

EASY FIRE

User Manual



Piroshow di Paolo Lombardo

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1 Put in action

Insert the igniters into the appropriate terminals with the control unit switched off.

Once all the desired igniters have been connected, turn on the Easy-Fire: Press the red switch 0/1.

The Easy-Fire is on, the green LED coupled with the 12V writing indicates the charge status of the module:

- If the green light is bright and bright, the battery is well charged.
- If the light becomes weak and dim, or does not turn on completely, recharge immediately.

Immediately after turning on the Easy-Fire, carry out the test.

To carry out the **line test**, press the red button.

Each of the LEDs that distinguishes one of the 12 channels:

- lights up brightly: there is continuity in the igniter line, OK.
- turns on weak light: there is a trigger.
- remains off: there is no continuity in the line - OUT ignitor.

Causes:

the ignitor has not been correctly inserted, check the correct insertion.

the igniter is shorted, replace the igniter.

2 Shooting phase

1. Attach the external antenna of the Easy Fire module.
2. Turn on the module.
3. Operate the remote control switch.
4. Shoot each of the channels according to the desired order.

N.B. : Easy-Fire can work completely closed in case of bad weather conditions.

3 Easy-Fire remote control communication test

The communication between the remote control and the Easy-Fire module is unidirectional type, so from the remote control it is not possible to confirm the stability of the radio communication with the Easy-Fire.

With the help of another person, the pyrotechnic can verify the functionality of the communication between the remote control and Easy Fire.

Establish the positioning positions of the Easy-Fire module, the position of execution of the show with the remote control. Before switching on the igniters, one person is positioned next to the Easy Fire on and the other is positioned in the place where the show can be performed with the remote control.

If the Easy Fire emits the classic channel activation sound ('tac') when the various channels of the remote control are pressed, the connection between the two modules works. Otherwise: look for a location with the remote control in which there are fewer obstacles than the straight line that hypothetically unites the two modules and repeat the operation.

If you are too far from the remote control range, move closer.

If the remote control is empty: replace the batteries.

Warranty conditions

All the Piroshow product are covered by international warranty for flaws, bugs or malfunctions following the European Directive 1999/44/CE and the Italian D.Lgs. 206/2005.

If the product you receive is not functioning or bad functioning the customer has the right to the substitution or the right of withdrawal, after the immediate communication following the laws.

All the Piroshow products are high tech condensate, the warranty on the right function extend for two years from the date of purchase and depends on the right use of the product, on the right maintenance and on the lack of alteration.

Norms of validity of the warranty:

- Each module have to be used after the reading of the user manual and the instructions it contains.
- Be always sure that not authorized people will not go on the field of the show and interfere with the ignition system.
- The Piroshow modules are appointed to the ignition of fireworks so the their safety and the safety of the show **depends even** on the right execution of the norms of the single fireworks. Be sure to have a special regard to the ones that are sensible to electromagnetic fields.
- The Piroshow products that are indicated as resistant to atmospheric agents have to be used with the case hermetically closed. In case this is not possible, the pyrotechnician have to cover the modules to protect them with an adequate covering.
- Where expressly indicated, the Piroshow products are resistant to heat and to the ashes produced during the execution of the show. Anyway do not position the module too near the fireworks. In any case, the Piroshow module are not resistant to flames.
- The exits, the doors, and the entries that allow the communication e the wiring between the Piroshow modules are guaranteed in their impermeability only trough a correct use. The hermetic top have to be **perfectly closed**, in exception of the time you need to connect the wires for the show execution.
- Use only intact product for the show. If you think there is any problem, do not use the module and do not try to reparations. The use of a not intact module put at risk the health of the pyrotechnician, of his assistants and to public of the show! The inspection and the test of the module is basic in case of rent from other fireworks companies!
- All the connectors and the entries have to be cleaned after the shoe.
- Piroshow is the only company that can repair and do the maintenance service. Considering the assembly method and the internal technology, the opening of the module is not authorized and is cause of decline of the warranty

Safety regulations

The following rules have to be followed to better understand the more relevant safety regulations.

The safety regulations were born from our experience and from the daily contact with our customers and permit the safe application of all the components of our of remote-controlled ignition systems. Piroshow is happy to receive further suggestions from the pyrotechnicians to improve the indications that regard the safety in the execution of the shows.

The following safety regulations are part of the instructions of all our systems.

The instructions have to be made available for all the people that are in contact with this aspect of your company.

Every technical system can potentially cause errors.

An erroneous use, damages, usury an ageing advance the introduction of errors.

The Piroshow electronic system of ignition is the most valid support for the pyrotechnician for the electronic ignition of the show and to exalt his artistic creativity, but is in relation with materials, firework, that are dangerous.

This is the motivation that made this rules.

1. Smoking and keeping tools that can make sparks is always forbidden in the zone of the show.
2. Implement all the anti-fire actions and aid actions you need based on the fireworks you use.
3. Respect the National rules, the technical rules and the user instructions of the fireworks and their clauses.
4. Be sure that unauthorized people can't access to the fireworks and ignition systems.
5. Respect the safety zones following the laws and the producer norms. Maintain the extraneous at the right distance from the barriers.
6. The instructions of the producer of the fireworks have to be respected.
7. The use of the installation of ignition have to be done after the right preventative measures.
8. The Piroshow products that are indicated as resistant to the atmospheric agents have to be use with the case with the case hermetically closed. In case this is not possible, the pyrotechnician have to cover the modules to protect them with an adequate covering.
9. Where expressly indicated, the Piroshow products are resistant to heat and to the ashes produced during the execution of the show. Anyway do not position the module too near the fireworks. In any case, the Piroshow module are not resistant to flames.
10. Use only intact product for the show. If you think there is any problem, do not use the module and do not try to reparations. The use of a not intact module put at risk the health of the pyrotechnician, of his assistants and to public of the show! The inspection and the test of the module is basic in case of rent from other fireworks companies!
11. Storms or electrostatic fields that take place before the storm can make chance ignitions. When you notice a storm is arriving, Piroshow suggest to stop the execution of your work for the show and to put in safety the materials you have already put in.
12. The igniters have to be connected in the specific terminal or quick clips, have the cure that the Slave 30 CH 100V, Easy Fire, SmartSlave modules are off or without connections that provide alimentation. Every pyrotechnic effect is anyway to be consider active in the moment the wires are connected to the unit of ignition regardless the system is set On or Off.
13. Always control the integrity of the electric wire you connect to the igniters.

14. Avoid that the fuse and the respective wire have contact with material than can conduct electricity if there is any risk of electrostatic charges.
15. Always control the integrity of the electric system wires.
16. Avoid all the sources of early ignition, alike high voltage of electric, magnetic and electromagnetic fields and sources of voltage.
17. Mobile phones, radio transmitters and all the instrument with internal batteries are a underestimate danger: if used at the same time of the use of the igniters can be cause of chance ignitions. BE CAREFUL!
18. Fireworks, depending on their composition, can produce ionized gas. These gas made the air conductor of electricity. Ionizing processes, if are near the wires of high voltage can made deadly overlaps for the people in the vicinity. Consider that air currents on the field can be different from the ones that are in the height of some meters.
19. Use wires long enough for your safety and for the safety of the system.
20. During the test or the simulation of the show is better that no pyrotechnician and no person is near the position of the fireworks, even if the testing process of Piroshow systems are extremely safe.

