FireWorks

Graphical Command Interface Application and Operation

For detailed hardware and ordering information, please see Catalog Sheet 85006-0067.

Overview

FireWorks™ is a powerful family of software and hardware options that work in concert with Edwards Mass Notification/Emergency Communication (MNEC), Life Safety and Property Protection systems. FireWorks also provides the platform and processing power to integrate third-party systems with Edwards solutions to provide the user with clear, concise, and coordinated information.

FireWorks provides an intuitive 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 viewports.

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 Viewport*. 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 supporting viewports provides specific information and/or control options that relate data to the event highlighted in the Event Viewport. 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.). 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.

Standard Features

- **Listings include MNEC, Life Safety, Access Control, Central, Remote and Proprietary Station operation**

- **Event-driven configurable multiple viewport display**
  Automatic prioritization of events simplifies the system.

- **Software-only versions**
  For annunciation-only applications where agency listing/approvals are not required.

- **Interactive life safety control**

- **Monitor and control for single or multi-line Life Safety networks**

- **Email events to multiple recipients**

- **Web Client options allow for remote diagnostics, textual event and status viewing along with running reports**

- **Optionally view textual events and run reports remotely via an Internet, LAN or WAN connection**

- **Password-defined user access**

- **Context-sensitive event action messages**
  Provides event-specific instructional text.

- **Use native graphic formats to create event maps**
  Import most standard graphic formats, such as wmf, dwg.

- **Optional network solutions available**
  Listed, rugged networking solutions can be used for command/control, VoIP as well as annunciation.

- **Optional Digital Alarm Receiver Connectivity**
  Optional DACR and IP solutions for interfacing with Edwards and/or third-party fire/life safety and security panels.

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Application

FireWorks gathers, consolidates, disseminates, displays and controls systems and points throughout a facility or campus

Operation

Each operator can configure the system to have anywhere from 2 to 6 viewports. Viewport options are Map, Image, Event List, Event Action, Browser and CCTV.
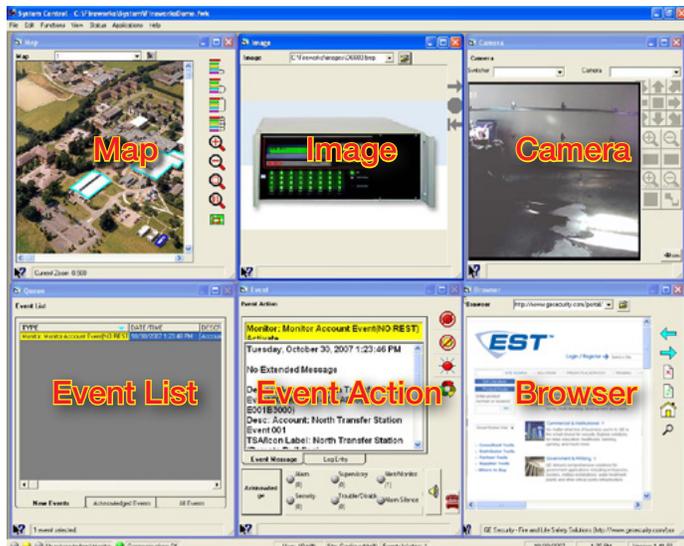
Event List Viewport

Upon receipt of a change of state, the event information is displayed in the Event List Viewport. If several events are received, all events are displayed in the Event List viewport 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 viewports automatically change to display information on the selected event.
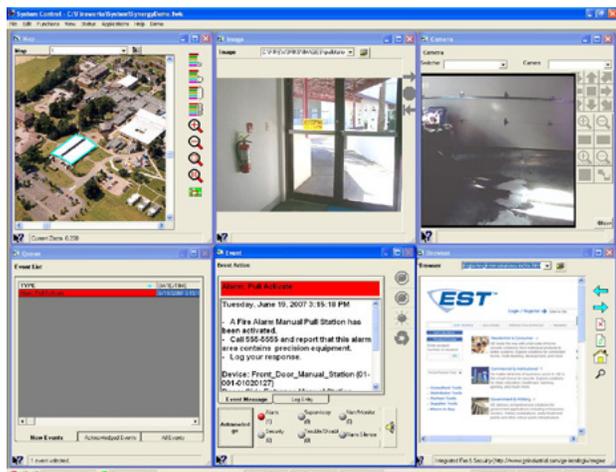
Alarm Event: Summary information is displayed in the Event List (lower-left), while more detailed text and graphics show in the other viewports. The first alarm is selected by default.

Event Action Viewport

The Event Action Viewport 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.

Common control switches for Alarm Silence, Panel Silence, Drill and Reset are also available in the Event Action viewport. Also accessible from this viewport are the Event Acknowledge button, the Computer Silence button, and the Event Log tab.
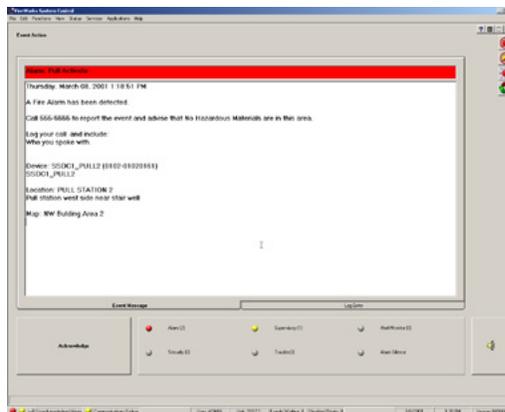
Event Action Viewport: This screen is used to provide instructions on how to respond to the selected event, and also to acknowledge that these instructions have been carried out.

