

# WAVE w10 Swimmer Safety System USER GUIDE

v0721-1.



Design subject to change.





IMPORTANT. Please read this guide thoroughly before using your w10 system.



# TABLE OF CONTENTS

Safety Instructions	3
Warnings/Cautions	3
Compatibility	5
Legal Information	5
Welcome	6
What's in the Box	7
Powering and Charging Your w10 Hub	8
WAVE w10 Management App	9
Using the App	10
Using Wearables	17
Using Your w10	20
Troubleshooting	23
Customer Support	25
Water Safety Information	26



#### Important Safety Instructions

- These instructions are accurate as of date of release and may be updated as needed. Always check the WAVE website, <u>www.wavedds.com/support</u> for the most recent version which may contain important updates.
- 2. Heed all warnings.
- 3. Always follow these instructions.
- 4. Clean only with a damp clean cloth. Do not use cleaning products containing ammonia.
- 5. Do not block any ventilation openings.
- 6. Do not install near any heat sources such as radiators, stoves, or other apparatus that produce heat.
- 7. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the equipment.
- 8. Only use attachments/accessories specified, approved or authorized by WAVE SYSTEMS INC.
- 9. Use only with the cart, stand, tripod, or bracket specified by WAVE SYSTEMS INC or sold with the equipment. When a cart is used, use caution when moving the cart/equipment combination to avoid injury from tip-over.
- 10. Unplug this equipment during lightning storms or when unused for long periods of time.
- 11. Refer all servicing to qualified personnel. Servicing is required when the equipment has been damaged in any way, liquid has been spilled or objects have fallen into the equipment, does not operate normally, or has been dropped.

#### WARNINGS/CAUTIONS



IMPORTANT! WAVE SYSTEM products are designed to supplement and NEVER replace responsible human supervision of swimmers. Only another human being can investigate, intervene and rescue a potential drowning victim if necessary. NEVER LET ANYONE SWIM ALONE OR UNATTENDED REGARDLESS OF AGE OF SWIMMING ABILITY LEVEL OR EXPERIENCE.

- Contains small parts which may be a choking hazard.
- Equipment may contain magnetic material. Consult your physician on whether this might affect an implantable medical device.
- To reduce the risk of fire or electrical shock, do NOT expose the AC Charging/Power Adapter to dripping or splashing, and do not place objects filled with liquids on or near the product.



- Keep the product away from fire and heat sources. Do NOT place naked flame sources, such as lighted candles, on or near the product.
- Do NOT make unauthorized alterations to this product.
- Do NOT use unauthorized products and accessories with this equipment.
- Do NOT use AC charging/power adapters other than the unit included with this equipment.
- Where the AC mains plug or an appliance coupler is used as the disconnect device, the disconnect device shall remain readily operable.
- Internal batteries provided with this product may present a risk of fire or chemical burn if mishandled.
- If a battery leaks, do not allow the liquid to come in contact with the skin or eyes. If contact is made, seek medical advice immediately.
- Do not expose products containing batteries to excessive heat (e.g. from storage in direct sunlight, fire or the like).





Avoid direct water spray at equipment.

# Dispose of used batteries properly following local regulations. Do not incinerate.

NOTE: Appropriate compliance protocols for this equipment in process as of the time of this writing. 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

Changes or modifications not expressly approved by WAVE SYSTEMS INC may void the user's authority to operate this equipment.



#### Compatibility

Only WAVE SYSTEM INC approved, recommended or authorized products may be used with this equipment. Use of any non-authorized products may void your warranty.

#### Legal Information

Security Information: This product is capable of receiving automatic security updates from WAVE. To receive automatic security updates, you must complete the product setup process in the WAVE Management app and connect the product to the Internet. **If you do not complete the setup process, you will be responsible for installing security updates that WAVE makes available.** 

By using WAVE SYSTEM products you acknowledge and agree that WAVE products are NOT intended and will NOT be used as a replacement or substitute for responsible and diligent human supervision of swimmers and non-swimmers around water. Furthermore you agree to hold WAVE SYSTEMS INC., its partners, affiliations, manufacturers, suppliers and vendors harmless for any injuries or damages, physical or otherwise, as a result of the correct or misuse of WAVE SYSTEM INC products.



