

PYROMATE

FIRING SYSTEMS

Your Complete Source for Advanced Firing Systems



NIGHT HAWK



The Most Technologically-Advanced Firing System on the Market Today...

...and there's nothing else like it. The NightHawk's Patented design includes a microprocessor that provides the ability to use as a manual panel or with many stages of automation, including full-blown pyromusical displays driven by time code, and may be programmed by either manual entry, by the user in the field, or by multiple types of software download options. This system is also designed to operate with any of PyroMate's connection modules, including the FM-45 Connection Modules, FM-12 Connection Modules, SmartFire SM-32 Modules and the SmartFire Wireless SM-32T Modules. This extreme flexibility allows the user to fire sophisticated pyromusical displays using manual modules at a fraction of the cost of digital modules. The user may also fire digital modules in a manual mode including Wireless. The NightHawk is extremely user-friendly and is a breeze to use and understand. The NightHawk is built with the same unsurpassed quality as all PyroMate products and is backed by a 2 Year Limited Warranty. The NightHawk is the system to fill all of your pyrotechnic needs.

A Second Generation Pyromate Firing System Loaded with New Features

- Integrated Expansion Module and Firing Panel
- Solid State Circuitry & Microprocessor
- Splash And Dust-Proof Switches
- Internal or External Power
- Continuous Module Memory
- High Voltage Firing Supply with Digital Voltage Indicator
- Elapsed Show Timer
- Two Color LED Circuit Status Indicators
- 540 Cue Capability
- 3128 Cues in Digital Mode
- Quick Change Module Selection
- Compatible with Existing FM-45 Connection Modules
- Programmable Sequential Firing
- Prompted Fire Mode
- Step Fire Mode
- Timed Fire Mode
- Strings Fire Mode
- Expandable To Include Programmed Firing
- Upgradeable to accept SmartFire Downloads
- Upgradeable to Work with SmartFire Digital Modules and SmartFire Wireless Modules
- Same Rugged Underwater Cases as All Pyromate Systems
- Bayonet Mount Work Light
- Limited 2 Year Warranty



The Most-Powerful, User-Friendly, Computerized Digital Firing System... Bar None!

Digital



The *New Digital SmartHawk*, based on the popular analog workhorse, NightHawk, is the Flagship of the pyrotechnic industry. It has more features, more flexibility, more firing modes and more show memory than all other systems combined. The *New Digital SmartHawk* has all of the features of the NightHawk (see page 5 in the PyroMate Catalog), with all of the flexibility of digital operation and the largest memory tables available on any system on the market. The *New Digital SmartHawk* works in all modes of manual or automated firing, with or without time code, and uses any combination of hard-wired or wireless Smart Modules.

Additional features include:

- Connects to 99 32-cue SM-32 and 100 SM-45 modules (199 module capacity, 7,668 cues)
- Three separate show memory tables of 3,500 cues each
- Uses XLR cable, wireless, or limited 2-wire connectivity
- Unlimited firing distances
- Manual, Step, Timed, Prompted, and FSK Sync fire modes
- Accepts downloads from any scripting software via NiteTime Conversion Software
- Digital conversion available for existing FM-45 Modules
- One millisecond firing resolution
- Fires multiple cues on multiple modules simultaneously in any mode
- LCD Display shows Status and Voltage of each module
- Wireless Modules have in-range LED and are powered on and off by transmitter

Choose Your Digital Weapon

All 45 Cue Digital smart Modules were designed specifically for use with the Digital SmartHawk and will also work with the SmartFire System. All are available in both hard wire and wireless models. Modules are constructed with the latest solid state technology and are extremely energy efficient.



FM-45 Digital

May be purchased complete or as Conversion upgrades to existing FM45 Modules



SM-45 Hybrid

Low Profile Module with Mini Pyro Clips for Proximate or regular use



SM-16 Hybrid



Active Splitter

Wireless!

Wireless Modules are the same technology as the SmartFire Wireless Modules and are fully compatible with them as well. They can also be used along side hard wired modules. Features include: Spread Spectrum frequency with 1 mile range; In-Range status LED; Auto Power up and down with transmitter



FM-45 Digital Wireless



Nighthawk Wireless Transmitter



SM-45 Hybrid Wireless

PYROMATE INC.

