



**Invisible
Fence** Brand

Outdoor Shields® Plus Unit



Owner's Manual and Operating Guide

My Invisible Fence® Brand Dealer:

Name: _____

Phone: _____

InvisibleFence.com | 800-578-3647

Important Precautions

- Invisible Fence® Brand pet containment systems have contained over three million pets. However, there are some precautions you should take.
- Read and retain manuals: Read the entire Owner's Manual before using your new Outdoor Shields® Plus Solution.
- Adhere to all warnings and cautions contained in any Invisible Fence® Brand manual.



This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

⚠ WARNING indicates a hazardous situation which, if not avoided, could result in death or serious injury.

⚠ CAUTION used with the safety alert symbol, indicates a hazardous situation which, if not avoided, could result in minor or moderate injury

CAUTION used without the safety alert symbol, indicates a hazardous situation which, if not avoided, could result in harm to your pet.

NOTICE is used to address safe use practices not related to personal injury.

⚠ WARNING

- Not every pet can be trained to avoid the established boundary. Sometimes even a properly trained pet may cross the boundary. Therefore, Invisible Fence, Inc., as well as Invisible Fence® Distributors and Dealers, cannot guarantee the system will, in all cases, keep a customer's pet within the established boundary. Accordingly, if a customer has reason to believe that their pet may pose a danger to others, or harm itself, the customer should not rely solely upon the Invisible Fence® Brand pet containment system to keep the pet from crossing the boundary.
- Do not install, connect, or remove your system during a lightning storm. If the storm is close enough for you to hear thunder, it is close enough to create hazardous surges.

CAUTION

- Train your pet according to the instructions in the Invisible Fence Brand training manuals. Complete all steps before allowing your pet to run free. Do not become overly confident if your pet has become conditioned to the Invisible Fence Brand pet containment system sooner than expected.
- Your Invisible Fence Brand Dealer has professionally installed your pet containment system and ensured it is working properly. You will want to perform periodic maintenance checks to make sure the system is properly functioning for safe containment for your pet.
- Check the Invisible Fence Brand transmitter periodically to make sure it is operating properly. To do this, simply bring the Computer Collar Unit to the edge of the containment field to verify function.
- Do not attempt to service any Invisible Fence Brand equipment. Refer all service to your authorized Invisible Fence Brand Dealer. Only your authorized Invisible Fence Brand Dealer should make adjustments to your pet containment system.
- All Invisible Fence Brand pet containment systems are designed for domesticated animal use only. Never attempt to use this product for any purpose not specifically described in this manual.
- The Outdoor Shields Plus solution gives you control over the areas a pet or pets have access to outside your home. It is designed to work independently or to complement your Invisible Fence® Brand 800 Series and/or Boundary Plus® pet containment system. The Indoor Shields Plus transmitter is designed for outdoor use only. For information on or about Outdoor Shields® products, please contact your local Invisible Fence Brand dealer or visit us at www.invisiblefence.com. This device is not designed to operate as a containment transmitter.
- **Important:** To ensure your pet does not receive an unintended correction, make sure your pet is not wearing the Computer Collar unit when turning ON or adjusting the Outdoor Shields transmitter.

NOTICE

- If using the Boundary Wire option, use care when mowing, aerating, or trimming your lawn so as not to cut the loop wire.
- If you have any questions about any aspect of your Invisible Fence® Brand system, call your Invisible Fence® Brand dealer immediately.

Table of Contents

Important Precautions2

Components4

How the Systems Works4

Operating Guide5

 Power up the Outdoor Shields® transmitter5

 Adjust signal field range5

 Verify signal field range5

 Changing operating frequency5

 Checking for low battery.....5

Troubleshooting6

Battery Disposal7

Perchlorate Battery7

Important Recycling Advice7

Compliance.....7



How the System Works

Outdoor Shields® Transmitter

The transmitter is disguised as a rock and can be placed in your landscape or in areas you want to protect your pet from. It sends a signal field up to 10 feet in diameter or a 5 foot radius. Your pet wears a Computer Collar® Unit that detects areas you have protected and delivers a correction when your pet enters those areas.

The LCD display shows the signal field range, low battery and either 7K or 10K frequencies. The transmitter is powered by 4 alkaline D-batteries (not included). Under normal conditions, the batteries will operate the transmitter for up to one year. Check the LCD display every month to see if the Low Battery indicator is displayed.



