

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, web pages, and graphical maps may also be presented to aid in the understanding of an event and how it should be managed.

Standard Features

- **UL 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**
- **Optional Internet Connectivity**
Provides remote monitoring of FireWorks status.
Provides ability to run reports.
- **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.
- **Optional Digital Alarm Receiver Connectivity**
Provides the ability to monitor and display events from fire and security panels of different manufactures at a common location.

FireWorks

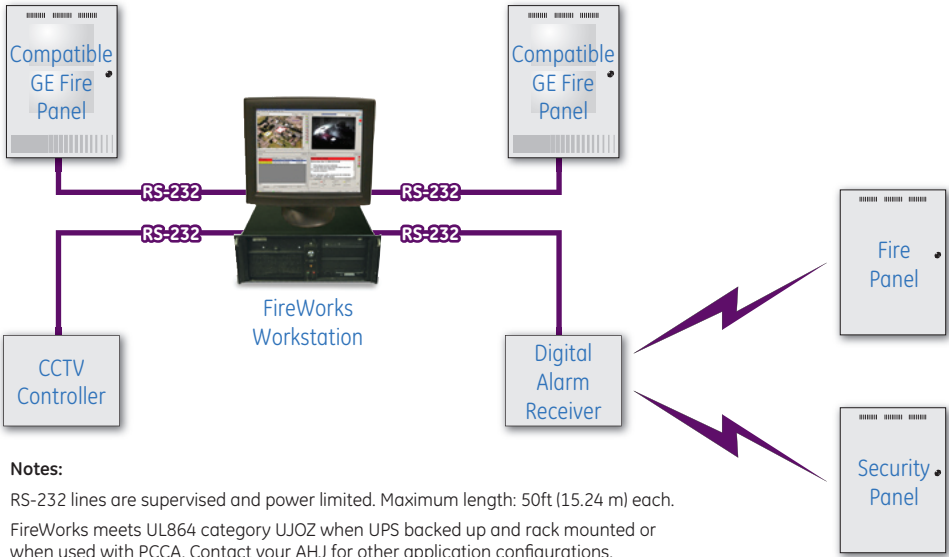
Graphical Command Interface

Specifications & Ordering Information

For detailed application and operation information please see Data Sheet 85006-0047.



Typical Wiring



Extending Workstation to Control Panel Distances



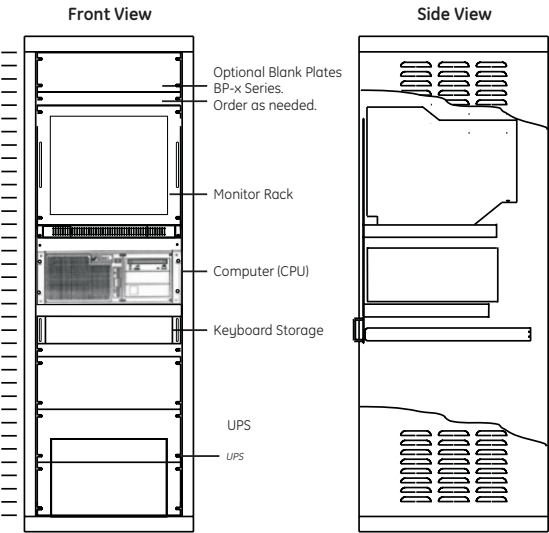
Notes:
RS-232: lines are supervised and power limited. Maximum length: 50ft (15.24 m) each.
Fiber: Two 62.5/1.25 cable. 10 dB maximum loss.
FireWorks meets UL864 category UJOZ when UPS backed up and rack mounted or when used with PCCA. Contact your AHJ for other application configurations.

Installation and Mounting

FireWorks meets UL requirements when desk, floor or rack mounted. For floor and desk mounting a PCCA (supplied) must be used for conduit connection of PC to junction box. The FireWorks workstation must be UPS backed. Uninterruptible Power supplies (UPS) meeting UL1481 – “Power Supplies for Fire Protective Signaling Systems” and UL 864 category UTRZ are available through La Marche MFG Co. 106 Bradrock Dr. Des Plaines IL. 60018 Phone (847) 299-1188.

Rack Mounting

(Does not necessarily depict a complete system.
Specific application may have additional requirements.)