Acknowledgment of events is accomplished from the Event Action Viewport. FireWorks supports the use of custom audio messaging through the use of .wav files. These audio messages are used to reinforce the action a user should take for a given situation. Audio messaging and the PC buzzer may be silenced by the user without affecting the connected life safety networks or panels. This unique feature of FireWorks allows the PC to be silenced without having to acknowledge events. The user only acknowledges each event when all response procedures have been carried out. Once acknowledged, the event moves from the Event List new messages tab to the Acknowledged Events tab.

By selecting the Log Entry Tab on the Event Action Viewport, the user can record the steps taken in response to the selected event. Event logs are attached to the history file for the event and are available for review when needed.
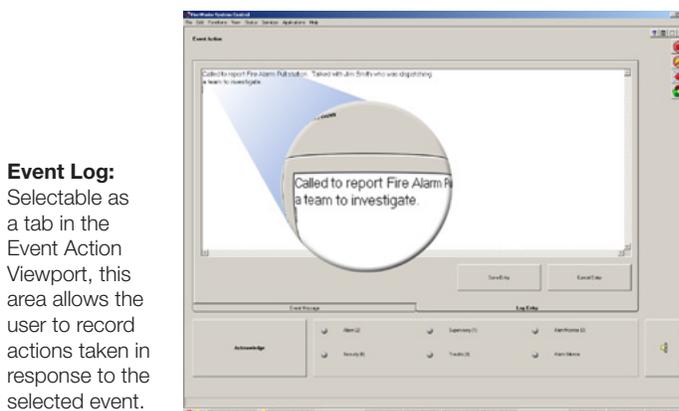
Event Log: Selectable as a tab in the Event Action Viewport, this area allows the user to record actions taken in response to the selected event.

Image Viewport

A picture says a thousand words. That's the idea behind the FireWorks Image Viewport. The Image Viewport has endless possibilities. Any event, any device, or any combination of devices and events can retrieve instant graphical information that is relevant to the occurrence and can be understood at a glance. The viewport can display still images of the active device with a brief description of its function. It can show what a gate valve looks like, or which model of smoke detector is in alarm, or what kind of motion detector is active.

Image Viewport: Displays images relevant to the occurrence.

Camera Viewport

With the SiteVision option, if the project has CCTV, live video can be displayed, giving the operator a real-time view of the area where the event is taking place. With the SiteVision Plus option, when cameras supporting pan/tilt and zoom are used, these functions can be controlled right from the FireWorks computer. There is no need to use a separate joystick to move the camera.

With FireWorks and CCTV, a user can view an area before going to it to investigate the event. This provides additional safety for the investigating employee by allowing the opportunity for a visual check that establishes the severity of an event before making a physical inspection. (See FireWorks compatible CCTV listings for a complete list of compatible CCTV manufacturers.)
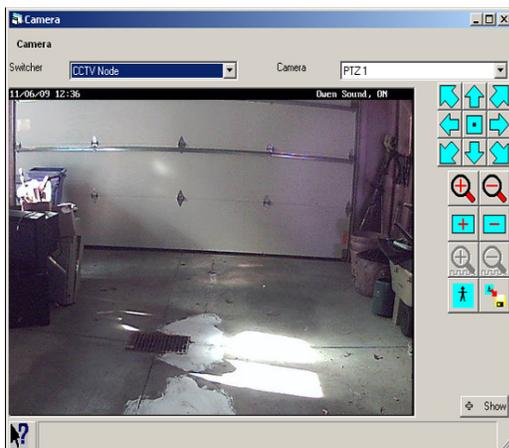
Map Viewport

This viewport provides a graphical display of the event's physical location. This viewport is customized to the layout of the facility. A site map may be displayed showing one or multiple buildings. This gives the user an overview of the event's location in the context of its surroundings and the entire facility.

Map Viewport: This gives the user an overview of the event's location in the context of its surroundings and the entire facility.

In this configuration an event will begin to flash the appropriate TSA (touch-sensitive area) or alarm area in red. TSAs for supervisory events display with a gold or yellow boarder (field selectable). Security events can display in orange. Trouble or monitor events in yellow. Restorations in green. This gives a clear indication of the event area of the alarm. The operator may then touch the flashing area to advance to the next screen providing a more detailed view of the area of incident. The operator may also choose to go directly to the device in alarm.

From within the Map Viewport the operator may, if given authority through Fireworks password protection, enable or disable devices, retrieve device sensitivity, or modify specific extended message text for any device. The Enable /Disable devices option is useful when a device needs to be removed from the system because, for example, construction work in an area may create an unwanted alarm. Any disabled devices put the fire panel in trouble and annunciate on the FireWorks PC. This ensures the operator understands that the system is not fully operational.