Not for use while diving or snorkeling.

The Bluetooth<sup>®</sup> word mark and logos are registered trademarks owned by Bluetooth SIG, Inc.

Wi-Fi is a registered trademark of Wi-Fi Alliance®

WAVE Systems Inc: 1-203-429-4636

© WAVE SYSTEMS INC. v0721.1 No part of this work may be reproduced, modified, distributed or otherwise used without prior written permission.



# WELCOME.

Congratulations and thank you for your purchase of the w10 Swimmer System! You have taken a very wise initiative to dramatically improve the safety of your loved ones, friends and guests around water.

The WAVE w10 uses proven tracking technologies to accurately determine the real time status of your swimmers each time they enter the water, alerting you or caregivers immediately if a swimmer remains underwater beyond an acceptable period of time. The w10 will also immediately alert you should a non-swimmer enter the water as well.

WAVE is simple to use, deploys quickly, and is portable. It can work in all water types including lakes and other natural bodies of water.



Optional accessories may be depicted. Design subject to change.

To be effective, the WAVE w10 must be used properly *each and every time* people are in or near the water. All swimmers, regardless of age or swimming ability, should be using WAVE wearables, and doing so should be considered as normal as wearing seat belts when in a car or wearing a helmet while cycling.

While we have worked hard to make WAVE as reliable as possible, no technology is a perfect solution in and of itself. The system should **never be used as a replacement for diligent responsible human supervision**. Only another human being can intervene and save a potential drowning victim. Therefore **never let anyone swim alone regardless of their age or swimming ability. Never rely solely on the w10 for supervision of people in or around water.** 

Used along with common-sense safety measures, we are confident that the w10 will provide you and your family with years of safe and enjoyable swimming.





# WHAT'S IN THE BOX

- 1 x WAVE w10 Swimmer Safety System Hub
- 1 x Wall Mount
- 1 x Charging/Power Adapter
- 1 x Power Cord
- Optional Goggle Clip Wearables\*
- Optional BuddyTag™ Wearables\*
- Optional Tracker Wearables\*
- \* Included quantities may depend on your specific order and/or may be shipped separately.

NOTE: If any item is missing please contact Customer Support at 1-203-429-4636 or support@wavedds.com.





# POWERING & CHARGING YOUR w10 Hub

The w10 Hub may be powered via the internal battery or the AC Charging/Power Adapter. The standard battery will last up to 6 hours of typical use\*.

Fully charging the battery normally takes a few hours. After this initial set up process you may view the Hub's battery level at any time by using the WAVE Management App (see below).

# **START UP PROCESS**

Press the Power Button to initiate the startup process. After

a few seconds the LED on the Power Button will glow green, the Strobe will light up in a chase pattern, and depending on your software version installed, a tone may sound. Once the start up process is complete (typically up to 2 minutes), the Strobe will begin a slow fade in/fade out pattern to indicate that the Hub is on.

# **POWER DOWN PROCESS**

Press and hold the power button down for approximately 5 seconds to power down the w10. The green LED on the Power Button will turn off. Depending on the system software version installed in your w10, it may sound a tone and the Strobe will light in a pattern during the shut down process.





\* Your actual battery life may vary depending on system alerts, notifications and environmental factors.

# WAVE w10 MANAGEMENT APP

The WAVE w10 Management App is a simple to us app that enables you to monitor the status of the Hub, wearables and other accessories. The app may be used on smartphones and tablets (recommended).



Note: Although recommended, it is not necessary to have the WAVE app open or active while using your w10. The system will monitor your swimmers and non-swimmers using the most recent settings.

# SETTING UP THE APP

- 1. Power on the w10 and allow the Hub to fully complete the Start Up Process.
- 2. Open your device's settings and go to the WiFi settings page.
- 3. Look for the WAVE wireless hotspot w10-ap-1539d6 to appear.
- 4. Select and join the WAVE wireless network using the password "WaveNetwork".
- 5. Open your device's web browser program (Chrome, Safari, etc.).
- 6. Enter the following URL in the address bar: http://start.wavew10.com:3001 or http:// 192.168.8.1:3001, if the first does not work.

