

FIRECTRL - DIGITAL PYRO CONTROL MADE EASY

Taking digital pyrotechnics firing control to the next level.

FireCtrl provides ground breaking new features such as automatic field module discovery and error detection. Resistances can be measured to detect faulty squibs and the field modules arming voltage can be monitored to detect damaged cables. For the first time, your entire show setup can be thoroughly checked for any failures before they get a chance to ruin your show.

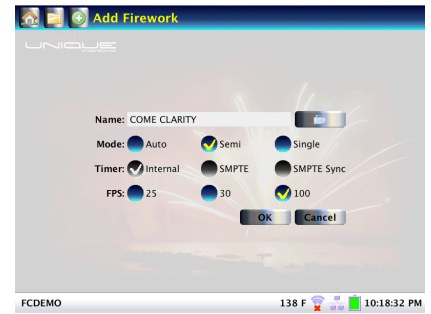
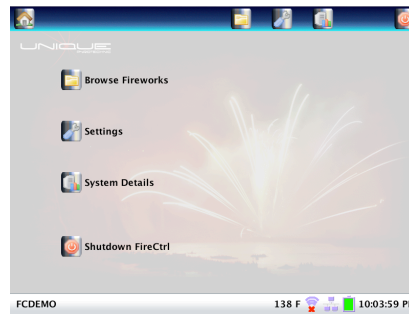
The main firing panel is built around the industrial strength ETX PC standard running Linux on a powerful AMD x86 processor. It has an extensive range of I/O connectors such as USB, LAN, WLAN (a/b/g), XLR (SMPTE in/out), audio out, DMX, VGA out, joystick connector and five 4 pole XLR connectors for connecting the field modules. All of this is packaged in a beautifully designed black powder coated sheet metal IP40 panel, where a 12 inch TFT touch display puts all of its features directly at your fingertips. Two 12V AGM lead batteries in an easy to access compartment provide 5 hours of battery time.

The field module is also made out of powder coated sheet metal and is, because of its connectors, able to fulfill IP64 which minimizes the possibility of dust or water intrusion. The address is displayed on an illuminated LCD and can be set between 000 and 999 using three lexan covered electrical buttons. Top quality high side drivers are used for firing and connectors are always shorted to ground, providing extra protection from every day hazards such as ESD, short circuiting, pole reversal etc. Dual outgoing RS-485 connectors make field setup easier and a 7-pin C16 connector allows the operator to connect up to four third party devices such as magnetic valves or other relays where each device can draw a maximum of 500mA.

The FireCtrl panel and its field modules are connected using differential communication over twisted RS-485 cables. This provides extreme reliability and protects your show from accidental discharge caused by external noise or interference. The equipment is tested for ESD/EMC to fulfill the CE requirements. Recommended maximum of field modules per panel outlet is 32 modules using a maximum of 1000m of FireCtrl cable.

Shows can be programmed to be automatic or semi automatic using either internal clock or external SMPTE timer (automatic fireworks only). Internal timer resolution can be selected to be 25, 30 or 100 ignitions per second. Maximum number of different field modules to be fired at the same time is 30 and the maximum sustained firing rate is 120 field modules per second.

The embedded software is fully upgradable over an encrypted remote connection ensuring that customers have access to fixes and improvements even after the point of sale. Development is ongoing and more features are planned.



Technical Specifications

- ETX PC based technology
- AMD Geode LX800 @ 500MHz
- 512MB of main memory
- Solid state Compact Flash drive
- 12 inch TFT at 800x600 resolution
- Industrial touch usable to -30C/-22F
- Rich set of I/O connectors such as
 - XLR connectors for SMPTE in/out
 - 2xUSB for external mouse or kbd
 - VGA out for extra display
 - RJ-45 LAN connector
 - 4 pin joystick connector
 - DMX512 (not supported yet)
- WLAN (a/b/g) with support for WPA2
- 5 hours of battery time
 - 2,5 hrs with 50 connected modules
- 4 pole Neutric XLR connectors
- Max recommended setup
 - 160 field modules using 5000m cable