RKU-61-24 Dimensions 22 3/8" W X 65 9/16" H X 25" D

Specifications

FireWorks CPU (FW4UL4)	
Computer Type	Industrial Grade 3.2 GHz Pentium 4 Processor, 800 MHz front side bus.
Harddrive	120 GB
Dimensions	17 w x 19.6 d x 7 h (432 mm x 498 mm x 177 mm)
Weight	44 lbs. (20.0 kg) - Actual Weight depends on the installed options.
Keyboard and mouse	Standard 101 key, black; Black two button PS2 mouse
Power Supply	350 Watts voltage range selected automatically. Acceptable inputs are: 100 - 127 (nominal) Vac; 50/60 Hz; 8 Amps max. 200 - 240 (nominal) Vac; 50/60 Hz; 4 Amps max.
RAM	512 MB standard
Operating System	Windows XP Pro
Fire Systems Monitored/Controlled	EST3 or EST2, IRC-3, FCC
Communication format	RS-232 (Workstation to Life Safety System)
Log text	65000 characters per event Max.
Graphic Zoom fields	Unlimited (32 max recommended)
History archive	Subject to hard drive space (budget 2 meg per 10,000 events)
Operator Log/On Log/Off	Three-security control access levels. Complete customization of user access attributes by password
Operating Temperature	0° to 49° C (32° to 120° F)
Relative Humidity	5% to 95% non-condensing
Diskette Drive	1.44 MB
CD-R/RW Drive	Speed: 52 x write; 32 x rewrite; 52 x read
Mounting	Desktop or floor mounting or Rack/Panel mount in 19" RKU series. Use RKU-61-24 when rack mounting with monitor
Approvals	UL, ULC (see Note 1).
Network Controller	IEEE 802.3 10Base-T and 100Base-TX compatible
I/O Parallel Port	25-pin D Type Four ports (expandable to eight ports)
Serial Ports	9-pin D Type Two dual-stacked USB rear connectors
USB Available expansion slots	Four PCI slots, one PCI express slot

Note 1:

FireWorks is modularly listed under the following standards: UL 864 categories: UOJZ, UOXX, UL 294 category ALVY, UL 636 category ANET, UL 1076 category APOU, UL 365 category APAW, UL 1610 category AMCX, ULC-S527. Please refer to FireWorks Installation and Service Manual for complete system requirements.

Note 2:

Supported CCTV Systems: Pelco Matrix Systems: CM6700 series, 8500, 9500. Philips: LTC8100, 8200, 8300, 8500, 8600, 8800, 8900 series. Vicom: Nova V142. Kalatel: KTD-348.

Note 3:

Compatible digital alarm receivers include Osborne Hoffman model OH2000E, Radionics model D6600, Sur-Gard model SG-SLR.

Monitors – 19" black (Liquid Crystal Display) (FW-19LCDTS)	
Dimensions	16.5" W x 16.8" H x 7.9" D (418 x 427.8 x 200 mm) including mounting stand
Diagonal Viewing area	19"
Weight	Display 14.3 lb (6.5 kg) approx. Carton as shipped 30.6 lb (13.9 kg) approx.
Power	Internal Power Supply, 100 - 240 Vac; 50-60 Hz; 0.8 - 0.5A / 100-240V
Screen Resolution	1280 x 1024 VGA
Speakers	Two built-in speakers in display head.
Mounting	Desktop mount or rack/panel mount in 19" RKU series.
Environment	0 to 49° C (32 to 120° F) 5 to 93% RH, noncondensing
Touch Screen	Capacitive w/USB Controller
Brightness	230 cd/m² typical
Approvals	UL, ULC, see Note 1.

Software Options

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 IRC-3, EST2, FCC, and EST3 systems.
FW-CGS	Allows Text annunciation with graphics. Provides event driven four-quadrant graphic display. No common control. Use with IRC-3, EST2, FCC, and EST3 systems. (Requires minimum 2.0 GHz Pentium class PC, Windows 2000 or XP Pro operating system, 512 Meg memory recommended, CD ROM drive, RS-232 serial ports.
SV	SiteVision - Allows use of existing CCTV monitors with control of CCTV system. No on-screen control provided at FireWorks PC. Operates with FW-CGS (UL) series software. Supported CCTV systems: See Note 2.
SV+	SiteVision+ Provides on Screen annunciation of CCTV at FireWorks PC. Allows control of cameras through CCTV matrix or multiplexer. Operates with FW-CGS (UL) series software. Supported CCTV Systems: See Note 2. FW-VIDTVC required, order separately.
FW-1S	One seat Web client.
FW-4S	Used in conjunction with FW-1S provide 4 additional concurrent remote client seats for a total of 5 concurrent seats supported.
FW-DARCOM	Provides connectivity for 1 to 8 Digital Alarm Receivers

