#### Overview

devices, and as such represents the very latest in safety and technology The six way is one of the latest additions to 'Le Maitre's' range of pyrotechnic

#### Unit Specification

Detonating Method High-energy 'low voltage', time slice capacitive discharge, with lock out.

Channel Switching Mechanical individual switching with '0', '1' (OFF/ ON) status indicators.

Test status LED - <20mA test current

Test Facility

Output Isolation Pyroflash 3 pin sockets, Prostage II quick connects Key switch disconnects detonator energy source

system. Cable lengths of up to 100 Metres per channel The use of 05mm cable is specified for the six way

Cabling

are supported, or any combination of lengths up to

Firing Capabilities The six way can detonate all six channels with up to eight effects on each channel simultaneously (48 is used to pulse the 'Air Cannon Interface', which in as an optional extra. The firing pulse from the six way to be fired. The channel and socket marked 'Air effects), or up to sixteen effects if only one channel is turn detonates the 'Air Cannon' 'Air Cannons' via the 'Air Cannon Interface' available Interface' is a dedicated channel used to fire Le Maitre

Supply Power

operation, optional power supply 18V d.c. (2 x 9V PP3 batteries supplied) for mains free

invalidate the warranty. The use of non 'Le Maitre' power supplies will

### **Testing and Firing**

satety zoning is applicable at such times should be viewed as a possible detonation. Therefore all clearance and In accordance with safety regulations, the testing of pyrotechnic effects

All channels should be up in the off position, i.e. '0' position

With the unit in the unarmed position and the key removed from the key

connected within the system can be checked for a correct circuit loop, and this will be verified by the illumination of the channel test LED By selecting channels, one by one, and pressing the test button, each effect

Section. All wiring should be checked before use. See Checking Wiring & Pod

wiring should be checked initially). way unit has been disarmed. (Suspect devices are very rare and therefore Any suspect device should only be removed from the system after the six

the source of supply. system as described, store it in the original packing, and return it safely to Should it be thought that a suspect effect is present, remove it from the

way should be securely disarmed When all effects and system wiring has been verified as correct, the six

corruption of the next detonation. With the unit armed via the key switch, should be returned to their OFF position after firing to prevent possible the FIRE button will be used to perform effect ignition. All channels Detonating any sequence is an identical operation to testing, except that required to be pushed for the test led to illuminate the test facility will work as before, but the test button will not be

## Testing and Firing continued

selections to be fired The FIRE button must be released after ignitions, to enable further

displays and is above all else. If in doubt - DON'T. Safety is of the utmost importance in all aspects of pyrotechnic

aware of all safety zones All persons involved within any pyrotechnic display should be

without having first removed the Arming Key, isolating the At no time should any effect be loaded into a cabled system,

### Checking Wiring & Pods

no matter who made them Engineer will be ultimately responsible for any errors that may occur, the need of haste, it must always be remembered that the Pyro-Effects condition Although the pressures of live performances can give rise to should be made to ensure that these devices are in good working Before any cable or Pod is used in a display situation, several checks

securing screws etc, is the first check that can be performed damage in the form of cuts, over twisting, exposed cores, missing A thorough visual check of cables/connectors for signs of physical

Any faulty cabling should be discarded or repaired

subjected to overstress clamping may be inspected to ensure that the cable has not been conditions, has not caused any loosening. At the same time, the cable screws, on a regular basis, to ensure that vibration in transit/stage It would be wise to check the security of all connector wiring lock

> damaged Pod should be referred for service. closed to their correct shape with the aid of narrow nosed pliers. Any and lead to open circuits. If they are damaged, these terminals can be checked for over opened terminals, which could result from excessive force, case, sockets or cable connector. The cable connector sockets should be A visual inspection of Pods will identify any visual damage to the Pod

wiring integrity, Pod cartridge sockets for electrical performance. After a visual check has been performed, the six way maybe used to check

Connect all cabling and Pods to the six way, with the Pods in close proximity to the six way.

service. and re-test. If the LED still remains on, then the cable is faulty, if not, then the Pod is at fault. Either way, the faulty item should be referred for Pod exists. Disconnect the Pod attached to this particular channel cable the Channel Test LED does come on, then a short circuit in the cable or procedure. At no stage should the Channel test LED give an indication. If With all Pods empty, perform the individual Channel/Effect test

be checked before use Where multiple effects are to be fired, all wiring and connections should

# PYROFLASH POD CONNECTOR WIRING DIAGRAM



Note that although mains type cable is used the applied voltage

A regular check should be made to verify the working condition of all pyrotechnic cables.





forbidden and will invalidate the warranty. NOTE: The use of non 'Le Maitre' pyrotechnic devices is strictly