

Overview

FireWorks is a family of software and hardware options designed to work in concert with GE Security life safety and property protection systems.

FireWorks provides a simple user interface, taking what could be an overwhelmingly large amount of information and presenting it in an easy-to-understand format. FireWorks does this by dividing major system functions into easy-to-manage quadrants. These quadrants make the system very intuitive to use because information is presented logically.

FireWorks is event driven. This greatly increases the user's ability to deal with system events by eliminating the confusion sometimes experienced when systems present all information at once. FireWorks automatically prioritizes the events for the user in an *Event Quadrant*. Here the highest priority event is displayed first, and the lowest priority event is displayed last. This allows the user to quickly determine which events warrant the most immediate attention.

Each of the other three supporting quadrants provide one specific piece of information that relates to the event highlighted in the Event Quadrant. Related information may include event action information (specific tasks the user may need to perform in response to the event), or information about the area where the event has taken place (any hazardous materials present in the area, etc.). Access control card holder information, still images, CCTV, video, audio messages and graphical maps may also be presented to aid in the understanding of an event and how it should be managed.

FireWorks

Graphical Command Interface Features and Operation

For detailed hardware ordering information, specifications, and compatible CCTV equipment please see catalog sheet 85006-0048.



Standard Features

- **Listed for fire, security and access control**
- **Event-driven four quadrant display**
Automatic prioritization of events simplifies the system for the user.
- **Software-only versions**
Where UL listings are not required, FireWorks software allows the use of less expensive PCs for monitoring-only functions, while providing a full-featured graphic display.
- **Interactive life safety control**
- **Monitor and control for single or multi-line fire networks**
- **E-mail events to multiple recipients**
- **Display access control card holder information**
- **Password-defined user access**
- **Context-sensitive event action messages**
Provides event-specific instructional text.
- **Use native graphic formats to create event maps**
Import dxf, rle, tif, dwg, or wmf file formats.

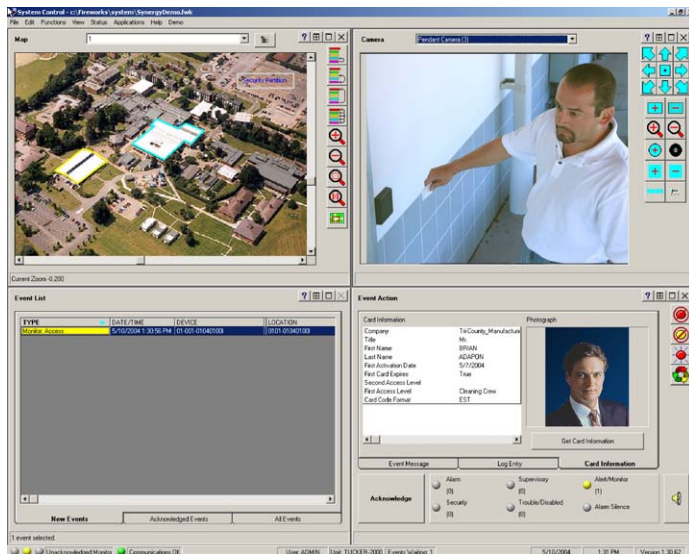


Application

FireWorks is ideal for any system that gathers information from many points in a building. FireWorks allows the interface of compatible fire alarm control systems to one or several workstations. This permits monitoring and control of multiple areas or buildings from a single point of system access.

Operation

During normal operation the FireWorks screen displays the quiescent state of four quadrants: the Event List; Event Action; Real-time Image; and, Map Display.



Event Action Quadrant showing access cardholder information

The *Event List Quadrant* (lower-left quadrant) displays new events in order of priority. The *Event Action Quadrant* (lower-right quadrant) can display custom message text. Custom message text helps the user understand any specific hazards present in the area where an event is taking place, or it could be used to help understand what procedures need to be followed for the specific type of event being reported by the system. Where access control is a part of the system the event action quadrant can show cardholder information as access events take place. The information displayed for cardholders is selected by the FireWorks system administrator and can include a photo, name address, phone number or any combination of available fields pertaining to the cardholder.

Common control switches for Alarm Silence, Panel Silence, Drill and Reset are also available in the Event Action quadrant. Also accessible from this quadrant are the Event Acknowledge button, the Computer Silence button, and the Event Log tab.