You should be automatically redirected to the WAVE management page, but if that does not happen after a few minutes, please restart the Hub. To do so, press the power button for 5 seconds and release it. Wait 30 seconds, then turn the Hub on again by pressing the power button again. Once the Hub is up and running, open your device's browser and go to http://w101539d6.hub.wavedds.net to access the WAVE system page directly. If it does not appear after a few seconds, reload/refresh the page.



connect to and manage the w10. Depending on how your device is configured, its access to the Internet may be interrupted while on the WAVE network.

# **USING THE APP**

Note: We often release software updates to improve user experience. As a result, your version of the Management App may look different and/or have different functionality from this guide. Please make sure to check your email for update notices from WAVE, and return to this guide for updated versions.

# **MONITOR PAGE**

This is the page that will appear when the app is first opened. This page enables you to view the general status of both the system and all enabled wearables on one screen



**1. Hub Battery Level**. Provides the current internal battery level. Changes to a charging icon when plugged into wall power.

**2.** Wearables. Number of wearables that the system is currently monitoring.



**3.** System Notifications. These are non-emergency messages about the system. Touching this icon will launch a pop-up window displaying the current message(s).

- 4. Bracelets. This is a future feature and not active at the time of this writing.
- 5. Filter Icon. Touch this icon to select alternate views and options.
- 6. Manage Icon. Touching this icon or swiping right brings you to the MANAGE page.
- 7. Monitor Icon. This is the current page.
- 8. Help Icon. Touch this icon to learn more about the page you are on.
- 8. System Name. The name you input in Settings will appear here (see below).
- 9. Wearable Status Legend. Refer to these symbols to see status of each wearable.

**10. Wearable Tile**. Information about each wearable being monitored will appear within this tile. Touching a wearable's Tile will launch a pop-up window with detailed information.





# SYSTEM SETTINGS

To access the SETTINGS page, select the MANAGE icon on the bottom of the MONITOR page. Then select SETTINGS from the menu bar at the top of the page.

1. Dangerous Submersion Alert. The WAVE w10 continually measures the amount of time that the face of a swimmer wearing aTracker or Goggle Clips is fully submerged at a rate of twice per second.

				$\overline{\mathbb{W}}$			
		0	Wearables Bracelets	\$ <sup>0</sup>			
		Hub	Description			Value	
•		Dangerous Submersion	Alert Allowable seconds of sub	omersion before Alert (in seco	ands)	30s 🚽	
	<b></b>	Hub Audio Alerts	Adjust volume of Audio A	lerts. Set to 0 to turn off		30 -	
		App Audio Alerts	Adjust volume of Tablet A	udio Alerts. Set to 0 to turn o	ff	80-	
L		Audio Alert Type	The audio file used for Al	ert		Default <del>-</del>	
		Visual Alert Type	The LED Alert on Hub St	robe		Default⊸	
			ିଲ MONITOR	(2) MANAGE			

Set the amount of time your swimmers may remain completely submerged before the system will generate a Dangerous Submersion Alert. Touch the amount of time (ex: 15s) to select from a drop down menu with a range of times from 15 seconds to 45 seconds.

#### **IMPORTANT!**

Aquatic safety experts recommend that no person remain fully submerged for more than 30 seconds regardless of age or swimming ability.



- 2. Hub Audio Alerts. When the w10 determines that a swimmer may be at risk it sounds a very loud audible alert. Set the volume of the alert based on your needs and preferences. Although not recommended, the audible alert may be muted by setting the volume to 0. If you do so, the app will ask you to confirm this selection.
- **3.** App Audio Volume. During an alert you can also have your device running the w10 Management App sound an audible alert as well. (Note: Depending on manufacturer this feature may not work on all tablets or phones.)
- **4.** Audible Alert Type. At the time of this writing the only alert type available is the default tone. However future system updates will include more options.
- 5. Visual Alert Type. When the w10 determines that a swimmer may be at risk it will begin to repeatedly flash its bright strobe light. At the time of this writing the only visual alert type available is the default flashing.

