

# POOL ALARM



## Smart Protection Safety You Can Count On

FCC ID: 2A351-STP218

### GENERAL SAFETY INSTRUCTIONS

**Please read the instructions fully prior to use.**

- The pool alarm is exclusively a safety device and is not a lifesaving product.
- Under no circumstances should you label this product as a substitute for other means of safety, such as lifeguard, parental supervision, fences, gates and so on.
- This device may contain small parts that may be a choking hazard to children under 3 years. Keep small parts away from children.
- This device is not a toy, do not allow children to operate with it because children could hurt themselves or others or damage the device.
- Without detaching from the aforementioned, your attention is drawn to the fact that the product may not sound a warning in cases of gradual entry into the pool.
- Ensure that the device covers the entire area of the pool and if necessary, adjust the sensitivity of the device.
- Do not leave objects in the pool when the device is activated.
- Do not drop, submerge, mistreat, or place unit upside down in the pool.
- Do not place in pool near filter return area. Do not use when pool sweeps are in use or while cleaning.
- Do not attempt or attempt to repair the unit yourself, the maintenance must be done by qualified service personnel only, except opening the battery compartment to replace the battery.

### ALKALINE BATTERY SAFETY GUIDELINES

The pool unit contains one 9V Alkaline battery. Please note below safety guidelines for maintaining and disposing of the battery.

- Mind the polarity of the battery when placing it in the battery compartment.
- Do not charge battery. Charging may result in electrolyte leakage and/or damage.
- Exhausted battery should be immediately removed from the device and disposed of.
- Do not heat battery.
- Do not dispose of battery in fire.
- Keep battery out of the reach of children. Do not allow children to replace battery without adult supervision.
- Battery disposal-Do not throw battery in the trash. Discard battery at an appropriate recycling location. Battery shall be disposed of in accordance with local regulations.



**CAUTION:** 9V Alkaline battery may explode or leak if recharged, inserted improperly or disposed of in fire. Do not open battery.

**Important:** This device is not intended to replace any other safety consideration that is, adult supervision, lifeguards, fences, gates, pool covers, locks, and so forth, and some devices may not detect gradual entry.

### PACKAGE CONTENTS

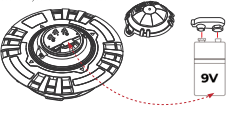
| What's In The Box                                                                 |                       |
|-----------------------------------------------------------------------------------|-----------------------|
|  | 1 Pool Unit           |
|  | 1 Home Unit           |
|  | 1 Power Adapter       |
|  | 1 9V Battery          |
|  | 1 Attachment Kit      |
|  | 1 Attachment Anchor   |
|  | 2 Suction Cup         |
|  | 2 Hooks               |
|  | 1 Attachment String   |
|  | 1 Philips Screwdriver |
|  | 1 Adhesive            |
|  | 4 Spare Screws        |
|  | 1 3M Adhesive         |



**NOTE:** The box is made from dustless cardboard and has been specially designed to protect the contents. If the box arrived corner damaged or if a part is missing, please contact our customer service: support@tklusa.com

### GETTING STARTED

**1. Battery Installation**  
The battery compartment is located on the top cover of the pool alarm. Before initial use, open the compartment using the Philips screwdriver. Insert the supplied 9V alkaline battery, ensuring the polarity is correctly aligned as shown in the diagram. After the battery is installed, tighten the screws securely to close the compartment. The battery will last for about one year under normal use.



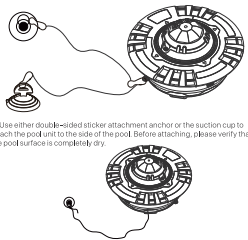
**2. Home Unit Installation**  
Connect the wall adapter to the home unit and mount it on the wall closest to the pool alarm unit. For a secure installation, we recommend using nails (not included). Alternatively, you may use the included double-sided adhesive pad to attach the home unit to the wall. When plugged in, the red indicator of home unit will stay on, indicating that the device has been powered on.



### SETTING UP THE POOL UNIT

A single pool unit can cover pool area of 20' X 40'. If pool is larger than 20' X 40', 2 or more pool units should be used. Before starting setup, ensure that the battery is correctly installed in the Pool Unit. Perform the following steps to set up the pool unit:

- 1) Connect the attachment string to the pool unit using the included hook, and the other end to either attachment anchor or suction cup on the side of the pool. Connect the attachment string between the anchor hook/suction cup hook and the pool unit hook. You can adjust the string length as needed based on your pool's actual configuration.



### SETTING UP THE POOL UNIT

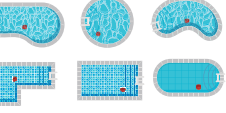
- 3) Short press the "power button" of the pool unit to turn on the pool unit, the green indicator will stay on for 10 seconds and then turn off.