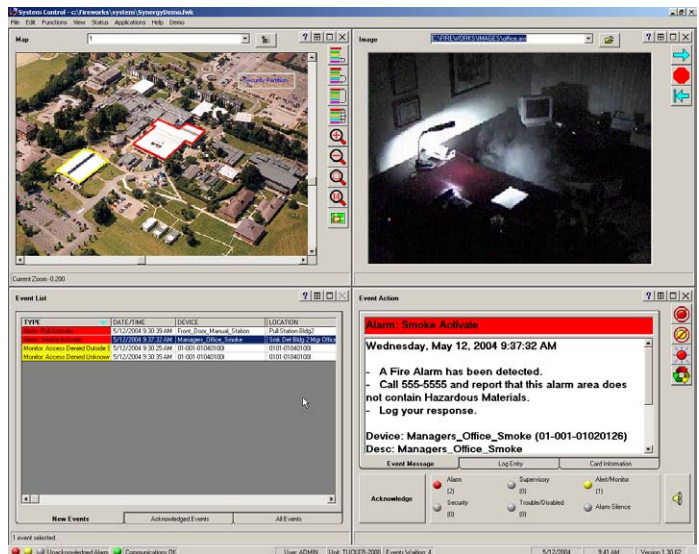
The *Image Quadrant* (upper-right quadrant) can display still graphic images, movie .AVI files or real-time CCTV images. The *Map Quadrant* (upper-left quadrant) contains smart map navigation and control switches, making branching through maps and zooming in on specific devices fast, simple, and efficient. The exclusive FireWorks Zoom Function allows the user to quickly retrieve very detailed information that may be present on a map, while the big picture remains in view, thanks to an automatically-generated interactive Keypad Display. Different systems conditions affect whether the graphic control switches are enabled or disabled.



Event List Quadrant

Upon receipt of an alarm condition the alarm event is displayed in the Event List Quadrant. If several events are received, all events are displayed in the Event List Quadrant and are color-coded by priority. The highest priority event is displayed at the top of the list. The lowest priority event is displayed at the bottom of the list. Alarm events display in red, Supervisory and Trouble events display in yellow, Restores annunciate in green.

FireWorks automatically selects the first event received. To display information on any other event, the user simply selects the event by clicking on it. The other three quadrants automatically change to display information on the selected event.

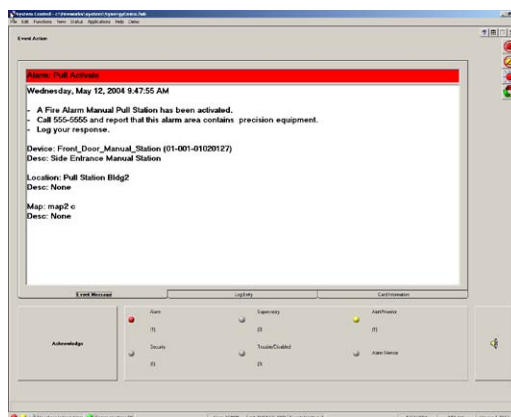


Alarm Event: Summary information is displayed in the Event List (lower-left), while more detailed text and graphics show in the other quadrants. The first alarm is selected by default.



Event Action Quadrant

The Event Action Quadrant displays any custom instructional text associated with the event. This text could include information about hazardous materials present at the location, or instructions for implementing the facility's emergency action plan. When access control is combined with the system, the Event Action Quadrant provides cardholder information under a dedicated tab.



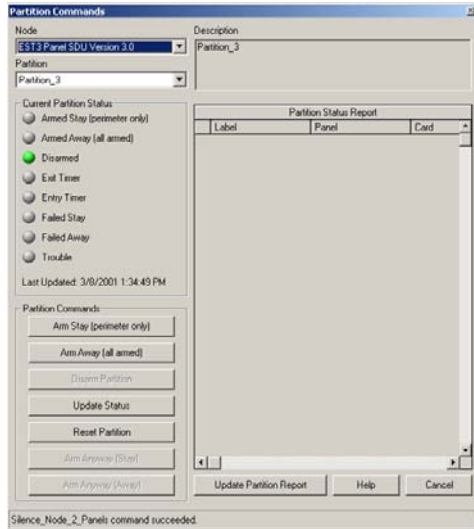
Event Action Quadrant: This screen is used to provide instructions on how to respond to the selected event, and also to acknowledge that these instructions have been carried out.

