your network, recording live power data and generating alarms by the following process
- Power data is requested from all carts every 2 minutes
- PSRM compares the data to defined thresholds
- If the data is out of bounds, PSRM puts that cart into an alarm state – Warning/Critical – and checks for a matching Notification Rule
- PSRM sends an email notification to users in the alarm rule, escalating to higher level groups if the alarm persists



### Cart Alarms

Each cart data point is visible, along with any associated alarm status.

Name	Status	Location	Monitor Attributes	Last Time
Engineering Inactivity	Warning	Engineering	Engineering Inactivity	2013-04-17 02:10:33 (30:00)
Input Temperature	Warning	Input Temperature	Input Temperature	2013-04-17 02:10:33 (30:00)
Alarm Test	Warning	Alarm Test	Alarm Test	2013-04-17 02:10:33 (30:00)
Battery Age	Warning	Battery Age	Battery Age	2013-04-17 02:10:33 (30:00)
Battery Capacity	Warning	Battery Capacity	Battery Capacity	2013-04-17 02:10:33 (30:00)
Battery Charge Time	Critical	Battery Charge Time	Battery Charge Time	2013-04-17 02:10:33 (30:00)
Battery Condition	Warning	Battery Condition	Battery Condition	2013-04-17 02:10:33 (30:00)
Battery Temperature	Warning	Battery Temperature	Battery Temperature	2013-04-17 02:10:33 (30:00)
Battery Voltage	Warning	Battery Voltage	Battery Voltage	2013-04-17 02:10:33 (30:00)
Alarm Status	Warning	Alarm Status	Alarm Status	2013-04-17 02:10:33 (30:00)
Input Voltage	Warning	Input Voltage	Input Voltage	2013-04-17 02:10:33 (30:00)

### Notification Rules

Notifications in the form of alarm emails are sent to users or groups each time an alarm occurs.

### PSRM – Diagnostics & Power History

- PSRM retains a detailed history of power system data and events
- This data can be used to diagnose an existing issue, or used to prevent future power problems
- Battery capacity graphing
- Power system temperature alarms
- Output load graphing to monitor the power profiles applied to cart computing devices
- Last Runtime history alarms can warn that a cart battery will soon reach an unacceptable runtime
- Comprehensive report spreadsheets that allow the comparison of several data points to create a complete cart performance profile



### Power System History - Capacity

- Historical graphs cover several data points – capacity, load, temperature, etc.
- They can be viewed over a custom date range, and present a clear picture of cart use and performance

### Real Time Cart Dashboard

Each cart's data is viewable as one of several real time dashboards, showing the last data received for every variable monitored by PSRM.



## Howard Medical Software: FleetCARE



### Mobile Fleet Management

#### What can Fleet Care Do for You?

- Find under utilized carts to optimize deployment
- Level battery usage to extend battery life
- Monitor cart usage patterns to verify appropriate use
- Discover poor battery charging practices
- Schedule preventative maintenance based on cart history
- Find carts with excessive power usage
- Identify areas with wireless network issues

#### Comprehensive Report Spreadsheet

- Highly configurable reports provide meaningful data
- Allows filtering on various cart descriptors and groupings
- Provides user selectable data filters and sorting
- Typical reports include:
  - Average daily cart utilization
  - Average daily battery levels
  - Battery health
  - Average power usage
  - Network connection history
  - Percent of time on charge

Device Name	Location	Model	Battery Type	LRTLB Last	LRTLB Min	LRTLB Max	Above 40% Output	Unplugged	Unreachable	Max Temp	Battery Age (M)
Cart 22	3 West	HC150LVR Li	lithium phos	651.00	651.00	651.00	2.00%	37.00%	0.00%	58.00	17.30
Cart 17	9 West	HC150LVR Li	lithium phos	668.00	668.00	753.00	3.00%	13.00%	27.00%	55.00	17.30
Cart 09	6th Floor	HC150LVR Li	lithium phos	677.00	677.00	677.00	2.00%	38.00%	26.00%	61.00	17.30
Cart 04	5th Floor	HC150LVR Li	lithium phos	682.00	682.00	682.00	8.00%	29.00%	0.00%	56.00	26.20
Cart 27	3 South	HC150LVR Li	lithium phos	691.00	691.00	691.00	21.00%	10.00%	14.00%	38.00	17.30
Cart 51	2nd Floor	HC150LVR Li	lithium phos	692.00	692.00	692.00	17.00%	15.00%	0.00%	62.00	26.10
Cart 08	3 West	HC150LVR Li	lithium phos	702.00	702.00	702.00	1.00%	14.00%	1.00%	59.00	17.30
Cart 03	4th Floor	HC150LVR Li	lithium phos	597.00	597.00	597.00	93.00%	56.00%	0.00%	62.00	26.20

#### PSRM – Fleet Asset Management

- Auto discovery tool to find carts on your network
- Database tools for organizing and maintaining asset data such as cart serial, power supply type, cart location, cart name and description, asset number, purchase and deployment history, etc.
- Create geographical layouts of multiple locations on which carts can be assigned down to the unit level
- Assign PSRM users to cart groups or locations and control which users can manage each group

#### Geographic Site Layout

Facilities are represented by the highest level of alarm present on carts in that location.

#### Device Asset Management Info

Each device can be assigned asset information for easy management, such as deployment dates and warranty contact info.



# CONTACT US

If you have any questions about our line of Howard Medical point-of-care carts or technology partner products, feel free to contact us for more information.

## General Information

Toll free: 1.877.856.6441

## Web

[howard-medical.com](http://howard-medical.com)

Live chat available M-F, 8-5 CST

## Customer Support

Toll free: 1.888.323.3151

## Social Media



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## Technical Support

We provide FREE telephone technical support 24/7, 365 days a year for as long as you own your Howard product. Our friendly, US-based team of experts will answer your questions about the product, hardware setup, or installation, and with telephone hold times of typically less than 1 minute!

For technical support call **888.323.3151** or visit us on the web at **[www.howard-medical.com](http://www.howard-medical.com)**.

# HOWARD<sup>TM</sup>

## MEDICAL

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