



H₂O 1800 *PLUS* Series
with SmartLED
Owner's Manual



- H₂O 1810 *PLUS*
- H₂O 1820 *PLUS*
- H₂O 1830 *PLUS*
- H₂O 1850 *PLUS*



NOTICE!

According to how you use your transmitter, the transmitting range might be much different.

You will have more range if you use your transmitter apart from your body as follows:



Maximum



Typical Range



Minimum Range

TABLE OF CONTENTS

• Table of Contents	3
• Introduction	4
• Package Contents	5
• Model Features	5
• Parts & Functions	6
• SmartLED.....	11
• Charging the Batteries.....	12
• Turning ON and OFF.....	13
• Testing	14
• Programming the Collar.....	16
• Properly Fitting the Collar	17
• Setting the Intensity Level	18
• Maintenance.....	20
• Important Safety Notes.....	21
• Warranty.....	22
• FCC/IC/CE Compliance.....	23
• Contact Information	24

INTRODUCTION

Congratulations and thank you for purchasing our **H₂O PLUS Series™** Remote Training Collar with “Add-On” capability, the perfect remote trainer for hunting, basic obedience, and professional training. The collar’s Maxx-Range™ Internal Antenna System, the industry’s only internally woven antenna in the collar, gives this unit up to a one mile range. The H₂O PLUS series collars feature sixteen levels of intensity easily selected by one hand for maximum control and safety. All models include Momentary “Nick” and Continuous stimulations. Certain models also feature Vibration, Jump & Rise stimulations, or a Beeper with Locate, Run & Point mode, and Point Only mode. The collar and transmitter are both rechargeable and 100% waterproof (the transmitter FLOATS on water!). This system also features our SmartLED light that lets you know when charging is complete and how much charge is left during use. The H₂O PLUS Series Dog Training Collar is durable, safe, and very humane when used correctly. The automatic safety shut-off feature stops the stimulation after 8 seconds to prevent accidental or prolonged stimulation. Thanks again for choosing D.T. Systems to help bring out the best in your best friend!

IMPORTANT NOTE:

Please read this owner’s manual in its entirety before operating this unit. Should you have any questions about our collars or their operation please contact our Customer Service department (see back page for address and phone number information).

PACKAGE CONTENTS

- Transmitter with Antenna and Lanyard
- Collar Receiver
- Rechargeable NiMH Batteries for both the Collar and Transmitter (already installed)
- Battery Charger
- Splitter Cable for simultaneous charging
- Test Light
- Owner's and Training Manuals
- Carrying Case

MODEL FEATURES

- Digital Technology
- Up to one mile range
- Expandable* with H₂O Add-On collars (sold separately)
- SmartLED charging and battery life status indicator
- Rechargeable, waterproof collar and transmitter
- No-Slip/Soft-Grip transmitter *FLOATS* on water!
- 16 intensity levels of 'Nick' and Continuous Stimulations
- MAXX-Range™ Internal Antenna System
- Gentle Touch System™ Extra Mild Stimulation
- Built in safety shut-off system
- Vibration (H₂O 1820 *PLUS* only)
- Jump and Rise Stimulations (H₂O 1830 *PLUS* only)
- Beeper - Locate, Run & Point mode, Point Only mode audible from 450 yd. (H₂O 1850 *PLUS* only)

* H₂O 1850 *PLUS* can expand to a 2-dog model. All other H₂O *PLUS* models can expand up to a 3-dog model.

PARTS & FUNCTIONS

*The H₂O 1810 *PLUS* will not have the #1 or #2 buttons.