Meet the Little Brother of the Digital Nighthawk!

The Digital P-45 Firing System is the Little Brother of the Digital Nighthawk the Flagship of the pyrotechnics industry. It boasts cutting edge technology and features that are unavailable in any other firing system made by any company and is as well the most powerful and user friendly system of all others. It is an extremely flexible manual system to meet the needs of massively varying displays, without all the bells and whistles of its big brother.

This system lets you select and fire Digital modules manually, by standard selection or by 14 preset module groups that allow simultaneous multiple module firing, with the added capacity and flexibility of Digital operation and the Largest Cue Capacity available on any system on the market, this panel is no lightweight!!



But the real innovative technology is the ability to fire up to 7,668 cues using any of 199 addressable Digital SM 32T Smartfire or Digital FM-45 modules, in Wired or Wireless configurations!

The Panel is available with Internal wireless card or will work with external transmitter.

Now you can get a manual digital wired or wireless system without having to pay for features that you do not need!

This system is even flexible enough to allow for use as a manual panel for those with Smartfire systems that want to fire manual shows without their laptop, It also serves as an inexpensive backup panel to Smartfire or Digital Nighthawk.

Features

- 45 Booted, Waterproof switches and 199 distribution channels for simple manual firing of up to 7,668 cues
- Tri Color LED's for Status of Continuity and Firing progress
- Firing is accomplished without an attached computer to greatly improve reliability
- Can be used in a wired digital, wireless digital, or hybrid setup
- Compatible with SM-32T Smartfire, Digital FM-45 and SM-45 hybrid wireless or wired modules
- Up to 14 programmable rail groups for manual firing
- Up to 199 digital firing modules, each with 32 or 45 fully addressable cues, up to 7,668 cues per show
- Self contained rechargeable battery power system with SmartCharge
- Rugged design from cases, to connectors, to wires can handle the harsh environment expected at a display
- Exact simultaneous firing of multiple cues in different modules
- Unlimited firing distance
- LCD screen for, positive communication, power and system state
- RS485 Reliable Data Protocol used to communicate with components
- Industrial ABS weatherproof case
- Flexible neck work light inside case
- Optional Integrated Wireless transmitter
- Uses 4 Pin XLR or Limited 2 wire cabling



Compatible with wired or wireless SM-32T Smartfire, Digital FM-45 and SM-45 Hybrid Modules

FSK Wireless Timecode Modem for PyroMusicals



The Pyromate Wireless Modem receives an audio line level signal encoded with FSK Time Code information and converts it to RS232 serial output, transmits it to a Connexlink receiver for use by the NightHawk, SmartHawk and SmartFire to sync the controller with music source.

It also transmits the same information to other systems requiring time code to a second Modem unit that is set as a receiver.

Features

- Up to 5 Mile Range
- Allows Unlimited NightHawk and SmartFire Systems to sync the show to music with embedded timecode
- Connects directly to Sound source and transmits to multiple receivers.
- Timecode enters via RCA jack
- Link LED shows presence of carrier signal
- Receive Data LED allows you to quickly determine if you are receiving timecode effectively.
- Power is controlled via switch with LED
- Powered via 12 volt battery or 120v AC adapter

Specifications

- 1 watt 900 MHz Spread spectrum
- Transmit/Receive capability
- 12 volt input
- 1200 baud handles multiple FSK time codes



SmartFire[®] BY PYROMATE^{INC.} FIRING SYSTEMS

The SmartFire[®] Computerized Firing system has been designed by PyroMate to bring computer firing to new levels—simple, adaptable and affordable. In addition to being compatible with existing PyroMate equipment, the SmartFire System has many features that make it very desirable in today's market.