The transmitter is weather proof but cannot be submersed in water.

Definition: A correction is a training term used to describe an action taken to discourage unwanted pet behavior. The Computer Collar Unit delivers a correction when your pet enters a protected area or crosses the boundary of an Invisible Fence® Brand system.

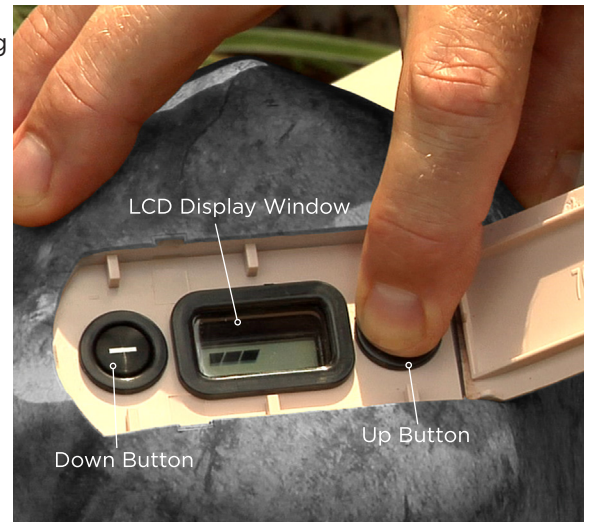
Operating Guide-Wireless

Important: To ensure your pet does not receive an unintended correction, make sure your pet is not wearing the Computer Collar® unit when turning ON or adjusting the Outdoor Shields® Plus transmitter.

1. Power up Outdoor Shields® Transmitter

- Locate the battery door on the bottom of the Outdoor Shields Plus transmitter. Remove the battery door by loosening the 4 Phillips head screws. Note: the screws are retained in the battery door lid.
- Place 4 “D” size alkaline batteries into the unit as illustrated inside the compartment.
- Ensure the o-ring is completely set in the slot and free of dirt.
- Replace the battery lid and tighten all 4 screws snug. A loose lid may allow moisture to enter the unit resulting in product failure.
- Turn the Outdoor Shields Plus transmitter upright and open the lid exposing the LCD display and range buttons.
- Press the up (+) button once to turn ON the Outdoor Shields Plus transmitter.

Figure 1:



2. Adjust signal field range

- Determine the desired location and the signal field range required. The signal field range can be set to a minimum radius of 1 foot (30 cm) and a maximum radius up to 5 feet (1.5 m).
- With the unit ON, press the RANGE UP (+) or the RANGE DOWN (-) buttons to increase or decrease the signal field range. Each segment of displayed bar represents approximately 1 foot (30 cm) radius of range.
- Once the range is set, place the Outdoor Shields Plus transmitter in the desired area.

3. Verify signal range

- Turn the Outdoor Shield Plus transmitter ON.
- Holding the Computer Collar® Unit, start outside the range and walk slowly towards the Outdoor Shields® transmitter. Do not touch the correction posts at this time.
- The Computer Collar Unit will beep as it approaches the outer range of the signal field width set in Step 2. The beeping will be followed by a correction.
- If the Computer Collar Unit fails to beep, see the troubleshooting chart found on page 9.
- Adjust range and/or relocate the Outdoor Shields Plus transmitter until desired area is protected.

4. Changing operating frequency (Dealer Use Only)

- Open the lid exposing the LCD display and buttons.
- Press and release the RANGE DOWN (-) button until no bars appear on the LCD.
- Press the (-) down button and hold it for 5 seconds until a black segment appears in the display.
- Once the black segment appears you have 5 seconds to change between 7K or 10K.
- Press only the (+) button to change between 7K or 10K.
- A black segment displayed by the (-) button = 10K; by the (+) button = 7K.
- Once you have selected either 7K or 10K the display will go blank after 5 seconds.
- You are now ready to adjust the range to the desired area.

4. Checking for low battery

- Open the lid exposing the LCD display and buttons.
- If the LCD display is flashing with all six black segments showing it is time to replace the batteries.
- After replacing the batteries, verify that the range for the signal field is set to the desired area.
- Check the LCD display every month to see if the Low Battery indicator is displayed.