The Sensitivity option allows the operator to access sensitivity reports on specific devices. The Extended Message option gives the operator the ability to modify the text displayed in the Event Message Viewport. This is useful for keeping emergency plan information updated and for helping ensure instructional text is kept current when building occupancy changes.

In addition to the FireWorks simplified event driven operator interface that brings unparalleled ease of operation, FireWorks continues the ease of operation design with report functionality that allows the system administrator or other user with the proper authority to retrieve panel reports. Reports include Panel Status, Disabled Points and Sensitivity. Meanwhile, a full history report generator allows the review of historical panel events.

To enhance off-premise notification, FireWorks supports connection to a Simple Mail Transfer Protocol (SMTP) mail server, allowing event information to be e-mailed. This provides the ability to get event information automatically, efficiently and inexpensively to the people who need to know about events in your facilities.

Browser Viewport

Have internet/intranet information displayed automatically or on demand. Requires internet/network connection. The Browser Viewport can be configured to automatically connect to emergency information sites, network accessible building automation and other 3rd party systems

Web Clients

FireWorks automatically conveys new events to any logged-in web client so that they are always in touch with current system status from a remote location in real time. Events mirror the display on the host system and are color-coded for easy identification by type and source. Events may also be filtered at the Web Client and sound files can be added per alarm, supervisory, trouble or monitor event catagory.

Any number of remote web clients can be deployed by FireWorks. The number of concurrent connections possible is determined by the FireWorks model. The web client can also run reports for the remote workstation and print them to a local printer or output them to a .csv file.

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 viewports (described below) to display information relating to the highlighted event. The system LCD 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.

It must be possible to operate common control functions from the Workstation including acknowledging, silencing, and resetting of fire alarm functions while maintaining UL listings. It must be possible to manually activate, deactivate, enable, and disable individual fire alarm points. The workstation shall be capable of generating status, maintenance and sensitivity reports for all fire alarm components. The workstation must be capable upon receipt of a fire alarm 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 <Mass Notification/Emergency Communication>, <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 viewport 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.

It shall be possible via a compatible remote PC connection through an accessible connection to a VPN, LAN, or WAN to obtain status, diagnostics, and reports from the workstations. The graphics work station shall act as a server to simultaneously communicate the status of all systems connected to the graphics work station to up to fifteen (15) concurrent remote PCs running graphics client software over the owner's data network or VPN. Clint software shall actively poll the graphic work station server to determine event status. All event changes shall be automatically announced on the client PC. No operator interaction shall be required to retrieve or display incoming events. Web browser technology shall not be considered as equal. All workstation to client communications shall be encrypted for privacy. It shall be possible to capture at the remote PC events that take place on the workstation. It shall be possible from the remote PC to run workstation and panel reports.

The workstation shall be capable of communicating through one or multiple digital alarm receivers to display events from any panel that supports Contact ID or 4/2 industry standard protocols.

The workstation shall provide the ability to schedule the automatic running of reports. Reports shall be capable of being scheduled daily, weekly or monthly. Scheduled reports shall be automatically stored electronically for easy retrieval.

The Workstation shall provide for simple control via a computer mouse, touchscreen and keyboard commands.

Ordering Information

See Data Sheet 85006-0048 for hardware ordering information.

Catalog Number	Description
FW-CGSUL	Base command/control FireWorks software package. For use on a UL/ULC fire listed computer for listed installations.
FW-CGS	Base annunciation only FireWorks software package. No command/control operations. See Note 1.
SV	Optional SiteVision software package pin code without camera control. Must be used with optional FW-VIDTC video card.
SV+	Optional SiteVision Plus software package pin code with camera control. Must be used with optional FW-VIDTC video card.
FW-1S	Optional 1st Web Client pin code. Allows for 1 active Web Client user.
FW-4S	Optional additional 4 Web Client pin code. Must be added to a FW-1S. Provides for a total of 5 concurrent Web Client users.
FW-10S	Optional additional 10 Web Client pin code. Must be added to a FW-1S AND FW-4S. Provides for a total of 15 concurrent Web Client users.
FW-DARCOM	Optional Digital Alarm Receiver Communication software package pin code. Supports 1 (for listed) to 8 (for ancillary, non-automation application) DACRs. Also supports FW-IPMON1000.
FW-IPMON1000	Optional IP (DACR not required) monitoring for up to 1,000 Edwards iO Series systems. Must have FW-DARCOM software package enabled.

Note 1: Minimum system requirements for non-UL fire listed clone computers: Intel Core i5 3.2 GHz Dual Core Processor 650 with 4 MB cache or better processor, minimum 800 MHz front side data bus, minimum 2 GB system RAM (4 GB recommended), 256 MB dedicated video RAM, DVD drive, Windows XP Pro with SP3 Operating System, Ethernet and/or RS-232 bidirectional communication port for panel connection. Plus: 250 GB hard drive, USB 2.0 ports, 1280 x 1024 16-bit color display, and Windows XP Pro with SP3 operating system.

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Not to be used for installation purposes. **Issue 6**

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