H₂O 1820 *PLUS*

Button #1 - Vibration

Button #2 - Vibration + Stimulation

H₂O 1830 *PLUS*

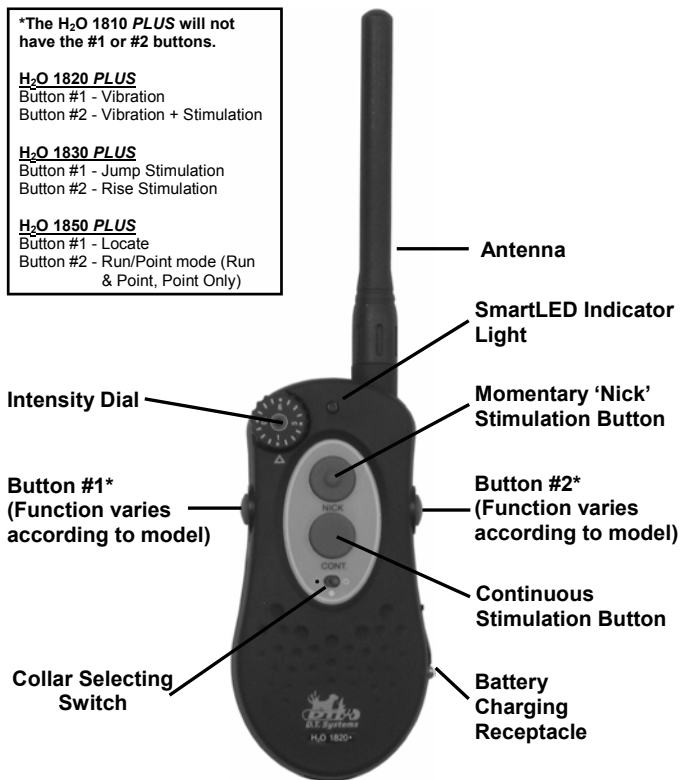
Button #1 - Jump Stimulation

Button #2 - Rise Stimulation

H₂O 1850 *PLUS*

Button #1 - Locate

Button #2 - Run/Point mode (Run & Point, Point Only)



Transmitter

Transmitter Antenna - Always check that the Antenna is securely fastened to the transmitter before each use. Hand tighten only. Use caution when attaching Antenna as over-tightening may cause damage to the Antenna or antenna mount.

PARTS & FUNCTIONS



Intensity Selection Dial - The intensity selection dial can be set from level 1 to level 16 to find the exact stimulation level for your dog (see *page 18*).

Transmitter Indicator Light - When pressing any of the Transmitter buttons, the SmartLED lights *green* if there is 51% to 100% charge remaining, lights *red* if there is 21% to 50% charge remaining, or flashes rapidly if the battery needs charging. When the charger is plugged into the Transmitter, the SmartLED lights *red* while charging and turns *green* when charging is complete.

Collar Selecting Switch - Switching between collar units can be controlled by toggling the Collar Selecting Switch to the desired unit.

'Nick'/Continuous Stimulation Buttons - Pressing the upper button ('NICK') makes the collar emit a Momentary (or 'Nick') Stimulation. Pressing the lower button ('CONT') emits a Continuous Stimulation as long as the button is being pressed (up to an 8 second safety cutoff). *All H₂O PLUS series models have these buttons.*

Buttons #1 & #2 (H₂O 1820 PLUS only) - Pressing the Vibration Button (#1) makes the collar vibrate only. Pressing the V+S Button (#2) makes the collar vibrate first and adds simultaneous Continuous Stimulation to the Vibration after a 1/2 second delay.

PARTS & FUNCTIONS

Buttons #1 & #2 (H₂O 1830 PLUS only) - Pressing the Jump Button (#1) makes the collar give a 'Jump' Stimulation, making the intensity level instantly "jump" to a user-programmed intensity level (see *page 19*). Pressing the Rise Button (#2) makes the collar give a stimulation that gradually increases in intensity level the longer the Rise Button is pressed.

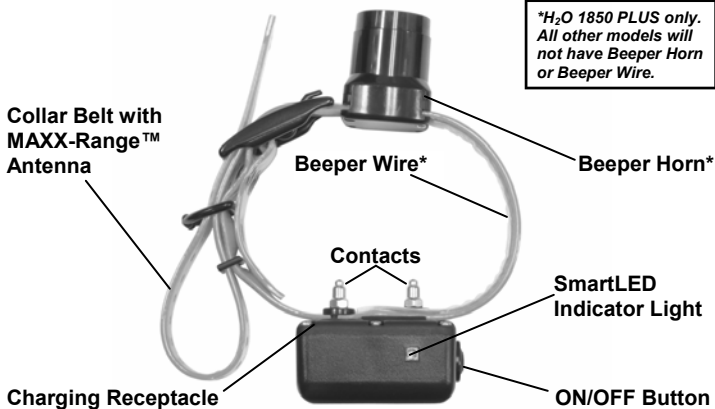
Buttons #1 & #2 (H₂O 1850 PLUS only) - Pressing the Locate Button (#1) makes the Beeper Horn emit a loud beep. Pressing the Run/Point Button (#2) activates the Run & Point mode on the Collar Receiver. Pressing the button again changes the mode to the Point Only mode. Pressing the Locate Button cancels the Run/Point modes.