**IMPORTANT**: Always remember to select SAVE to save your settings after making any changes.

# SYSTEM PREFERENCES

At the time of this writing the Preferences page is in development. Currently most preferences are set to a default option. As new options become available after system software updates this document will be updated and available online at wavedds.com/support.

Please contact WAVE with any questions.



#### MANAGING WEARABLES

Your WAVE w10 System may arrive preconfigured with WAVE wearables. However from time to time you may want or need to add or remove wearables from your system.

- **1.** Go the MANAGE page.
- **2.** Select ADD WEARABLE button.
- 3. Move or gently shake the

wearable(s) you would like to add. The new wearable(s) should appear in the window.

- **4.** Select the wearable. Its assigned ID number will automatically appear in the space at the upper left of the screen. You may now also enter other identifiers such as a name (examples: 20Jimmy, 15 Goggles, 07 Mary, 11BuddyTag1).
- 5. Select the ADD WEARABLE button to add this wearable to your system.

NOTE: You will also use this window to enable, disable or remove wearables.

- Enabled. An enabled wearable is monitored by the system.
- **Disabled**. A disabled wearable is *not* monitored by the system. The wearable may be monitored again by toggling this setting back to Enabled.
- **Remove**. A removed wearable is not monitored by the system. The wearable may be monitored again only by adding it back to the system as explained above.

0		V	<b>)</b>		¢®	
- (	Wearables	Bracelets	Settings	Preferenzis		
				( AD	D WEARABLE	
Number Et	Status		Ena	ble(2)/Disabl (0)	Remove	
1				-	ŵ	
name	э			-	団	
		ଜ MONITOF	@ MANAGE			



# DANGEROUS SUBMERSION ALERTS

In the event that a swimmer has remained submerged beyond the selected maximum time selected for Dangerous Submersion Alerts, the system will immediately alert based on the selected settings for these alerts (i.e., audible alerts, visual alerts, etc.).

Address entered during setup appears here.	Smith 123 M Smith	Family Pool an Street Only, US 50555 ALERT! A SWIMM IMMEDIATELY SCAN WATE	IER MAY BE AT RISK		Solost to
Future feature. ——		CALL 91	SUPPRES Daniess Sire, Srobe, and Bacelet vibration	Mur Talle	Select to suppress alerts.
					audio alert.

If the app is open and running (recommended) the alert screen above will appear.

The water should immediately be inspected for any submerged swimmers and if required, rescue actions should be taken as quickly as possible to remove the swimmer from the water.

If a rescue is necessary and the victim appears to be unconscious CPR should be used and emergency services notified immediately by call 9-1-1 on a telephone. (See References section of this guide and learn more about CRP for children and adults by visiting https://www.medicalnewstoday.com/articles/324712.)

After evaluating the circumstances that caused the alert, it may be stopped by selecting the SUPPRESS button. If selected, the app may request that you select a reason for terminating the alert.





NOTE: If the Dangerous Submersion Alert is not suppressed the system will remain in alert until the wearable (potential victim) is removed from the water.

If the app is not readily available and you wish to suppress the alert, you may do so by pressing the physical SUPPRESS button located on the back of the Hub.

Alternatively you may power down the w10 using the Power Down Process if necessary.



BUTTON

# **NON-EMERGENCY NOTIFICATIONS**

The WAVE w10 continually monitors the status of the wearables and system. In the event that an item needs your attention the system will notify you.

NOTE: Depending on the options selected for your w10 system, some users may also receive remote notifications via text, SMS, email, phone and other options. For more information on these services please contact us.



alla i

• System Notification. When there is a nonemergency notification needing your attention a bell icon will appear at the screen's upper right corner. A badge will also appear showing the total number of notifications currently needing your attention. Selecting this icon will open a pop-up window with information including instructions for any necessary actions to be taken.







• Wearable Low Battery. When a wearable's internal battery reaches minimum power the wearable's tile outline will turn red.



NOTE: A wearable with a low battery warning should be removed from the system as quickly as possible and replaced, otherwise it may cause false alerts.



