



Helix System

Wireless E-match. Quick. Dependable.

PYROMASTER LLC

TAMING THE SKIES

513-941-0064

The Helix Advantage

- **Wireless E-match** - A helix coil on your product is used to electronically fire the e-match, rather than wiring to a speaker clip.
- **Quick** - Eliminates wiring of e-matches at the shoot site, saving up to 70% on labor time. Simply drop the product in the specially-designed mortar/holder and safely fire away.
- **Dependable** - The patented Helix induction technology is more dependable than human connections.

Makes Business Sense For:

- Theme parks with permanent pyrotechnics infrastructure where daily use can **significantly reduce loading time**.
- Shooting trailers where space is limited and the drop-only task can help with **ease and safety**.
- Stage/theater situations for quick reloading versus additional equipment.
- **Safety:**
 - Helix is safer than conventional e-match connection because the e-match is always shunted therefore **reducing static ignition**. The e-match coil assembly is pre-tested for continuity.
 - The shunted e-match means Helix is **impervious to RF signals**.
 - The Helix e-match coil will only fire if centered within the proper sized Helix-adapted mortar/holder. This **protects the device** from being fired by adjacent Helix-adapted mortars/holders.
 - Helix can be a **sealed pyrotechnic product** with no exposed match for shells, mines, comets or any 1.4g product. This reduces accidental ignition of the product in the field, during transportation, or in-house handling.



Specifications

- Your non-ferrous mortars are converted to the patented Helix induction system by adding a coil for 1.3g or 1.4g product holders based on their size.
- Helix power supply is connected to your e-match connector from your firing system. The power can be supplied via any 12 VDC, such as our Ratel module.
- The Helix coil can supply enough energy for most e-matches that use a pyrogen compound.
- Cost-effective Helix coils with e-match are added to your 1.3g or 1.4g product. A shell coil can be attached with masking tape so 1.4g coils can be installed in-house or at the product manufacturer. These coils are custom fitted for 1.4g and come in common sizes for 1.3g shells, mines or comets, from 30mm to 12" diameter.
- In the field the Helix product is simply loaded into the Helix mortar or holder.
- When it is time to fire the intended Helix device, your firing system pulses and triggers the Helix power supply to send a burst of energy to the intended Helix mortar/holder. This energy transfers to the Helix product coil and fires the e-match in a nanosecond of time.
- PyroMaster LLC Assurance Racks and Uni-Prox holder systems are designed for the Helix option.

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