

FireWorks

Graphical Command Interface Hardware and Ordering Information

For detailed application and operation information please see Data Sheet 85006-0049.

42" Wall Mount
Monitor



22" Desktop
Monitor



Overview

FireWorks is a family of software and hardware options that work in concert with Edwards Mass Notification/Emergency Communication (MNEC), Life Safety and Property Protection systems.

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. These viewports make the system intuitive to use because information is presented logically.

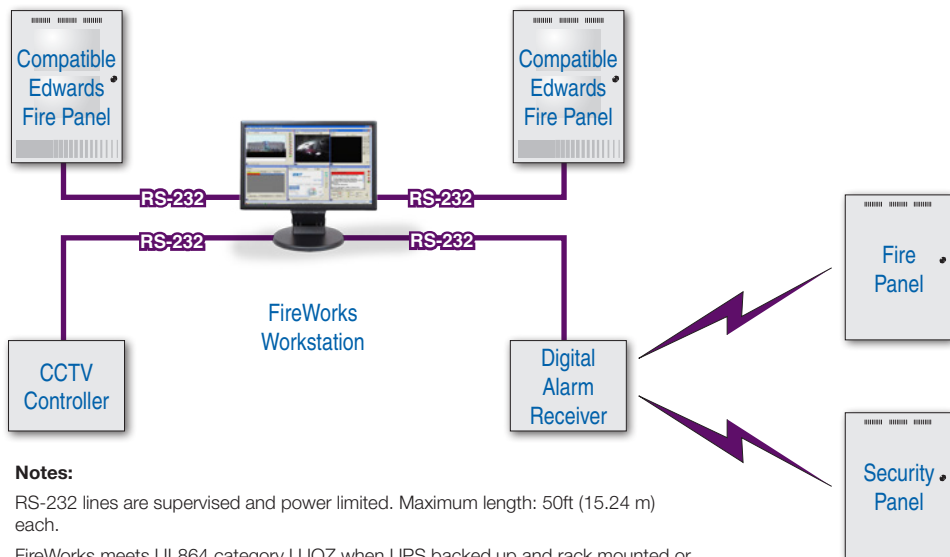
FireWorks is event driven. This greatly increases the user's ability to deal with system events by eliminating the confusion sometimes experienced when systems present all information at once. FireWorks automatically prioritizes the events for the user in an *Event Viewport*. Here the highest priority 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 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.). Access control card holder information, 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 MNEC, fire and security**
- **Event-driven configurable multiple viewport 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 Life Safety 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 most standard graphic formats, such as wmf, dwg and more.
- **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

Typical Wiring

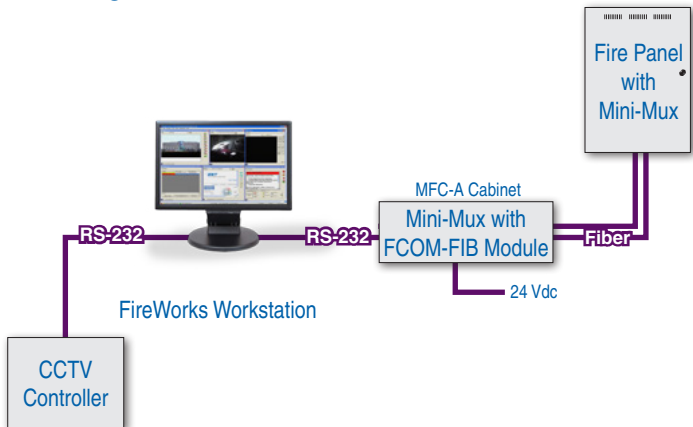


Notes:

RS-232 lines are supervised and power limited. Maximum length: 50ft (15.24 m) each.

FireWorks meets UL864 category UJOZ when UPS backed up and rack mounted or when used with PCCA5. Contact your AHJ for other application configurations.