Battery Charging Receptacles - The battery charging receptacles are located on the side of the Transmitter and on the side of the Collar Receiver facing the dog's neck. After charging, always close the jack with the rubber plug to prevent foreign particles from getting inside the unit.

NOTE

The unit is still waterproof even if water gets into the charging receptacle. However, if water should get in, we recommend rinsing out the charging receptacle and allowing it to dry, especially after use in salt water. This will prevent premature corrosion in the metal pins inside that make contact with the charger plug.

PARTS & FUNCTIONS



Collar Receiver

ON/OFF Button - Turns the Collar Receiver unit ON and OFF (see page 13).

Collar SmartLED Indicator Light - When the Collar Receiver is turned on, the SmartLED light will flash *green* once every two seconds if the rechargeable battery has 51% to 100% charge left and flash *red* once every two seconds if it has 21% to 50% charge left. The SmartLED light changes to a double *red* flash when the battery needs charging. The SmartLED light stays lit *red* while plugged into the charger and turns *green* when charging is complete.

Contacts - Contacts should fit snugly against the dog's neck to ensure good contact with the skin. For more information on the proper fit of the collar, see page 17.

PARTS & FUNCTIONS

Beeper Horn (H₂O 1850 PLUS only) - The Beeper Horn is attached to the collar belt. It will emit a loud tone audible from up to 450 yards away.

Beeper Wire (H₂O 1850 PLUS only) - The Beeper Wire provides power and communication from the Collar Receiver Unit to the Beeper Horn.

Collar Belt with MAXX-Range™ Antenna - The embedded MAXX-Range™ Antenna is woven into the collar belt and runs along the entire length of the belt, providing the range of an external antenna without the drawback of sticking out from your dog. Because it wraps around the neck along with the collar belt, the MAXX-Range Antenna provides 360° degrees of signal reception and is not blocked by your dog's body, regardless of which direction your dog is facing.

CAUTION

If the collar belt is too long, we recommend looping the excess collar belt back around through the buckle. We DO NOT recommend cutting the collar belt. Cutting the collar belt can drastically reduce the range of your collar unit. However, the collar belt can be cut up to about 3 inches without affecting the range too much.

Transmitter and Collar Unit Specifications

Unit	Dimensions	Weight
Transmitter	4 1/2" x 2 1/8" x 1"	4.2 oz.
Collar Receiver	2 5/8" x 2" x 1 1/2"	8.2 oz. (with belt)
		9.6 oz. (with beeper belt)

SmartLED

H₂O 1800 PLUS Series units are equipped with the SmartLED battery status system. The SmartLED system lets you know when the unit is charging and when the charging is complete. It also gives you a status on how much charge is remaining in the battery during use, when it needs charging, and when the batteries will need to be replaced.

Action	LED COLOR/ PATTERN	Status
Charging	<i>Red</i>	Charging
	<i>Green</i>	Charging complete
	Long <i>Red</i> blink every other second	Charging error*
While Unit is On	Flashing <i>Green</i>	51%-100% charge left
	Flashing <i>Red</i>	21%-50% charge left
	<i>Red</i> double flash or rapid flash	Battery charge is low and requires charging soon

***Charging Error** - If the SmartLED has a long blink every other second while charging, the rechargeable battery pack may need to be replaced. New batteries may also initially give an error light. Contact D.T. Systems if the problem persists after a few charging sessions.

NOTE

Earlier H₂O models do not have the SmartLED system. These models are still compatible with your unit, but their LED light will not indicate charging and battery life status.

CHARGING THE BATTERIES

All **H₂O PLUS Series**™ units are equipped with rechargeable Nickel Metal Hydride (NiMH) batteries, which are not memory sensitive and do not require depletion before recharging. Although batteries come partially charged from the factory, it is recommended that they are given a full charge (about 12 hours) before initial use.

Battery Charging Procedure

1. Make sure the unit is off.
2. Plug the charger into a standard electrical outlet.
3. Connect the splitter cable to the charger and plug the ends into the appropriate units (small end in transmitter, large end in collar). The SmartLED should light solid *red* while charging.
4. Charging is complete when the SmartLED turns *green* (may take up to 12 hours).
5. When charging is complete, disconnect the battery charging cables from the receptacles, securely replace the rubber battery receptacle covers, and test unit.