- •Hub Low Battery. When the Hub's internal batteries reach minimum power the system will notify you. When seeing this alert connect the Hub to the AC Charging/Power Adapter as soon as possible. You may continue to use the system as normal and the internal batteries will automatically begin recharging. If not recharged in time, the Hub will eventually shut down.
- **High Temp Warning**. On rare instances if the operating temperature of the Hub becomes too high the system will notify you. At this time the w10 should be moved to a cooler location.
- IMPORTANT: If the internal temperature continues to remain too high the system will automatically shut down to prevent damage. Immediately move the system to a cooler location and wait at least 30 minutes before turning it on again.

# **USING WEARABLES**

The wearables included in your initial order arrive preconfigured to work with your specific w10 Hub. Using the WAVE w10 Management App you may add or remove wearables as needed.

The wearables are lightweight, comfortable and when used properly will not detract from your swimmers' fun and enjoyment around water. When activated, wearables enable your w10 system to monitor the user's status by determining how long the



swimmer's face is submerged and therefore unable to breathe.

Wearables are simple to use. They have no buttons or switches and instead are automatically activated when their internal sensors detect motion. To preserve its battery, they will enter a sleep mode when they detect lack of motion for 2 minutes.

The wearables' internal battery will last as long as 18-36 months depending on how often they are used. When their battery becomes low your w10 will notify you via the WAVE w10 Management App and depending on your software version via the w10 Hub's strobe light. When notified the wearable should be removed from the system and be replaced as soon as possible.

You may check the battery status and functionality of your wearables at any time by using the WAVE w10 Management App (refer to the instructions above).

# TRACKERS



Trackers were designed to fit most head sizes comfortably. When worn, they should rest above the ear and as close the wearer's forehead as possible.



# **GOGGLE CLIPS**



Pairs of Goggle Clips (or simply Clips) are mated to each other using a durable plastic monofilament tether, and are designed to work with virtually all goggle types.

An elastic neoprene band is used to capture the goggle strap and keep the Goggle Clips securely attached while swimming.

When attaching to the goggles, position each Clip as close to the goggle lens as is possible.





NOTE: Some users may resist wearing a Tracker or find it uncomfortable. This typically subsides after a few minutes of swimming. For wearers who complain of a tight fit, gently bend the Tracker's ends outwards. It will return to its normal state after use.

# **BUDDYTAGS<sup>TM</sup>**



BuddyTags are used by the w10 to detect when the wearer enters the water. They attach to clothing quickly, safely and securely using powerful magnets. ToddleTags may also be attached to your pet's collar using the included carabiner.

For children it is recommended that the BuddyTag be attached along the back of their waistline to help prevent them from playing with or trying to remove their tag.



# TO ATTACH BUDDYTAG TO A PERSON:

**1.** Remove the magnetic Back Plate by *sliding* it off the BuddyTag housing.

2. Position the Back Plate on the inside of the wearer's clothing (shirt, shorts, bathing suit, etc.) in the middle of their backside. The smooth curved surface should be facing in towards the wearer's body.



User's Place the BuddyTag housing over the wearer's clothing in the Clothing

location of the Back Plate with its magnet facing towards the wearer's body. The BuddyTag and Back Plate magnets will naturally attract each other and create a secure attachment to the clothing.

4. To remove the BuddyTag after use, simply hold the Back Plate with one hand while sliding the BuddyTag off with the other. CAREFULLY return the Back Plate to the BuddyTag for later use.



# TO ATTACH BUDDYTAG TO A PET:

- 1. Attach Carabiner to the hole in the Back Plate.
- **2.** CAREFULLY attach Back Plate to ToddleTag housing.
- 3. Attach BUDDYTag and Carabiner to pet's collar.





Use care to avoid pinching fingers when attaching or removing the BuddyTag.

Magnetic materials. Consult your physician on whether this might affect an implantable medical device.

# **USING YOUR w10**

# **UNDERSTANDING RANGE**

The w10 Hub has a typical wireless range of up to 150 feet when there is clear "Line of Sight" or simply LoS. In general terms that means there are no physical obstructions between the transmitting device (in this case, WAVE wearables) and the receiving device (in this case, the Hub). Note that the range is typically the greatest in the direction the front of the unit is facing.





# UNDERSTANDING WHERE TO PLACE THE w10 HUB

The recommended placement of the w10 should be above the ground at a minimum height of 3 feet or more and on a secure flat surface such as a tabletop, or mounted in the included Wall Mount.



