

## **What are Indoor Aeromusicals ?**

AeroMusicals is a wonderful aerial ballet featuring specially designed electrically powered model aircraft. The competing pilots demonstrate their aerobatic skills and flying precision whilst performing a freestyle aerobatic routine in harmony with music. The routine performed is developed to convey the appropriate mood of the music. The pilot is also the witness of his own performance; he enjoys the precision of his piloting skills as well as the variety and artistic quality of his flight routine. AeroMusicals benefit from the latest technological developments which have created sub-miniature electronics and tiny but highly efficient and powerful electric motors and batteries.



**« an indoor spectacular of flying to music »**



## **What do you have to do to win ?**

Pilots perform in a series of qualification rounds; only the best qualify for the next round until the top two or three remain to compete in the final for the title. In each qualifying round pilots must present a new routine to accompany music which is different from their previous performances. Flying indoors within a restricted space requires a great deal of skill, aircraft that are extremely manoeuvrable and have good control responses even at the very low speeds they perform at. The pilots must demonstrate rapid co-ordination, quick forward thinking and fast reaction time to produce what would otherwise be considered impossible.

## **How is it scored ?**

The flights are judged by a panel of five international judges who award marks on eight different criteria ranging from precise manoeuvres and adherence to the music to the best use of the available airspace.

## **Tell me more !**

The aircraft used for AeroMusicals performance are purpose-designed, radio controlled miniature aeroplanes capable of remarkable manoeuvrability. The wingspan is normally slightly less than one metre and they are constructed from a special foam material resulting in a flying weight of less than 200 grams. With such a low mass they are particularly suitable for safe indoor competition and provide the pilot with great potential to create very special manoeuvres. The propulsion is from miniature electric motors powered by lightweight rechargeable batteries. The electronic (radio control) equipment uses the latest and best available miniaturisation technology. Remarkably, the combined weight of the servomechanisms required to operate the controls, electronic components and the battery weigh less than fifty grams. The competitors have improved the performance by careful reduction in weight, an improvement in power to weight ratio and great attention to detail in the construction and finish.

