

CamerEye Edge Background, Code & Permitting Considerations

Drowning as a Public Health & Safety Risk in the United States

Drownings and near-drownings in pools and spas continue to pose a significant public health and safety risk to our nation's children, and drowning remains the leading cause of unintentional death for children ages 1-4.

According to the Consumer Product Safety Commission, more than 400 children a year die from unintentional but preventable drownings. The vast majority of those deaths happen at residential/home pools or spas.

The highest percentage of these deaths (57%) were attributed to a gap in the adult supervision where an adult lost contact or knowledge of the whereabouts of the child, and during that period, the child managed to access the pool/spa.

Drowning is Preventable Through "Layers of Protection"

Drownings happen quickly and quietly so no single prevention strategy is enough. Home pool owners should use "layers of protection" to provide a system of increased security to prevent unauthorized access to bodies of water, especially important for children. This means that multiple strategies or devices are used constantly and simultaneously.

The layers include various types of strategies and physical barriers, including alarms that detect motion on the water's surface and can notify a parent or caregiver when an electronic perimeter is crossed close to a pool or spa. The alarm should sound both at the pool and in the home when the surface of the water is breached or the perimeter is crossed.

CamerEye supports and is a completely consistent element of the universally accepted drowning prevention strategy calling for layers of protection. CamerEye uses cutting-edge Artificial Intelligence, integrated with high-performance cameras that among other things, alerts parents, caregivers or pool home owners via a mobile app creating a 24/7 safe aquatic environment.

CAMEREYE

- Is designed and lab tested & certified to detect human entry in and around a pool/spa. For example, if a child were to fall into a pool, CamerEye immediately sends an alert to the homeowner, parent or caregiver so that they can take quick action.
- Alerts immediately when a child approaches a pool or spa allowing for quick adult response to prevent water entry in the first place.
- Rings an audible alarm at the pool/spa, in the home and on a designated mobile phone to help ensure that an adult is aware of a potential safety issue at the pool.

CamerEye Compliance with City and State Code

PRODUCT FEATURE COMPLIANCE

LISTED IN ACCORDANCE TO AND COMPLIANT WITH ASTM F2208 – TYPE B (SUB-SURFACE OR IN-POOL ALARM) AND TYPE C (PERIMETER OR ENTRY ALARM)

CamerEye is the first Artificial Intelligence system to meet ASTM F2208-08 standard for pool alarms in two (2) product classification categories. First, it is the only pool alarm to be listed as a Type C perimeter alarm, under ASTM, that detects an unauthorized entry into the pool/spa before entry into the water by way of a permanently structure mounted system vis a vis a camera. Our A.I.-based pool alarm systems uses visual artificial intelligence to detect when someone has entered the pool area and act as a virtual pool fence. The Type C product feature can then send an audible alarm on the camera and an indoor siren in addition to the phone or tablet, so pool owners can take action right away. This is accepted by many states such as California, New York, North Carolina, Maryland etc..



Additionally, our pool/spa alarm meets the requirements of the widely used Type B classification that monitors subsurface incidents and alarms consistent with the Standard when a water entry scenario is detected. The Type B product feature is designed to monitor for signs of water entry and send an audible alarm on the camera and an indoor siren in addition to the phone or tablet, so pool owners can take action right away. These devices use a variety of infrared signals emanated from the camera device that go below the surface of the water to detect when someone has entered the water, including how long they've been submerged, and whether or not they are moving. Additionally to the code requirements, if the device detects that someone has been submerged for too long or is not moving, it will send an audible alarm (with a different sound) on the camera and an indoor siren in addition to the phone or tablet, so pool owners can take action right away. This is required in a few states especially Florida.

LISTED IN ACCORDANCE TO AND COMPLIANT WITH UL 2017 (DOOR AND WINDOW ENTRY ALARMS)

Conforms to UL 2017-- CamerEye fully conforms and is listed in accordance to Underwriters Laboratories 2017 standard which helps ensure that alarms sound effectively if an unlawful entry is detected by the form of door or window sensors that communicate the entrance to the camera as well as an indoor siren. When a door or window above a certain height requirement is opened, an audible alarm sounds on the door sensor, and an indoor siren in addition to the phone or tablet, so pool owners can take action right away.

Each of the CamerEye alarm features (Type B subsurface alarm, Type C perimeter alarm and door/window entry alarms) sound at a level that meets or exceeds the ASTM and UL auditory decibel requirements which is 85 dB at 10 feet.

Product Use Compliance

Authorized by the ISPSC – With the UL 2017 listing, CamerEye is authorized by the International Swimming Pool and Spa Code to meet the additional safety layer needed if a perimeter fence is used around the pool/spa where a wall of a dwelling serves as part of the barrier and doors and windows provide direct access to the pool/spa. With our ASTM F2208 listing, we believe that the CamerEye system and each of its product features ALSO fall into the “catch all” provision of ISPSC section 305.4, Subsection 6 as adopted by many States, Cities, Municipalities and Townships. The drafters of the Code considered (and rightfully so) that over time there would be new and better technology and products that would support the “layers of protection” scheme of Section 305.4. Accordingly, Subsection 6 (in the 2021 version of the Code and Subsection 3 in the 2018 & 2015 version of the Code) anticipates that the code, when it comes to safety, should keep up with the changing marketplace so long as the technology is as good as other listed options AND is approved. CamerEye meets both of these ISPSC requirements. The product provides the same degree of protection and, in fact, exceeds the safety of traditional door/window alarms and the product is approved by listed NRTL labs - IAPMO test lab (ASTM F2208-8) and CSA (UL 2017). I will note that the **ISPSC defines “approved” as either a code official himself/herself approving the feature** or if an “approved agency” approves including “an established and recognized agency who is regularly engaged in conducting tests or furnishing product certifications”. Code officials around the nation are approving CamerEye as an acceptable, additional “layer of protection” under the ISPSC.

At least 16 States have adopted the ISPSC for all newly constructed or substantially remodeled/repared pool/spa. Additionally, at least 19 States have authorized optional adoption which has resulted in hundreds and hundreds of municipalities around the country to adopt the ISPSC. Please contact your CamerEye representative if you have questions about the requirements of a particular jurisdiction.

Stand Alone Alarm Use Laws

Many states and cities have their own stand-alone drowning prevention or pool alarm requirement laws (i.e., Florida, California, Tennessee, just to name a few). Installation of the CamerEye system can often meet these state and locality requirements for an acceptable “layer of protection”.

Please contact your CamerEye sales representative if you have questions about the requirements of a particular jurisdiction or also by reaching out at programs@camereye.ai or calling us at our support line number **1-800-906-2810**.