WARNING: DO NOT CHARGE WHILE UNIT IS WET!

NOTE

Rechargeable batteries typically last about 2-5 years on average depending on use and care. Keep batteries away from flammable substances. See *page 20* for more information on battery maintenance.

TURNING ON AND OFF

The Transmitter is always in a permanent sleep state. It is only ON when a button is being pressed and does not need to be turned off by the user.

Turning the Collar Unit ON:

Press and hold the ON/OFF button. The SmartLED Indicator will light solid *red* for one second. Release the button when the SmartLED begins to flash. The unit is now ON, and the SmartLED will flash approximately every two seconds.

Turning the Collar Unit OFF:

Press and hold the ON/OFF button. The SmartLED Indicator will light solid *red* for one second. Release the button when the SmartLED begins to flash. The unit is now OFF, and the SmartLED will no longer flash.

NOTE

If the SmartLED on the Transmitter flashes *red* rapidly after any button is pressed, or if the SmartLED on the Collar Unit double-flashes *red* every other second while ON, the unit will need to be recharged. If this happens soon after a full charging session, the rechargeable batteries may need to be replaced.

TESTING

NOTE: Before testing, make sure that both units are fully charged and the power to the Collar Receiver is “ON”.

To Test the Electronic Stimulation:

- A) Place the tester firmly on the contacts of the Collar Receiver.
- B) Set the intensity (note - an intensity level setting of 4 or less might not be enough to light the tester).
- C) Push the ‘NICK’ or ‘CONT’ button.
- D) The tester light will quickly flash once when the Nick button is pushed and light repeatedly when the Continuous Stimulation button is pushed (the test light will be brighter at higher intensity levels).



To Test the Vibration: (H₂O 1820 PLUS only)

- A) Press the button on the left side of the transmitter (Vibrate button) and the collar unit will vibrate only.
- B) Press the button on the right side of the transmitter (Vib.+Stim. Button) and the unit will vibrate only for 1/2 a second. The tester will then light while vibrating at the same time.

To Test the Jump: (H₂O 1830 PLUS only)

- A) Press the button on the left side of the transmitter (Jump button) and test light brightness will reflect the user-programmed Jump level (see page 19).
- B) The intensity level will return to its original setting when the Jump button is released.

TESTING

To Test the Rise:

(H₂O 1830 PLUS only)

- A) The Rise feature will gradually increase the intensity level starting from the level set on your dial. To see a greater range of intensity change, set the intensity dial to a lower level.
- B) Press and hold the button on the right side of the transmitter (Rise button) and the test light will get brighter as the button is held.

To Test the Beeper:

(H₂O 1850 PLUS only)

- A) Press the button located on the left side of the transmitter (Locate button). The collar will beep any time this button is pressed.
- B) Press the button on the right side of the transmitter (Run/Point button) to activate the Run & Point mode. Press the button again to change to Point Only mode. In the Run & Point mode, the collar will beep every 4-5 seconds while shaking the collar unit (simulating a dog on the run), and every 1-2 seconds when keeping the collar unit motionless (simulating your dog on point). In the Point only mode, the collar will beep only when the collar unit remains motionless.
- C) Press the 'Locate' button to cancel these modes.

NOTE: If the collar unit is not responding to any signals from the transmitter, the collar may need to be reprogrammed to the transmitter (see *page 16*).

PROGRAMMING THE COLLAR

When adding an “Add-On” collar, the collar will need to be programmed to the transmitter. If your current collar unit is not responding to the transmitter, it may also need to be reprogrammed to the transmitter.

1. Select the desired Collar Selecting Switch position on the transmitter.
2. Press and hold the power button on the collar like the collar unit is being turned ON.
3. The SmartLED inside the Collar Receiver will light up solid for about 1 second, followed by several flashes. Do not let go of the button during this step.
4. Continue to hold the button until the SmartLED stays on solid. The Collar Receiver is now in the Code Running Mode (the SmartLED will stay lit for approximately 8 seconds while it is in this mode).
5. Release the Collar Receiver button and press the NICK and CONT buttons simultaneously while it is in the Code Running Mode.
6. When the LED light blinks 3 times, the Collar ID is programmed and the Collar Receiver is now ON.

NOTE – Do not release the button on the Collar Receiver until after the SmartLED stops flashing and stays on solid or the Collar Receiver will not go into the Code Running Mode. The NICK and CONT buttons must be pressed simultaneously while the SmartLED is lit solid or the Collar Receiver will not be programmed.