SmartFire[®] Features

- Laptop-driven firing system
- Fully addressable 32 cue Smart modules
- Solid-state 32 bit design
- Battery powered (rechargeable)
- Unlimited firing distance
- Fires up to 3,168 lines
- Up to 99 firing modules
- FSK & SMPTE Time code operation
- Rugged XLR cables
- Waterproof cases
- Complete on-screen diagnostics
- Tests in Safe or Arm mode
- Manual arming switch
- Program arming switch
- Digital communication
- Deadman switch stops program and music, and resumes in full sync
- Start, stop and resume at any time without losing sync
- Links directly to PyroMate FM-45 Modules

From the makers of the worlds most trusted, reliable and popular manual firing system, PyroMate is pleased to announce the Smart System which consists of SmartShow® choreography software and the SmartFire® Computerized Firing system. SmartShow® Scripting program allows you to choreograph shows of any size with extreme ease, accuracy and reliability. SmartShow® was designed for professionals with the technician in mind. It is very easy to use and understand and also very affordable. It has all the features needed to compete in today's computer fire market and is very versatile, script shows in a minimal amount of time with a level of comfort that is unsurpassed.

SmartShow® Features

- Windows based state-of-the-art 32 bit operating system
- Uses wave file with scrolling graphic display
- Point and click format
- Master effects file import/export from standard spreadsheets
- Fires multiple lines on same cue
- Sort on all fields
- Split screen for easy shell insertion
- Auto address feature
- Cost and inventory tracking
- Manual firing mode
- Prints loading, cost and inventory reports
- Extremely user friendly



Splitter



FSK Modem



SM-32T Module



SM-32



Booster Pack

SmartFire Wireless

Add even more flexibility to your SmartFire System

PyroMate SmartFire Wireless uses Industry-proven cutting edge technology as well as “digital spread spectrum” with 2 way transceivers.

SmartFire® Wireless Features

- Option of linkable transceiver packs that connect any two or more locations of standard Smart Modules, or stand alone Wireless Smart Modules
- Fully FCC compliant (no license required).
- Interference-free Spread Spectrum (Hopping) Frequency
- Up to 5 additional standard SM-32T Modules may be connected to each wireless SM-32T
- Operational distance of up to 1 mile
- May be used with conventionally wired shows or stand-alone wireless
- Same rugged underwater cases as all other Pyromate Systems
- Limited 2-Year Warranty



SmartFire Controller



Wireless Transmitter



Wireless SM-32T Module



SM-32T Module

BLACK MAGIC

BY **PYROMATE** INC.
FIRING SYSTEMS

Hand-held, high-power, capacitive discharge unit designed to fire up to 200 e-match igniters simultaneously over a 1000 foot span. High-tech circuitry means no charge time needed—*that means no waiting to fire*. Guaranteed to out-perform All other units of similar size and price. Made in the USA with the highest quality materials.

Specifications

| | |
|----------------------------|-------------------|
| Source | 9 volt Alkaline |
| Output | 250 volts |
| Charge time | None |
| Size | 5.25" X 3" X 1.5" |
| Internal Continuity Tester | |



BLACK MAGIC II

Same high-tech circuitry as Black Magic, but with added capability of firing up to 200 e-match igniters on each of **12 individual circuits** with no charge time between shots. Unit is totally enclosed in high-density ABS plastic case for protection and durability. Features include lockout key switch and built-in continuity tester.

Specifications

| | |
|----------------------------|-----------------|
| Source | 9 volt Alkaline |
| Output | 250 volts |
| Charge time | None |
| Size | 8.5" X 6" X 3" |
| Internal Continuity Tester | |



