ANTI-DROWNING SYSTEM FOR POOLS
he growing popularity of fitness and recreation centres that house spa facilities as well as swimming and leisure pools has led to the creation of many aquatic parks and high-quality private and public pools that attract increasingly larger number of users.

The diversity of visitors forces the managers to organize their service offerings accordingly, upholding increasingly higher quality standards, while paying special attention to guarantee their clients a service that does not comprise any savings and has no minimum level: safety. It is in fact of the essence to give swimmers certainty, peace of mind, and the awareness of being in a facility where the safety level is high and one’s safeness is constantly monitored as far as the greatest danger: drowning.

To protect the swimmers, the law provides supervision, with the help of qualified personnel monitoring the pools. This activity is somewhat difficult, as the bottom of the pool is difficult to see (because reflected light, waves, and floating swimmers do not always permit a full view of the activities at the bottom of the pool). Distraction is also a factor. To ensure that swimmers are safe and to provide the bathing facility with the highest safety level possible, we proudly introduce AngelEye LifeGuard.

AngelEye is a safety system specifically designed to control the activity of the swimmers in the swimming facilities; the system can evaluate dangerous situations and let the lifeguards know that there is an unsafe situation in progress. This is accomplished by means of hand-held devices in a quick and effective manner, thus providing immediate and focused assistance. Thanks to the AngelEye new visual technology, a new lifeguard monitors all the activities at the pool, with no distractions!
1. The AngelEye drowning detection system studies the behaviour of the swimmers at the pool, immediately identifying any danger situations.

2. The video cameras in the water probe the pool and capture images that are analyzed in real time by the AngelEye software.

3. The rescue personnel, thanks to the service monitor, can control all the activities at the bottom of the pool.

4. In the event of drowning danger, the AngelEye system activates a vibrating acoustic signal on the hand-held device or on the new smart watch of the lifeguards, thus allowing immediate intervention in the exact area of the pool.
The implementation of the AngelEye drowning detection system is composed of three phases.

First off, a layout design is developed according to the plan of the pools, a service performed at no charge by the AngelEye personnel.

Carrying out the project calls for the installation on the walls of the pool of specific detection portholes designed by AngelEye, available in two models: deck hatch or niche portholes. Selecting the porthole that best suits a given type of pool is the job of the AngelEye designers, who work in synergy with the client. The last phase calls for the housing of the central unit and the associated connection to the detection and warning devices of the AngelEye system.

The designers will fine tune the system to make sure it works under any brightness and pool attendance conditions, up to and including the final testing and inspection.

AngelEye also offers assistance and support services, which guarantee the clients constant controls on the correct functioning of the system and new functionality updates as they become available from the development team. The AngelEye system is compliant with privacy law requirements and can produce visual documentation of any critical situation detected.