Operating Guide: Wired

You can create a signal field using up to 100 feet of boundary wire. Use a wire that is rated for direct burial. The recommended direct burial wire can be purchased from your local Invisible Fence® Brand dealer. Visit www.invisiblefence.com to find an authorized dealer in your area.

Important: To ensure your pet does not receive an unintended correction, make sure your pet is not wearing the Computer Collar® unit when turning ON or adjusting the Outdoor Shields® Plus transmitter.

1. Preparation

Warning: Before installing the boundary wire, make sure that there are no buried power, telephone or other electrical cables in the area. Many underground cables carry high voltage and digging into them may lead to hazard from shock or electrocution. Have your local utility company mark your underground lines. Dial 811 from anywhere in the country and your call will be routed to your local One Call Center. For more information on “Know What’s Below” visit www.call811.com.

- When using the wire option it will be required to start at a minimum range setting of 2 segments. A setting below 2 segments will not produce a signal field great enough to be picked up by the Computer Collar Unit.
- The range will vary depending on the length of wire and shape of the layout.
- The wire must make a complete loop starting and ending at the Outdoor Shields Plus transmitter.
- It is important to test the system and make adjustments to your layout prior to burying the boundary wire.

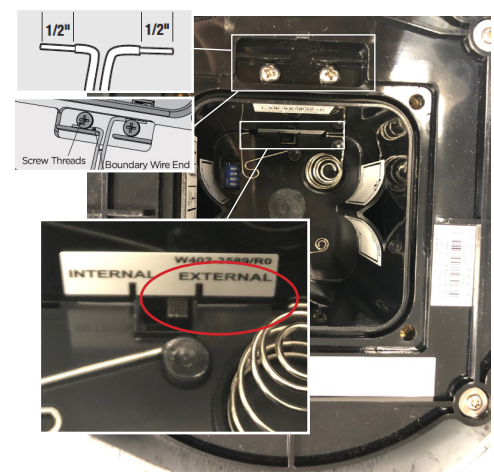
Figure 2:



2. Connect the Wires to the Outdoor Shields® Plus

- Locate the battery door on the bottom of the Outdoor Shields Plus transmitter. Remove the battery door by loosening the 4 Phillips head screws. Note: the screws are retained in the battery door lid.
- Locate the switch inside the battery compartment labeled “INTERNAL/EXTERNAL”. This switch allows the Outdoor Shields® Plus to operate as a **wireless (INTERNAL)** or **wired (EXTERNAL)** unit. Move the switch to the **EXTERNAL** position. (Figure 3)
- Strip ½ inch of insulation from each end of the boundary wire. Bend the ends to form a 90 degree angle.
- Loosen the 2 Phillips head wire connection screws adjacent to the battery compartment and insert the boundary wire as shown in Figure 3. Once in place, tighten each screw. Make sure the bare wires do not touch each other.
- Place the 4 “D” size alkaline batteries into the unit as illustrated inside the compartment.
- Ensure the o-ring is completely in the slot and free of dirt. Replace the battery lid and tighten all 4 screws snug. Ensure wires do not interfere with the fit of the battery compartment lid. A poorly fitted lid may cause moisture to enter the unit resulting in product failure.
- Position the Outdoor Shields Plus unit in the desired location.

Figure 3:





Operating Guide: Wired Continued

3. Test the Signal Field

- Start with the range set to 2 segments and adjust the range up to 6 segments to get your desired coverage. Press and release the RANGE UP (+) button 2 times to start.
- Holding the Computer Collar® Unit at the approximate height of your pet's neck, start outside the signal field and walk slowly towards the boundary wire. Do not touch the correction posts at this time.
- The Computer Collar Unit will beep as it approaches the outer range of the signal field. The beeping will be followed by a correction.
- If the Computer Collar Unit fails to beep, see the Troubleshooting chart found on page 9.

4. Install the Boundary Wire

- The boundary wire may be buried 1 to 3 inches deep or held in place with landscape staples. Landscape staples are recommended only if the installation area is not one that will require frequent lawn care.
- Landscape staples can be purchased from your local Invisible Fence® Brand dealer. Visit www.invisiblefence.com to find an authorized dealer in your area.