BLACK MAGIC III

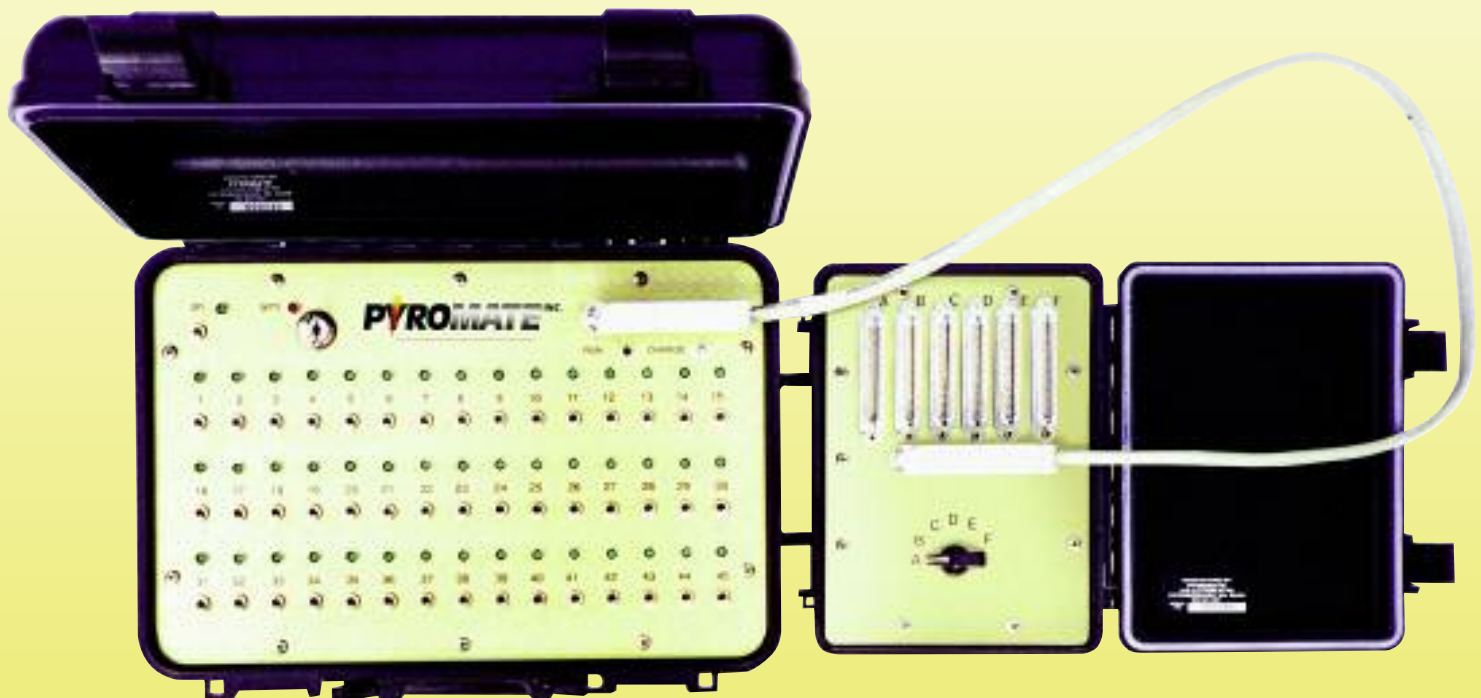
Hand-held, high-power, capacitive discharge unit **designed to fire up to 200 e-match igniters simultaneously over a 1000 foot span**. High-tech circuitry means no charge time needed; *that means no waiting to fire*. Guaranteed to out-perform All other units of similar size and price. Made in the USA with the highest quality materials. Same high-tech circuitry as Black Magic, but with added capability of firing up to 200 e-match igniters on each of **twelve individual circuits** with no charge time between shots. Unit is totally enclosed in high-density ABS plastic case for protection and durability. Features include lockout key switch and built-in continuity tester. Also modular output jack and field connection module with 100 feet of cable for reducing wire runs, additional cables can be added for further extension of module, also extra connection modules can be added to increase the amount of firing circuits.

Specifications

| | | | |
|-------------|-----------------|----------------------------|----------------|
| Source | 9 volt Alkaline | Size | 8.5" X 6" X 3" |
| Output | 250 volts | Module Size | 8.5" X 6" X 3" |
| Charge time | None | Internal Continuity Tester | |



The Original Firing System Designed with the Shooter in Mind



P-45

XP-270

Since its debut, the Pyromate System has proven to be the system of choice in the Fireworks Industry. Quality and reliability attribute to its success. Its compact, modular design makes it totally expandable, as well as durable and easy to use. Forty-five circuit field modules eliminate cumbersome rails or slats and reduce cable runs. A matrix Expansion Module has a lock-in/lock-out switch that ensures positive circuit selection with no fumbling. hundreds of systems are currently in use worldwide, performing thousands of precision displays.