Extending Workstation to Control Panel Distances



Notes:

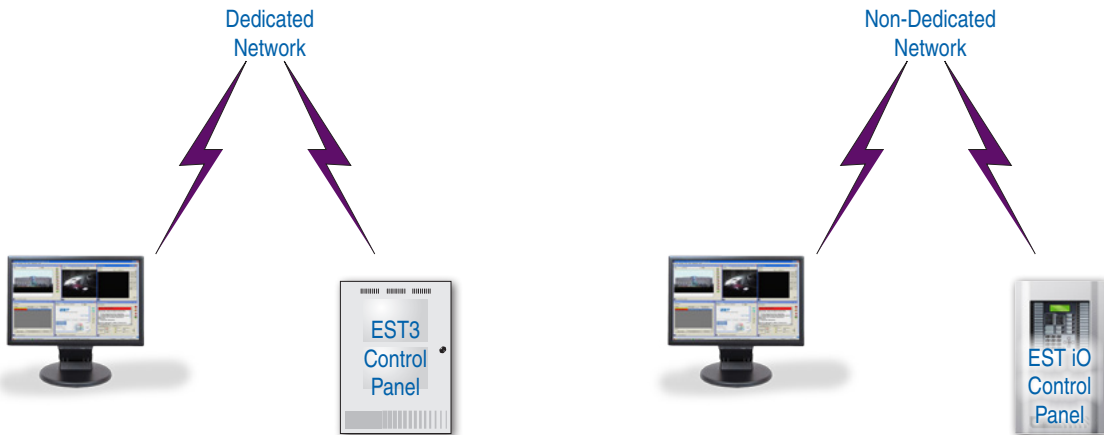
RS-232: lines are supervised and power limited. Maximum length: 50ft (15.24 m) each.

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 PCCA5. 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 On-Line Power at 1-800-227-8899 or La Marche MFG Co. at 847-299-1188.



Note: FireWorks meets UL864 category UJOZ when UPS backed up and rack mounted or when used with PCCA5. Contact your AHJ for other application configurations.

Specifications

FireWorks CPU (FWUL5 and FWUL5RAID)

Computer Type	Industrial Grade Dual Core 3.0 GHz Intel processor, 800MHz front side bus.
Harddrive	500 GB
Dimensions	17" w x 22.5" d x 7" h (432 mm x 572 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; 6 Amps max. 200 - 240 (nominal) Vac; 50/60 Hz; 3 Amps max. PC comes with conduit adapter for AC connection when desk or Tower mounting.
RAM	2 GB standard
Operating System	Windows XP Pro
Fire Systems Monitored/Controlled	EST3 or EST2 (non-networked) iO Series, IRC-3, FCC
Communication format	RS-232 and/or TCP/IP connections to systems.
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
Optical Drive	DVD-RW
Mounting	Desktop or floor mounting or Rack/Panel mount in 19" RKU series. Use RKU-61-24 when rack mounting.
Approvals	UL, ULC (see Note 1).
USB Ports	Eight USB ports: two on front, six on rear.
PCI Expansion Slots	Four PCI slots, one PCI express slot.
Serial Ports	Order FW-SP4i separately to obtain four serial ports (occupies one PCI slot).
Network Interface	Order FW-NIC for Ethernet 100Base-TX connections (occupies one PCI slot).
RAID 1 hard drive array	Specify FWUL5RAID computer for standard features plus RAID 1 mirrored hard drive array.

Monitors – 19" black (Liquid Crystal Display) (FW-19LCDWTS)

Dimensions (W x H x D)	17.4 x 15.6 x 8.0 in. (441.96 x 396.24 x 203.2 mm)
Diagonal Viewing area	19"
Weight	15 lbs. (6.8 kg) with touch screen and base
Power	120 VAC, 1.5 A, 60 Hz, 180 W max.
Screen Resolution	1280 x 1024 VGA
Speakers	Two built-in speakers in display head.
Mounting	Use FW-19LCDWRACK rack mount kit

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 and UL 2572. 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.

Environment	0 to 49° C (32 to 120° F) 5 to 93% RH, noncondensing
Touch Screen	Capacitive w/USB Controller
Brightness	230 cd/m ² typical
Approvals	UL, ULC, see Note 1.