Acknowledgment of events is accomplished from the Event Action Quadrant. FireWorks supports the use of custom audio messaging through the use of .wav files. These audio messages are used to

Security Options

With EST3, Version 3.0 and higher, FireWorks seamlessly blends life safety, security and access control functions within its unique four-quadrant display. Events concerning all enabled functions display within the common interface and are managed using the same procedures. This ensures that control remains intuitive, regardless of the type of event or action.

FireWorks not only provides a common framework for control and monitoring, it also offers dedicated control for security functions. From within FireWorks, security partitions can be armed and disarmed, security partition reports can be generated, and entry/exit timers can be activated.



Security Partition Command Screen

Typical Wiring, Installation and Mounting

Please refer to GE Security catalog sheet number 85006-0048 for a complete listing of FireWorks hardware and software options.

Engineering Specification

The Graphic Workstation Functions shall display the address of the alarm or off-normal point with type and description and time of the event in a prioritized color-coded event list. Highlighting an event in the event list shall automatically cause the other three quadrants (described below) to display information relating to the highlighted event. The display shall Display color graphical representation of the area in which the alarm or off normal device is located. It shall be possible for the operator to manually zoom down to any portion of a vector-based graphic without aliasing, artifacting, or pixilation of the image. Preset zoom levels shall not be considered equal. There shall be a set of written operator instructions for each point. It shall be possible to display a <preset CCTV video> and/or <stored image of the device>. The operator must be able to Log comments for each event to history with time and date. The history must be accessible for future review.

Where the system includes access control functions, cardholder information shall be integrated into the workstation display. Cardholder information shall include, but not limited to, a photograph, cardholder name, card number, and address. It shall be possible for the system administrator to select which access control card fields shall be displayed on the workstation. It shall be possible to search and display cardholders by name or card number, and have information displayed on the workstation.

It must be possible to operate common control functions from the Workstation including acknowledging, silencing, and resetting of <fire alarm> <Security><Access Control> functions while maintaining <UL 864><ULC-S527> listing. It must be possible to manually activate, deactivate, <enable, and disable individual fire alarm points><, arm, disarm, enable, and disable individual security points.>< arm, disarm, enable, disable, open, unlock, close, and lock individual doors. Shall be capable of manually enabling and disabling card readers. Shall be capable of generating status reports for all card reader controllers.> The workstation shall be capable of generating status, maintenance and sensitivity reports for all <fire alarm><Security> components. The workstation must be capable upon receipt of a <fire alarm><Security Alarm> <Access Control Event> to activate an audio WAV file over the workstation speakers alerting the operator to an alarm<, and providing audible instructions.>

The workstation must be capable upon receipt of a <Fire Alarm>, <Security Alarm>, <Access Control Event>, <Monitor Event> to send e-mail messages to appropriate recipients via a SMTP mail server.

It must be possible to control Closed Circuit Television (CCTV) by <providing a video display on one quadrant of the workstation as received from the CCTV switcher-matrix><the workstation commanding the switcher matrix to a specific camera and CCTV monitor.> The workstation shall command the switcher-matrix to direct the appropriate camera to the preset azimuth and elevation for each event, and send this image to the <workstation><CCTV monitor>. Where the CCTV image is displayed on the workstation it shall provide manual pan, tilt, and zoom control signals to the switcher-matrix. The workstation must provide Maintenance and Control Functions that include Control capability, Reports, status, sensitivity. The workstation must provide an extended message per event, site programmability of the message must be provided allowing modification by the end user to suit occupancies and emergency plans.

The Workstation must provide simple control via a two button mouse <or touchscreen>.

Ordering Information

Catalog Number	Description
FW-CGSUL	Color Graphics Software supports text annunciation, graphics and reports. Must be run on UL-listed PC. Provides a full-featured Event driven four-quadrant graphic display. Supports EST3, EST2, IRC-3, and FCC systems.
FW-CGS	Color Graphics Software. Provides event driven four-quadrant graphic display. No common control. Use with IRC-3, ADT2000, and ADT3000 systems. Requires minimum 400 MHz Pentium class PC, Windows XP operating system, 256 Meg memory recommended, CD ROM drive.
SV	SiteVision - Allows use of existing CCTV monitors with control of CCTV (CCVE) system. No FireWorks on-screen control provided at Fire PC. Operates with FW-CGS** series software.
SV+	SiteVision+ Provides on Screen annunciation of CCTV at FireWorks PC. Allows control of cameras through CCTV matrix or multiplexer. Operates with FW-CGS** series software.

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