There should be no physical obstructions such as concrete walls, dense vegetation, stone, or metal in front of the Hub.

IMPORTANT. Do not subject the w10 Hub to direct water spray or submerge it in water. Move the unit inside or under cover during extreme or inclement weather.

# **TESTING THE w10 BEFORE USING**

In most instances where you decide to place your w10 out of convenience will likely work. However it may be necessary to relocate the unit to a better spot to insure complete coverage of the water. To confirm that you have selected an acceptable location it is necessary to perform the following simple test.

IMPORTANT. Always perform this test when using the w10 for the first time at a new, recently renovated or modified swim area. Always make sure that you are testing with ENABLED wearables (see MANAGING WEARABLES).

- (Optional) Use the WAVE w10 Management App to select settings for this test such as lowering the volume of the speaker or reducing the maximum time selected for Dangerous Submersion Alerts. Remember to change the settings back after the test.
- 2. With the system on, walk (or swim) to different areas in the water and completely submerge the enabled wearable into the water until a Dangerous Submersion Alert is seen or heard.
- 3. Continue this process until all general areas of the water are tested.

NOTE: Although generally not necessary, a more thorough test is swimming back and forth from end to end to cover the entire swim area, similar to mowing a lawn.



Above the water areas that typically require more attention are those near pool equipment, landscape features such as walls, rocks and dense vegetation.

In the water areas that typically require more attention are around metal ladders, dock floats or pilings, and features such as raised walls, large rocks, waterfalls, and dense vegetation.



NOTE: If there are areas in the water that cause a false Dangerous Submersion Alert when the wearable is not submerged, it is then necessary to find an alternative location for the w10 or address any object(s) that may be causing the issue.

If the system is moved repeat the above test until you are completely confident that the entire swim area is fully covered.

#### **ACTIVE MONITORING**

After successfully confirming that the system completely covers the swim area, you are now ready to start using your w10 for active monitoring.

- 1. Power on the w10 using the Start Up Process.
- 2. Use the w10 Management App to change/confirm settings
- 3. Check for system notifications and take any required actions as necessary.
- 4. Distribute only ENABLED wearables to all swimmers and non-swimmers.





**IMPORTANT:** Always maintain vigilance and follow all standard safety protocols around water. Never rely solely on the w10 system.

#### **AFTER USING YOUR w10**

- 1. Always inspect water to confirm that all swimmers have safely exited.
- 2. All wearables should be accounted for and returned for storage.
- 3. Power down the w10 using Power Down Process.
- 4. If battery power is used recharge the system.
- 5. Clean and dry system if required, wiping down with damp soft cloth\*.
- 6. While cleaning occasionally inspect system for any signs of damage.
- 7. Occasionally inspect each wearable for signs of damage.
- 8. Store the w10 in a dry location. Use the Wall Mount only if it is installed in a protected area.

\* Do not use ammonia based cleaning products as these may damage plastics over time.

# TROUBLESHOOTING

#### System does not power on.

1. Confirm that you followed the steps in POWERING AND CHARGING YOUR w10 Hub section.

2. If the w10 determines that its batteries are too low it may automatically power down the system to protect the batteries and electronics. Connect the AC Charging/Power Adapter to the w10 Hub and plug the Charger into a wall outlet. After approximately 30 minutes try powering on the Hub again. Check battery level and continue charging unit the battery level is 100%.

#### System goes into alert with no active wearables.

**1.** Scan the water immediately to confirm that there is no one (or pet) in the water. Glare, surface distortions, blind spots, etc. may prevent you from seeing the possible victim.

2. Scan the water to make sure that no wearable is fully submerged under water.

3. Restart the w10 following the steps in POWERING AND CHARGING YOUR w10 Hub section.

**4.** If restarting the w10 does not solve the issue, move the w10 to a new location (see UNDERSTANDING WHERE TO PLACE THE w10 HUB section).





5. If none of the above resolves the issue, the alerts may be because the system is detecting an active wearable that you may be unaware of. Use the w10 Management App to determine which, if any, wearables are appearing in the Dangerous Submersion Event page. If a wearable does appear in the list, see below, System goes into alert with active wearables, but no one is submerged.