The Pyromate Firing System was designed for regular and specialty firing, its features include total expandability from 45 to 540 cues, self-contained 24 volt rechargeable batteries complete with charger, highest quality American made switches rated for 100,000 actuations, LED test lamps for each circuit, keyed arm switch with indicator light for safety, gold anodized aluminum faceplate, high density ABS plastic underwater cases to withstand abuse, 45 circuit field connection modules with feed through option that allows simultaneous firing from up to ten locations 100 feet apart for a total of 1200 feet and will fire 30 igniters at once.



FM-45



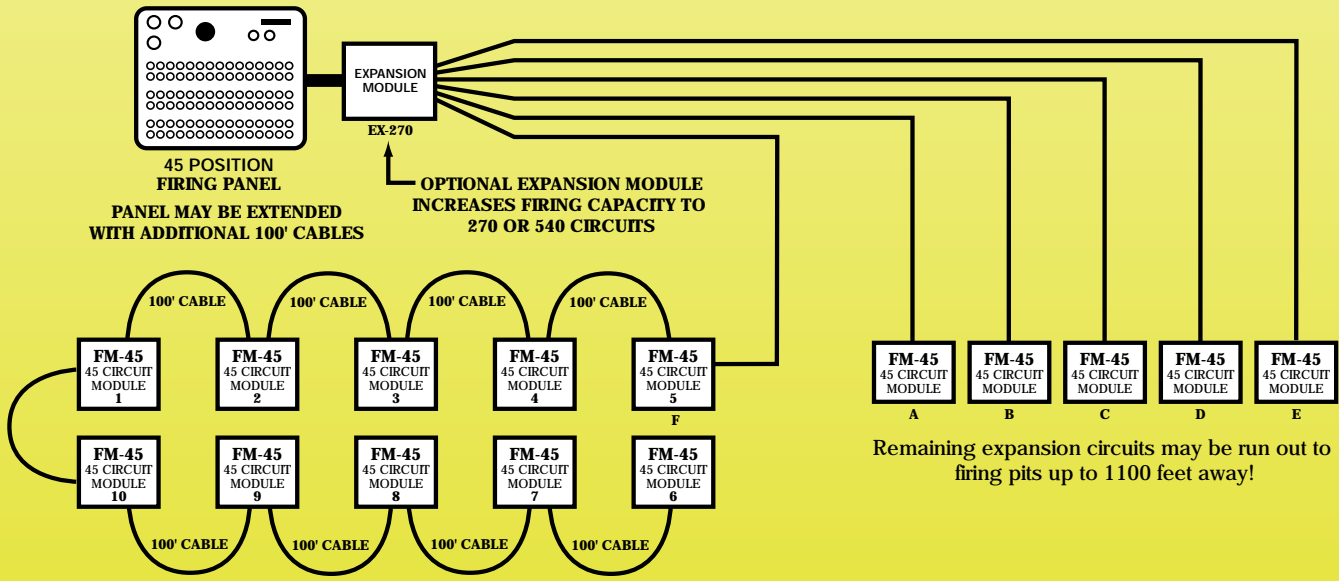
XP-540



Rugged Underwater cases



FM-45 Tester



45 POSITION FIRING PANEL
PANEL MAY BE EXTENDED WITH ADDITIONAL 100' CABLES

OPTIONAL EXPANSION MODULE INCREASES FIRING CAPACITY TO 270 OR 540 CIRCUITS

Remaining expansion circuits may be run out to firing pits up to 1100 feet away!

AS MANY AS 10 FIELD MODULES CAN BE USED ON A, B, C, D, E, OR F FOR FRONTS

Pyromate System Layout

MINI 96

BY **PYROMATE** INC.
FIRING SYSTEMS

The newly designed **MINI 96** is an economical firing system that is expandable from **12** to **96** cues. It is built with the same **integrity** as all other Pyromate systems. It's durable, compact, reliable and fully expandable. Its features include the **highest quality** American made switches rated for **100,000** actuations, **LED test lamps** for each circuit, **keyed arm switch** with indicator light for safety, **gold anodized aluminum** faceplate, **high density ABS** underwater cases to withstand abuse, **12 circuit field connection modules** with feed through option that allows simultaneous firing from up to ten locations 100 feet apart for a total of 1,200 feet and will fire up to 20 E-Match igniters at once.