Monitors – 22" black (Liquid Crystal Display) (FW-22LCDWTS)

Dimensions (W x H x D)	20.2 x 15.9 x 8.7 in. (513.08 x 403.86 x 221.8 mm)
Diagonal Viewing area	
Weight	16.5 lbs. (7.48 kg) with touch screen and base
Power	120 VAC, 1.5 A, 60 Hz, 180 W max.
Screen Resolution	1680 x 1050 WSXGA
Speakers	Two built in Speakers
Mounting	Desk mount
Environment	0 to 49° C (32 to 120° F) 5 to 93% RH, noncondensing
Touch Screen	Capacitive w/USB Controller
Brightness	300 cd/m ² typical (depending on panel spec)
Approvals	UL, ULC, see Note 1

Monitors – 42" black (Liquid Crystal Display) (FW-42LCDWTS)

Dimensions (W x H x D)	41.3 x 25.2 x 5.0 in. (1049 x 640 x 127 mm)
Diagonal Viewing area	
Weight	70 lbs. (32 kg)
Power	120 VAC, 1.97 A, 60 Hz, 236 W max.
Screen Resolution	1920 x 1080
Speakers	N/A
Mounting	Wall mount. Order kits separately.
Environment	0 to 49° C (32 to 120° F) 5 to 93% RH, noncondensing
Touch Screen	capacitive touch screen
Brightness	500 cd/m ² typical
Approvals	UL, ULC, see Note 1
Cables	Comes with 15ft VGA cable, 15 ft power cable, and 15 ft USB cable.

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 six-viewport graphic display. Supports IRC-3, EST2, FCC, and EST3 systems.
FW-CGS	Allows Text annunciation with graphics. Provides event driven six-viewport graphic display. No common control. Use with IRC-3, EST2, FCC, and EST3 systems. (Requires minimum 2.0 GHz Pentium class PC 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-10S	Used in conjunction with FW-1S and FW-4S to provide a total of 15 concurrent remote client seats.
FW-DARCOM	Provides connectivity for 1 to 8 Digital Alarm Receivers
FW-IPMON1000	IP Monitoring for 1000 connections to iO series panels. Requires companion software option FW-DARCOM.



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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.

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

Ordering Information

Standalone Workstations

FWUL5	Workstation (see notes) Dual Core 3.0 GHz processor comes with Windows XP Pro, DVR-RW, 2 Gig RAM memory, 500 Gig Hard drive, one parallel port, on board sound card, on board video, 8 USB ports, auto-ranging 120/220Vac 50/60 Hz power supply. Order serial interface card or network interface card, monitor, mounting hardware, Fireworks Application software and other optional cards separately.
FWUL5RAID	Same as FWUL5 but with a 500 Gig RAID Hard drive array configured as RAID 1 for redundant drive mirroring.

Optional Components

FW-SP4I	Serial Port for UL/ULC listed FWUL5 or FWUL5RAID workstations. Provides four serial ports. Occupies one PCI slot.
FW-NIC	UL/ULC Listed Ethernet 100Base-TX Network Interface Card.
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-HD5	Replacement hard drive for FWUL5 computer.
FW-HD5RAID	Replacement hard drive for FWUL5RAID computer.
FW-NCCA5	Network conduit adapter. Provides connection to FW-NIC for Ethernet conduit.

Monitors

FW-19LCDWTS	Rack mount UL/ULC 19" LCD, 1680 X 1050, capacitive TS order FW-19LCDWRACK Rack mount kit separately.
FW-22LCDWTS	UL/ULC Listed 22" 16:9 LCD, 115 Vac, 1680 X 1050 resolution, capacitive touchscreen, with integral speakers. C/W desk stand, cable set, driver disk.
FW-42LCDWTS	UL/ULC Listed 42" 16:9 LCD, 115 Vac, 1920x1080 resolution, surface acoustic wave (SAW) touchscreen, with integral speakers. Comes cable set and driver disk. Requires wall mounting bracket kit ordered separately.

Enclosures and Mounting Accessories

RKU-61-24B	19" Rack mount enclosure black color- 35 EIA panel spaces available.
FW-19LCDWRACK	Rack mount kit for model FW-19LCDWTS monitor
FW-42LCDHMK1	42" wall mount bracket kit - single display, horizontal
FW-42LCDVMK1	42" wall mount bracket kit - single display, vertical
FW-42LCDVMK2	42" wall mount bracket kit - dual display, vertical
FW-RACKPCUL5	Computer rack mount kit - 4 EIA panel spaces required, C/W slides & handles.
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

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.
MN-COM1S	UL 864 FireWorks Communications Ethernet Port, Command & Control
FW-NCCA5	Ethernet cable conduit connector assembly for UL5 computer
MN-NETSW1	Ethernet Switch
MN-BRKT3	VoIP interface mounting bracket for APS-(6)(10)A power supplies
APS6A	6.5 Amp Auxiliary Power Supply
APS10A	10 Amp Auxiliary Power Supply