

**5 / 10 Channel
SFX Pyrotechnic Firing System
User Guide**

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DISCLAIMER

In no event shall EasyPyro Ltd be liable for any direct, indirect, punitive, incidental, special consequential damages, to property or life, whatsoever arising out of or connected with the use or misuse of our products.

By purchasing and using this device you understand and accept this disclaimer.

This device is only for use by authorised and appropriately trained persons.

DESCRIPTION

Congratulations on purchasing an EasyPyro 5 Channel SFX Firing System! The system is intended for initiating pyrotechnics and solenoid valves in the Film, TV and Events industry. The system is hand built with care and attention in the United Kingdom. It will provide a lifetime of reliable service when used appropriately.

SPECIFICATION

Output Voltage	Approximately 12V or 24V. There are 2 internal Sealed Lead Acid batteries. These are connected in series or parallel depending on the position of the voltage selection switch.
Continuity Test Current	@12V approximately 12mA. @24V approximately 24mA.
Output Current	This will be determined by the firing circuit resistance and state of charge of the batteries. The unit will be able to provide around 20A in total. However, note that high current loads should not be left switched on permanently or damage may occur. There is no overcurrent protection or internal fuse. This is a design choice to remove failure points and increase reliable operation. All wiring and switches are over-specified and can handle short duration high currents.
Battery	5CH: 2 x internal 12V 0.8 A/h Sealed Lead Acid Batteries. 10CH: 2 x internal 12V 2.3 A/h Sealed Lead Acid Batteries.

BATTERY CARE

Avoid extremes of temperature for long term storage. Ideally store the unit inside a heated building.

All Lead Acid batteries slowly self-discharge. The batteries can be kept in good condition by charging every 2 – 3 months. Lead Acid batteries provide the longest service life when kept fully charged.

BATTERY CHARGING

The unit **MUST** be **OFF** and **SET TO 12V** to charge the batteries.

The unit is provided with a smart battery charger. When first connected the LED on the battery charger will be RED. When the batteries have reached about 90% of charge the LED will be GREEN and trickle charging will commence. You may remove the charger when the LED is GREEN.

Fully charged batteries will read at or above 12.5V (when selector switch is set to 12V).

GENERAL OPERATION

1. Ensure unit is OFF and set to SAFE.
2. Connect firing wires to screw down terminals.
Ensure wires are clamped on metal and not insulation.
Ensure there are no shorts between wires at the terminals.
3. Ensure firing area is clear and safe.
Always assume pyrotechnic may unexpectedly fire once connected to firing system.
4. Switch unit ON and press TEST button to check continuity on LEDs.
LEDs will be RED to indicate continuity.
Ensure red ARM LED is not illuminated. This would indicate the presence of power on the common firing rail.
5. Flip up red safety cover and move switch from SAFE to ARM.
Red ARM LED will illuminate to indicate power on the common firing rail.
Channel LEDs with continuity will be RED.
6. Flip momentary toggle switches DOWN to fire individual channels.
Switches have a strong spring return action and will return to the OFF position once released.