PROPERLY FITTING THE COLLAR

NOTE: Proper collar tightness and position are very important to insure safe and consistent collar use.



All electronic collars need to be very snug around the dog's neck to work properly. They must be just tight enough to allow the "contacts" or electrodes to make good contact on your dog's skin. If the collar is too loose, the stimulation may not work properly because good/consistent skin contact is not being achieved. This can directly affect the performance of the collar unit and whether or not the dog will receive the stimulation. Always check for good contact to the skin if it appears that your dog is not responding to the stimulation. A loose collar can also result in skin irritations from moving or rubbing too much against your dog's neck while they are running or training. A proper fit will help prevent this from occurring.

- Place the collar unit high and tight on your dog's neck with the collar receiver box centered below the neck. Placing it at the wider base of the neck can let it travel up to the narrower part of the neck while your dog is moving, loosening as it goes.
- It should be tight enough to fit two fingers between the collar belt and your dog's neck, but not tight enough to restrict your dog's breathing.

SETTING THE INTENSITY LEVEL

It is very important to set the correct intensity level on your H₂O *PLUS* Training System before beginning your training sessions to provide the proper level of stimulation without over-stimulating your dog.

To do this, place the Intensity Selection dial so that the system is set on Level 1. Turn on the Collar and then fit it properly around your dog's neck. Press either the 'NICK' or the 'CONT' Button and check for a reaction. Indications of your dog feeling the stimulation include outward signs of discomfort or confusion on it's face, ears perking up, changes in tail movements, etc. Increase the Intensity Level in increments of one until the dog feels the stimulation. At this point, increase the Intensity Level by one or two. This should be your dog's ideal training level. **(Note: Some dogs may require more or less stimulation depending upon their individual temperament and/or size.)**

Using the Rise Stimulation: (H₂O 1830 *PLUS* only)

The Rise function will gradually increase your current intensity level up to the maximum intensity level (level 16) while the rise button is being pressed. The intensity level will return to its original setting when the button is released. This can essentially let your dog determine the correct intensity level for any situation by letting him choose which level to respond to once it rises to that level.

CAUTION - Do not press and hold the Rise button unless you can see your dog's actions/reactions.

SETTING THE INTENSITY LEVEL

Jump stimulation is a great feature when regularly using two different stimulation levels in training. It is also a great safety tool for emergency situations when your dog is excited and cannot feel or ignores the normal intensity level. Pressing the Jump button directly rather than increasing the intensity level manually will save precious time during these situations when your dog may be heading towards imminent danger.

Setting the Jump Stimulation Level: **(H₂O 1830 PLUS only)**

1. Set the intensity level to your desired Jump level.
2. On the transmitter, press and hold buttons #1 and #2 ('Jump' and 'Rise' buttons) simultaneously.
3. When you see the LED flashing, release both buttons. The number of times the LED light flashes represents the newly programmed Jump Stimulation level.

The Jump intensity setting will stay at this level until a different Jump level is programmed. Changing your normal intensity level will not affect the Jump setting. When applying the Jump stimulation, the intensity level will return to its normal setting when the Jump button is released.

CAUTION

To avoid accidentally stimulating your dog, please make sure that the collar is NOT on the dog *while setting the jump level*. If the two buttons are not pushed at the EXACT same time, you will run the risk of emitting a stimulation.

MAINTENANCE

It is very important to periodically clean your **H₂O PLUS Series™** systems for maximum performance. Regular cleaning will also lengthen the life of your unit.

- Clean the collar box, belt and buckle with lukewarm water and a mild anti-bacterial soap.
- Thoroughly clean the space between the electrodes and the belt.
- Always allow the entire unit to completely dry before charging/using.

NOTE

The Collar Unit should be rinsed with fresh, clean water after use in wet conditions, especially salt water.

Battery Maintenance

To get the maximum performance and life out of your rechargeable batteries:

- Remove the unit from the charger as soon as the SmartLED turns *green* during a charging session.
- It is recommended not to leave your unit charging for more than 12 hours at a time.

When storing your unit for extended periods of time:

- Do not store your unit with depleted batteries.
- Fully charge and test your unit about once a month.
- Do not store your unit in extreme temperatures.
- Store your unit in a dry environment.

CAUTION

Dispose of batteries properly by calling your local waste service.



