



IonManager

DIGITAL IONIZATION SYSTEM MANAGEMENT SOFTWARE

IonManager software monitors, analyzes, and manages Ion's Digital Ceiling ionization system (Digital Ceiling Emmitter Model 5515 and Controller Model 5582). The software provides customers with a cost-effective way to manage system maintenance requirements by automating the administration of ionization performance.

IonManager features a simple graphical image of the ionization system with drill-down hierarchy to individual components for instant identification of status and operational parameters. Alarm conditions are easily viewed from real-time graphical displays, e-mailed notifications, and integrated summary reports. System performance can be easily analyzed by accessing history logs or by using the software's statistical and graphing tools. Information can also be exported into common analysis packages.

IonManager is a custom application of Ion's established, full environmental monitoring system, Novx PEMS (Process Environment Monitoring System), with LabVIEW-based architecture. When users are ready to add additional monitoring capabilities, IonManager is easily upgraded to the full PEMS system.

Features and Benefits

- User configurable alarm event notification
- Prompt alarm notifications based on customer preferences
- Real-time data capture
- View and analyze historical data
- User friendly interface
- System components are easily navigated with graphical, hierarchical tree, or status-based layouts
- Customer configurable
- Your facility layout is mapped and displayed as part of interface
- Click and drag changes
- Easily update ionizer location changes



Specifications

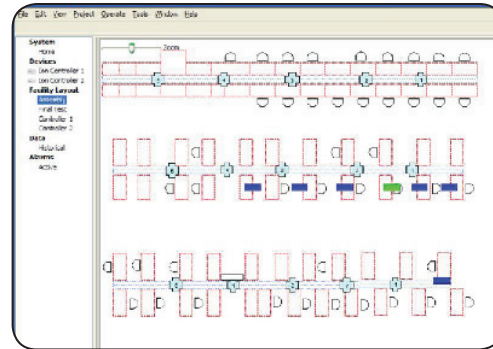
IonManager (A PEMS Application)	
Data collection	<ul style="list-style-type: none"> • RS-485 or Ethernet ports • Compares actual measured values to control limit values in real time • Produces fault log data stream
Data archiver	<ul style="list-style-type: none"> • Data stream from data collector • Creates hour/day/month/year reports • User-selectable polling periods
Output file formats	CSV (imports into spreadsheets)
Net interface	Incoming TCP/IP connections; password verification
Data viewer	<ul style="list-style-type: none"> • Area selector • Multiple graphs • User-selectable facility layout display • Alarm status colored symbols • Live data to historical data
Software requirements	Windows NT/2000/XP
Hardware requirements	PC-compatible computer with 2 GHz processor, 1GB RAM, CD-ROM, 1024x768 color monitor, Ethernet and RS-232 ports (computer not included) Layout drawings of each area are required in jpg, png, or bmp file formats for system configuration
Interface features	<ul style="list-style-type: none"> • Overview of the controller and ionizer system • Facility layout
Ionizer compatibility	<ul style="list-style-type: none"> • Model 5515 Digital Emitter • Model 5582 Controller
Options	Upgrade to full PEMS

Upgradable to PEMS

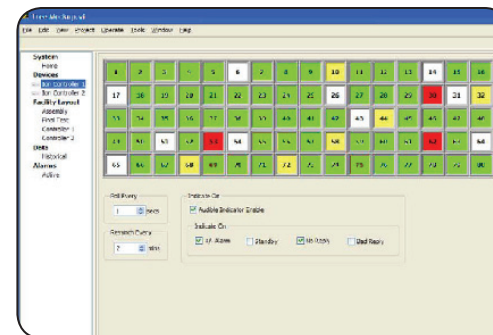
IonManager can be seamlessly upgraded into the full PEMS software package with manufacturing environment monitoring and reporting capabilities, including:

- ESD (electrostatic discharge) events
- Static charge and voltage levels
- Humidity
- Temperature
- Particle counts

Full PEMS capabilities allows you to manage, monitor, and control yield-impacting environment parameters in critical areas, such as reticle production, reticle stockers, FOUF clean, wafer clean, and anywhere sensitive devices are present. For more information about PEMS, please contact MKS, Ion Systems.



The facility layout view provides mouse-over status reporting with click and drag and click ionizer layout capability.



The controller layout view offers status verification for each ionizer.

Alarm Management

Alarm reporting with instant notification is an important feature in IonManager. Controller alarms indicating ionizers that are not responsive or operating at peak performance trigger user notifications. These notifications allow you to quickly respond and correct an alarming ionizer, ensuring constant optimal ionization. Color-coded for fast identification, real-time ionizer and controller status is viewed on graphical layouts or hierarchical trees.

Alarm events are registered in summary report logs, which are automatically updated to reflect the current status. Reports can be downloaded into spreadsheets or the raw data can be accessed and saved for later review. Alarm summaries display the type of alarm, the time it occurred, and which ionizer alarmed. Data can be sorted for alarm and area analysis.

Ordering Information

91-5582-SW-VX	IonManager software (VX represents current version number)
91-5515U or C-XX	Digital Ceiling Emitter Model 5515 (U = silicon points; C = titanium points; XX = rod length)
91-5582	Digital Controller Model 5582
91-5572	Remote Control Model 5572
91-5571	Handheld Terminal



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