**Left Button**

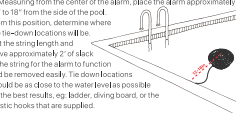


- 4) Then press the left button, the alarm enters a 30s arming delay, this gives enough time to place the device on the water surface without triggering false alarms. And the pool unit and home unit (pre-installed on the indoor wall) will connect automatically.
- 5) Depending on the pool shape, place the pool unit according to below drawing. Please place the pool unit away from any obstruction in the pool, such as pool drain or any other pool element.



### SETTING UP THE POOL UNIT

- 6) Measuring from the center of the alarm, place the alarm approximately 12" to 18" from the side of the pool. From this position, determine where the tie-down locations will be. Cut the string length and leave approximately 2' of slack in the string for the alarm to function and be removed easily. Tie down locations should be as close to the water level as possible for the best results, e.g. ladder, diving board, or the plastic hooks that are supplied.
- 7) Tie one end of each string to each tab on the float (see below illustration). Tie the other end of the strings to each tie down location of the pool. Do not place the alarm any closer than one foot from the side of your pool.



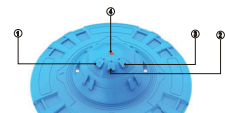
**NOTE:** To keep the nylon string from unraveling, tie a knot in the end or use heat to melt the strands together.

**IMPORTANT:** Do not use adhesive-backed hooks on wet-tiled or reflective aluminum pools, as removing the hooks may tear or damage the pool wall.

Do not place your alarm next to the filter return. The filter inlet of your pool should be pointed downward at an angle toward the bottom of the pool and away from the water surface. This will reduce any surface waves and will help to avoid any false alarms when the pump turns on.



### POOL UNIT FUNCTION



**30S Arming Delay:** While powered on, press button, the alarm enters a 30s arming delay, this gives users enough time to place the device on the water surface without triggering false alarms.

**Trigger & Silence Alarm:**  
Trigger Alarm-While the unit is working, press the button once to trigger the alarm immediately, and the red indicator light will flash rapidly.  
Silence Alarm-While the alarm is triggered, press the button once to silence the alarm. If the alarm is not manually silenced, it will continue sounding for 3 minutes before stopping automatically.

**IMPORTANT:** For safety reasons, the outdoor alarm will continue to sound even if the indoor receiver is turned off. To stop the alarm, the pool alarm unit must be manually turned off at the pool.

**Auto-Reset:** After the alarm is silenced, the unit will automatically reset after 30 seconds and return to monitoring mode.

**Power On:** Short press the power button to turn on the device. The indicator light stays red 10 seconds.

### POOL UNIT FUNCTION

**Power Off:** Press and hold the power button for 3-5 seconds. The indicator light flashes red twice.

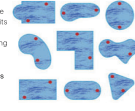
**Swim Mode**  
1. **Activate Swim Mode:** While powered on, press the button once to activate swim mode. Green indicator will remain solid, and the alarm will not trigger, allowing users to swim safely without interruptions.  
2. **Auto Deactivation of Swim Mode:** After leaving the pool, if the water surface remains calm for 10 minutes, the alarm will automatically deactivate Swim Mode and resume normal monitoring.

**Operation Indicator:** While the alarm's active, the red indicator light flashes once every 10 seconds.\*

**Low Battery Alert:** When the alarm's battery is low, the unit will emit a short "0" beep every 30 seconds until it is completely exhausted and the red indicator light will flash 5 times. Please replace the battery promptly. If not, the alarm sound may not reach the required level of 85 dB at a distance of 10 feet when triggered.

### Multi Pool Units Installation

If your pool is larger than 20' X 40', we recommend using more than one pool unit. When placing two pool units in one pool, depending on the pool shape, place the pool units according to the drawing below.



**NOTE:** Please follow the guidelines in "SETTING UP THE POOL UNIT" section in this manual.

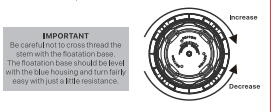
### ADJUSTING SENSITIVITY

Turning the flotation base clockwise or counterclockwise raises or lowers the sensing ring with respect to the water. The closer the sensing ring is to the water, the more sensitive the alarm.

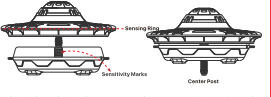
• **Increase Sensitivity:** Turn the flotation base clockwise to make the alarm respond to smaller water disturbances.

• **Decrease Sensitivity:** Turn the flotation base counterclockwise to reduce false alarm caused by wind or water circulation.

• **Default Sensitivity:** Default sensitivity is rotating the flotation base counterclockwise 3~4/2 turns.



**IMPORTANT:** Be carefully not to cross thread the ring with the flotation base. The flotation base should be level with the blue housing and turn fairly easy with just a little resistance.



**NOTE:** When adjusting the pool alarm to the lowest sensitivity setting, make sure that the center post remains slightly exposed so it can maintain contact with the water and ensure proper alarm operation.