IMPORTANT SAFETY NOTES

- Before training with this unit, your dog's health should be examined by a veterinarian.
- Do not use with aggressive-tempered dogs.
- Your **H₂O PLUS Series**™ collar is a very valuable tool if used correctly. It is extremely important that you completely understand all the functions of the collar and how to properly train with it before placing it on your dog.
- Test your system before placing the collar unit on your dog(s) to help prevent possible interruptions and inconsistencies during training and field time.
- **Never leave your dog unattended with the unit on.** Since no electronic device is perfect, there is a very slight possibility that your dog may receive an unintentional electric stimulation.
- **To prevent neck irritations, the collar should never be worn for more than 12 hours a day.** Changing the collar location on the dog's neck daily will also help prevent irritations. It is recommended to reposition the collar every 1-2 hours of use.
- It is important to keep the collar clean. Clean the electrodes regularly with a mild anti-bacterial soap.
- If an irritation is found, carefully wash the dog's neck with soap and water and then wipe the area with Hydrogen peroxide. Dry thoroughly and apply an antibiotic ointment. If condition persists beyond 48 hours, please consult a veterinarian.

WARRANTY

- D.T. Systems Premium Lifetime Warranty is the best warranty offered in the industry. This warranty is free to participating U.S. customers (a completed warranty registration card must be returned within 30 days of original purchase). This changes our normal one year parts and labor warranty to a limited lifetime warranty against manufacturing defects on parts and a one year warranty on labor.

How the Limited Lifetime Warranty works:

- To qualify for the Warranty you must fill out the warranty registration card which came with your system and mail it (with your original sales receipt) to D.T. Systems within 30 days of purchase.
- Your unit must be sent to D.T. Systems for all warranty issues.
- There is no charge for parts or labor for the first year on any of our lifetime warranty products.
- When the product's labor warranty expires after the first year, there will be a normal labor charge for any repair under the lifetime warranty program should your system be in need of service. Labor charges will vary depending on: 1) the system model and 2) the severity of the repair needed.
- When your unit is sent in for repairs, any defective part(s) that need replacement will be free during the lifetime warranty period.

What is covered:

D.T. Systems Premium Lifetime Warranty covers all parts to be free from manufacturing defects for as long as the unit is held by the original owner.

What is not covered:

- Rechargeable batteries have a one year warranty from the original purchase date and are not part of our lifetime warranty.
- Lost parts or parts that malfunction due to abuse, misuse, improper maintenance, or incorrect handling are not covered.
- Damage from dogs chewing or wear and tear from excessive field use is not covered.
- Our warranty does not cover the cost of shipping the unit to our repair center. Return ground shipping (inside the continental United States) to the customer is covered. However, expedited or special shipping is not covered, but available by request for an extra shipping fee. International shipping charges are not covered.

FCC/IC/CE COMPLIANCE

Your **H₂O 1800 PLUS Series™ Trainer** has been manufactured under complete compliance with Part 15 of the Federal Communication Commission (FCC) rules, Industry Canada (IC) Standard RSS-310, and Article 3 of the Directive 1999/5/EC. The complex internal structure of each product has been designed to operate within specific regulations of FCC specifications. Any changes or modifications not expressly approved by the manufacturer is a violation of these specifications and could void the user's authority to operate the equipment.

This device complies with Part 15 of the FCC rules subject to the following two conditions:

- 1. This device may not cause harmful interference*
- 2. This device must accept all interference received, including interference that may cause undesired operation.*

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.*

This Category II radiocommunication device complies with Industry Canada Standard RSS-310. 26.96-27.28.10mv.

Ce dispositif de radiocommunication de catégorie II respecte la norme CNR-310 d'Industrie Canada.

Declaration of Conformity (Directive 1999/5/EC)

*D.T. Systems, Inc. declares that the **H₂O 1800 PLUS Series™** products are in compliance with the essential requirements under Article 3 of the R&TTE Directive 1999/5/EC by application of the following standards:*

Article 3.1(a) - EN 60950-1

Article 3.1(b) - EN 301 489-1 V1.8.1, EN 301 489-3 V1.4.1

Article 3.2 - EN 300 220-1 V2.1.1, EN 300 220-2 V2.1.2





2872 Walnut Hill Lane
Dallas, Texas 75229

Tel: (214) 350-9446, (888) 588-8364

Fax: (214) 350-7847

Website: www.dtsystems.com

E-mail: customerservice@dtsystems.com