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T 519 376 2430
F 519 376 7258

Asia
T 852 2907 8108
F 852 2142 5063

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T 61 3 9259 4700
F 61 3 9259 4799

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F 32 2 721 86 13

Latin America
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Notes:

1. All FireWorks workstations come standard with mouse control.
2. FireWorks meets UL864 category UJOZ when rack mounted or when used with PCCA. The system must be UPS backed up. Approval by AHJ may be required for other applications.
3. One EIA panel space is 1.75" in height.
4. Uninterruptible Power supplies (UPS) meeting UL1481 – "Power Supplies for Fire Protective Signaling Systems" and UL 864 category UTRZ are available through La Marche MFG Co. 106 Bradrock Dr. Des Plaines IL. 60018 Phone (847) 299-1188. 6. Cutler-Hammer transient protection device (DCXD-06BNCY) required by UL if CCTV connection leaves room where FireWorks is located.

While every effort is taken to ensure that specifications accurately represent FireWorks workstations GE Security reserves the right to change FireWorks computer hardware and/or software specification without notice.

Ordering Information

Catalog Number	Description
Standalone Workstations	
FW4UL4	4 Port Workstation (See notes). 3.2 GHz Pentium 4, comes with Windows XP Pro, 3.5" floppy drive, CD-R/RW drive, 512 Meg memory, 120 Gig hard drive, four serial ports, one parallel port, two dual-stack USB rear connectors, 64Meg RAM on-board video, on-board sound card, and anti-virus software. Auto ranging 120/220 Vac 50/60 Hz power supply. Order monitor, mounting hardware, FireWorks Applications Software and optional internal boards separately.
Monitors	
FW-19LCDTS2	19" LCD Monitor with touch screen, Black, UL 864 / ULC S527 listed; rack mountable (order rack mount equipment separately)
Enclosures and Mounting Accessories	
RKU-61-24	19" Rack mount enclosure - 35 EIA panel Spaces available
FW-19LCDTS2RACK	Monitor Rack mount kit - 9 EIA spaces required. For FW-19LCDTS2 monitor.
FW-RACKPC	Computer Rack mount - Hardware - 4 EIA panel spaces required. Order FW-RACKSD slides separately
FW-RACKKB	Keyboard Rack mount kit - Black - 2 EIA panel spaces required.
FW-RACKSD	Rack mount slides for use with FW-RACK PC
BP1	Blank plate - One EIA panel Space (1.75" x 19") (See Note 3)
BP2	Blank plate - Two EIA panel Spaces (3.5" x 19") (See Note 3)
BP3	Blank plate - Three EIA panel Spaces (5.25" x 19") (See Note 3)
MFC-A	Accessory Enclosure for mounting Mini-Mux at FireWorks workstation
Option cards	
FW-SP4I	Serial Port for UL/ULC listed FW4UL4 workstation. Provides four additional serial ports.
FW-VIDTVC	Card for UL/ULC listed systems. Required when using SV+ software with FW4UL4. (See Note 6)
FW-MOD	Modem for UL/ULC listed systems - 56K baud V.90
FW-SND	Sound Card for UL/ULC listed systems (use with FW2 or FW4)
FW-SNDSP	Computer Speakers Black
Optional Accessories	
Mini-Mux	Communication Interface Board - UL listed for extending FireWorks to Fire Panel Communications.
FCOM-FIB	Fiber Optic data line card used with Mini-Mux
FW-XPC1	RS-232 extender. Allows FireWorks with no common controls to communicate to Fire Panels over copper connection up to 3 miles. Works in conjunction with FW-XPL1 ordered separately
FW-XPL1	RS-232 extender. Allows Fire Panel (EST3, EST2, IRC-3, and FCC) to communicate with FireWorks with no common controls over copper connection up to 3 miles. Mounts in 1/2 foot print space in control panel.



imagination at work