



### **Lights effects**

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**Topic:** Educational Lighting Site

#### Choices and uses: analyses, observations and advice by the experts

We are often in contact with the problems, particularly related to lighting plants, of the people who design a light show and have to make choices or take decisions that are always different and never simple. However, we do not pretend that we can give you the solution to any problem, but we think we can advise you how to behave in certain situations. It is advisable for such installations to rely on the certified experience and professionalism (nowadays necessary more than ever) of one or more installers. For the choice of illumination effects and their installation we have outlined a simple table of behaviour that will help you invest in a more cautious aimed at your real needs.

- The choice and positioning of the projectors is fundamental to use the equipment to advantage.
- Choose the projectors and the control boards with the help of a professional installer and always ask for a few estimates, without forgetting that:
  - Italy is the first world manufacturer of such products;
  - there are many good quality alternatives on the market;
  - the purchased products can be better used and exploited even without necessarily being scientists.
- Ask for the intervention of the technicians from the manufacturing companies if the installer is not able to satisfy the programming requests of your light system.

Once everything is installed and functioning, it will often be necessary to provide for the maintenance of the projectors, whose worst enemies are dust and smoke that are often present in the environment. Dust and the rest must be periodically removed from the inside of the projector in order to avoid serious damage to electronic or electromechanic components. However, a few rules need to be respected:

- make sure that the devices are switched off;
- do not perform delicate operations in precarious work conditions;
- never use inappropriate chemical products;
- always read the instruction manuals carefully before intervening.

Another aspect that must not be underestimated is the excessive temperature that sometimes develops in the environment where the light effects are created. Never install a device in small and badly-aired spaces. If the projector uses very powerful discharge lamps such as 575 or 1200W ones, it is necessary to regularly check the functioning of the cooling fans, in order to avoid thermal shocks to the components and to reduce considerably the duration of the lamps. Pursuant to EEC law regulations in force, all projectors should be equipped with thermal sensors able to stop the functioning in case of overheating. To avoid serious security problems, always demand that such law regulations are observed.

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