### TESTING BEFORE USE

To ensure effectiveness, please test the pool alarm every time you placed it into the pool by performing the following steps:

1. Make sure that the home unit is plugged in and the red indicator stays on.
2. Make sure that the pool unit is installed battery and in the power-on state.
3. Place the pool unit in the pool per instructions guide with the float and center post in the water. To the alarm so that the sensing ring makes contact with the water. When the water is contact with the center post and sensing ring at the same time, the alarm should sound from both pool unit and home unit. This indicates that the pool transmitter and the indoor receiver are properly connected.
4. To ensure proper performance of the pool alarm, please subjectively perform the following simple sensitivity checks based on the actual conditions of your pool and household environment. Between tests, wait 10mins to allow waves to settle.
- 1) **Floating Object Test:** Drop a small, lightweight floating object (such as a foam toy or soft ball) into the pool. The alarm should activate shortly after the object creates surface movement.
- 2) **Water Ripple Test:** Create gentle ripples on the water surface using your hand at various distances from the alarm. This verifies that the unit detects light disturbances.
- 3) **Child/Pet Simulation Test:** Select an object with a weight similar to that of your household pet or child and drop it into the pool to test whether the alarm is triggered. This verifies that the alarm can be triggered properly. It is recommended to use a 2-gallon bucket filled with water. It will weigh between 15 and 20 lbs.
- 4) **Multi-Point Pool Test:** Perform the above tests from different locations around the pool. This ensures the alarm can sense water movement across the entire pool surface.
- 5) **Environmental Check:** Re-test sensitivity after heavy rain, strong wind, or sudden temperature changes, as environmental conditions may affect water behavior.

To ensure the alarm functions properly at all times, it is recommended to perform a weekly test.



**Note:** Do not leave over overnight until you have controlled the alarm with proper adjustment of the sensitivity setting and a secure tie down.

### TROUBLE SHOOTING

**1. Pool alarm is not triggered**  
1) Check if the home unit is plugged in and the pool unit is ON. The pool unit should float on the pool surface with battery compartment facing upwards.  
2) Check if the pool unit takes battery sense, 10" every 30 seconds. If yes, please replace the battery right away with a new 9V alkaline.  
3) Check the sensitivity is below. If yes, raise the sensitivity to proper level and test again. Make sure the center post remains exposed so that it can contact with water.  
4) Check if the pool is larger than 20' X 40'. If yes, it is recommended to add an additional pool unit.

**2. Pool alarm was working and now it is not.**  
Outdoor may build up on the sensing post, please gently clean with steel wool.

**3. Home unit is turned on but does not work when the pool alarm is triggered.**  
1) The home unit may be too far from the pool unit, please relocate the home unit with 230ft from pool unit and reduce obstruction between home unit and pool unit.  
2) The home unit may be in a building with metal siding or with foil insulation, please relocate near exterior. Don't place it near steel walls, cables, or any electrical appliances, such as a computer. The home unit should be placed at an elevation higher than the top of the pool.  
3) Maybe the power adapter is not working, change another 150mA power adapter instead.

**4. Frequent False Alarms**  
1) Keep the pool unit away from the swimmer and water pump outlet.  
2) Secure the device using the included installation kit.  
3) Remove floating toys or debris from the pool.  
4) Test and lower the sensitivity.  
5) Check if the weather changes, e.g. winds are greater than 12MPH or during a storm, if yes, you may decide temporarily decrease the sensitivity and reset the alarm at new setting level. If not, sense the float may get you want to protect at all times of the pool.

**5. Pool unit fails to power on**  
1) Make sure that the battery is correctly installed with correct polarity and it's not drained.  
2) Check the battery connects with dry cloth and make sure that the compartment is completely dry before installing.

### MAINTENANCE

**STORE THE ALARM**  
1. After the alarm is triggered each time, please remove the pool unit from the pool, shake off the excess water around the sensing ring and center post, and place it next to the side of the pool away from the area of play.

2. When the pool is no longer in use, wait 10 minutes to let the water settle in the pool. Pick up the alarm, reset it and carefully place it back in the pool at the suggested location based on different pool shapes.

3. When you need to store it for a long period of time (several months) during winter or vacation, please remove the 9V battery and replace battery cover and float. Turn off the home unit and unplug the wall transformer. Place all alarm components in the box it came in and store it in a dry, secure area.

**ALARM HANDING**  
The pool unit is an electronic and mechanical device made from a sturdy UV resistant material. DO NOT DROP the pool unit. Like other appliance, it may break.

**WARRANTY**  
The pool alarm has a 2-year warranty if any defects in material and workmanship upon the purchase date from Amazon, but does not cover damage caused by accident, misuse, abuse, or by affecting any unauthorized accessory or alteration of the product, or by connection of the product to any but the specific current and voltage indicated in the instruction manual, or by any other conditions beyond our control.

By claiming your warranty, please contact our support team at support@tklusa.com with your order ID and the defects you encountered.

### FCC WARNING

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:  
(1) this device may not cause harmful interference, and  
(2) this device must accept any interference received, including interference that may cause undesired operation. Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

**NOTE:** This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

To maintain compliance with FCC's RF Exposure guidelines, This equipment should be installed and operated with minimum 20cm distance between the radiator and your body. Use only the supplied antenna.