#### System goes into alert with active wearables, but no one is submerged.

**1.** Scan the water immediately to confirm that there is no one (or pet) in the water. Glare, surface distortions, blind spots, etc. may prevent you from seeing the possible victim.

2. Scan the water to make sure that no wearable is fully submerged under water.

**3.** Use the w10 Management app to determine which wearable, if any, is appearing in the Dangerous Submersion Event page. If a wearable appears in the list the alert may be because the wearable is out of range, has a low battery, or is in a location where its radio signals are being blocked by an obstruction.

**4.** Check the status of the wearable using the app. If the wearable has a low battery remove it from the system (see MANAGING WEARABLES section).

**5.** If the wearable causing the alert does not have a low battery but its whereabouts are unknown, disable the wearable from the system until the wearable is found. Once found you may re-enable the wearable (see MANAGING WEARABLES section).

**6.** If the wearable's radio signals are being blocked by an obstruction, relocate the object causing the obstruction or relocate the w10 (See UNDERSTANDING WHERE TO PLACE THE w20 HUB section).

**7.** If the problem persists with more than one wearable, restart the w10 (see POWERING AND CHARGING YOUR w10 Hub section).

**8.** If restarting the w10 does not address the issue, move the w10 to a different location (see UNDERSTANDING WHERE TO PLACE THE w10 HUB section).

#### The w10 Management App does not load or I am unable to connect to the w10.

- 1. Confirm that your smart device has WiFi turned on.
- 2. Confirm that your smart device is connected to the WAVE wireless network.
- 2. Reload/refresh the WAVE Management App page until it reappears.

**4.** If the above does not resolve the issue, restart the w10 following the steps in POWERING AND CHARGING YOUR w10 Hub section.

#### A Tracker does not stay on.

**1.** Some Trackers may expand when previously worn by a larger head. Gently bend the ends of the Tracker inwards to return them to their original shape.



**2.** Certain activities such as diving, "chicken fights", "rough housing" and similar may cause a Tracker to fall off on occasion. Trackers float and most users intuitively put the Tracker back on their head. If the activity continues, consider switching the Tracker as described above or instruct the wearer(s) to refrain from the activity.

**3.** Switch the Tracker for Goggle Clips attached to a pair of goggles and instruct the wearer that they may leave the goggles on their forehead if preferred.

**4.** Switch the Tracker for Goggle Clips attached to a common elastic headband found at most drugstores and where beauty supplies are sold.

# **CUSTOMER SUPPORT**

Our goal is to provide you, your family and guests with a safe enjoyable experience while using the WAVE w10 system.

If none of the above troubleshooting solutions work, or if you have any questions, concerns or other issues please reach out to us so we can help.

1 203 429 4636 during normal business hours



support@wavedds.com 24/7/365



wavedds.com/contact-us-w10 24/7/365

# **CUSTOMER NOTES**

Date of Purchase:	
Seller:	
System Purchased:	
Other info:	



# WATER SAFETY INFORMATION



Source: Medical News Today



# **Do Your Part, Be Water Smart!**



The American Red Cross wants you to learn the basics for keeping yourself, your family and friends safe in and around the water every day.



It all begins with learning to swim! Swim lessons teach skills you need to enjoy the water safely.



Don't just pack it, wear your life jacket.

All boaters should wear U.S. Coast Guardapproved life jackets. Inexperienced swimmers should wear them in or around water.



Swim as a pair near a lifeguard's chair. Never swim alone.



Think, so you don't sink.

Know what to do if you get in trouble in the water. Floating or treading can help you think!



Look before you leap. Be sure that it's a safe place and time to swim.



Reach or throw, don't go!

Reach or throw an object to help someone in trouble in the water to safety. Never go in the water to try to help.



Follow the rules.

They help keep you safe. Always listen to the lifeguards.



Pledge to Pool Safely!

Learn the safety steps then take the pledge at poolsafely.gov.

To find out how to sign up for Red Cross swim lessons and to learn more about water safety, visit **redcross.org/watersafety.** 

Source: American Red Cross