MINI-96

FM-12

Individual Components

- | | |
|-----------------------------------------------|-------------------------------|
| Mini 96 Firing Panel | 24 volt Internal power Supply |
| FM-12 Field Connection Module with 100' Cable | with Charger |
| Feed Through Module Option | Shunting Plug |

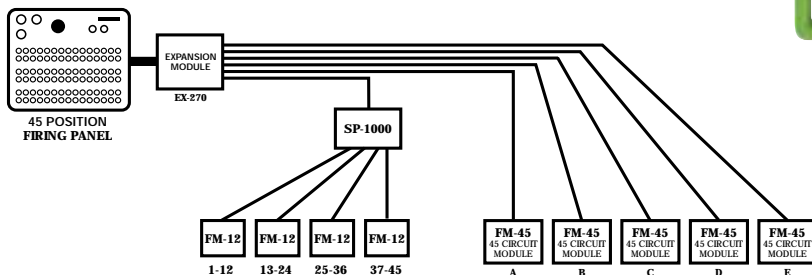
SP-1000

BY **PYROMATE** INC.
FIRING SYSTEMS

The new SP-1000 Interface allows the use of Mini 96, FM-12 connection modules with the P-45 Pyromate system. Make the P-45 more versatile by allowing the use of up to four FM-12 modules per channel for a wider distribution of circuits.



SP-1000



Remaining expansion circuits may be run out to firing pits up to 1100 feet away!

GIGALINK WIRELESS

BY **PYROMATE** INC.
FIRING SYSTEMS

The Gigalink wireless is the Hottest wireless system available, It packs a serious punch with it's 1000' range and is available in multiple configurations. All receivers can be programmed to fire individually or

simultaneously in unlimited quantities. The GIG-2 Receiver is specifically designed for multiple site firing and it can be used with either the GIG-4 or GIG-8 transmitters in addition to or in place of their receivers.

Features

- Fully FCC compliant
- Safe 4 billion encryption codes
- Programmable
- Powerful 1000' range
- Operates on 9-volt batteries
- Up to 18 hours in standby/fire mode per battery change
- Fires ten igniters in series per circuit
- 8 circuit model
- 4 circuit model
- 2 circuit module
- All modules can be programmed to same or different channels and work with either 8 or 4 channel transmitters



GIG-2 Receiver



GIG-4 Receiver



GIG-4 Transmitter



GIG-8 Receiver



GIG-8 Transmitter

SmartFire and SmartShow



SmartFire Wireless Transmitter



Mini 96



The Original PyroMate P-45 and XP-270



SM-32T Module



Wireless SM-32T Module

Black Magic



FM-45 Tester



SP-1000



XP-540



FSK Modem



Splitter



Booster Pack



FM-12



NightHawk



GIG-8 Receiver



GIG-8 Transmitter



GIG-4 Receiver



GIG-4 Transmitter



GIG-2 Receiver



FM-45



Warranty

PyroMate Products are hand-assembled using the highest quality American-made components. Because of this high quality and craftsmanship, all PyroMate Systems are backed by a limited Two-Year Warranty on all parts and labor, and 100% satisfaction money-back guarantee*.

*All returns must be within 30 days of purchase and in like new condition.

*Warranty excludes any damage caused by excessive rough handling, accident or misuse of product, or when used in conjunction with any components other than PyroMate products.

Disclaimer

The purpose of this equipment is to cause initiation of industry standard Pyrotechnic electric matches to ignite display type fireworks or pyrotechnic special effects.

Fireworks and special effects materials are explosives and may cause personal injuries or death to yourself or others, including spectators. SAFETY IS YOUR RESPONSIBILITY and is beyond the control of PYROMATE Inc.

The buyer / user assumes all responsibility and liability in the use of this equipment and further agrees, by purchase and / or use of this equipment, to indemnify and hold harmless PYROMATE Inc. and its agents against all liability for injury, loss, or damage direct or consequential arising out of the use of, or inability to use this equipment.

Any subsequent purchaser is also bound by these conditions of sale.