Operating Guide: Multi-Pet & Rate Feature

Multi-Pet

Your Outdoor Shields® Plus solution and Computer Collar® Units allows you to set “Different Rules for Different Pets”. All Outdoor Shields® Plus transmitters and Computer Collar Units are preset to operate on Channel A. In most homes this setting is usually sufficient as long as all pets are required to avoid the same areas. In some multi-pet homes it may be desired to allow one pet access to an area while denying access to another.

When set to Channel A, Outdoor Shields® Plus denies access to pets wearing a Computer Collar Unit programmed to Channel A.

When set to Channel B, Outdoor Shields Plus denies access to pets wearing a Computer Collar Unit programmed to Channel B.

When set to Channels A & B, Outdoor Shields Plus denies access to all pets wearing a Computer Collar Unit.

Changing the Channel Setting on the Outdoor Shields® Plus Transmitter

- Remove the battery door by loosening the 4 Phillips head screws.
- Remove the 4 “D” size alkaline batteries if you had already placed them inside the unit.
- Locate the 4 position dip switch inside the battery compartment. The first 2 positions of this switch allow the Outdoor Shields Plus to produce one of 3 signal types.
- The label inside the battery compartment illustrates the positions required to select Channel A, Channel B or Channels A & B. (Figure 4)
- Place the 4 “D” size alkaline batteries into the unit as illustrated inside the compartment.
- Ensure the o-ring is completely in the slot and free of dirt. Replace the battery lid and tighten all 4 screws snug. Ensure wires, if installed, do not interfere with the fit of the battery compartment lid. A poorly fitted lid may cause moisture to enter the unit resulting in product failure.

Figure 4:

Chnl	1	2	Rate	3	4
A	↓	↓	Slow	↓	↓
B	↓	↑	↑	↓	↑
A&B	↑	↑	↓	↑	↓
US Patents: 7046152, 7068174, 7117822 Patents Pending			Fast	↑	↑

Contact your local Invisible Fence® Brand dealer about options available for changing the Channel setting in your Computer Collar® Units. Visit www.invisiblefence.com to find an authorized dealer in your area.

Rate Feature

Your Outdoor Shields Plus solution also allows you to select 1 of 4 signal field transmission rates. This feature is designed to extend battery life and to allow overlapping signal fields. However, the transmission rate has a direct affect on the reaction time of the Computer Collar Unit.

All Outdoor Shields Plus transmitters are preset to the Slow Rate setting. This setting provides the slowest Computer Collar Unit reaction time while conserving the most energy. For most situations this setting is sufficient. Expected battery life should be 6+ months at this setting.

Setting the Rate to Fast provides the fastest Computer Collar Unit reaction time while consuming the most energy. This selection is the best choice when training a pet to a new Shields® area since it provides the sharpest boundary edge. Expected battery life should be 3+ months at this setting.

Changing the Channel Setting on the Outdoor Shields Plus Transmitter

- Remove the battery door by loosening the 4 Phillips head screws.
- Remove the 4 “D” size alkaline batteries if you had already placed them inside the unit.
- Locate the 4 position dip switch inside the battery compartment. The last 2 positions of this switch control the Rate setting (see Figure 4).
- The label inside the battery compartment illustrates the positions required to select the Slow through Fast settings.
- Place the 4 “D” size alkaline batteries into the unit as illustrated inside the compartment.
- Ensure the o-ring is completely in the slot and free of dirt. Replace the battery lid and tighten all 4 screws snug. Ensure wires, if installed, do not interfere with the fit of the battery compartment lid. A poorly fitted lid may cause moisture to enter the unit resulting in product failure.

Troubleshooting

NO SEGMENTS APPEAR ON THE LCD DISPLAY

- Press the RANGE UP (+) button.
 - Check/replace the batteries in the Outdoor Shields® Plus transmitter – See Step 4 on page 5 (Checking for low battery).
-

OUTDOOR SHIELDS® PLUS TRANSMITTER DOES NOT APPEAR TO WORK

- Check/replace the Power Cap® Battery in the Computer Collar® Unit - Refer to your Computer Collar Unit owner's manual.
 - Check/replace the batteries in the Outdoor Shields Plus transmitter – See Step 4 on page 5 (Checking for low battery).
 - Increase signal field range – See Step 2 on page 5 (Adjust signal field range).
 - Ensure the INTERNAL/EXTERNAL switch is in the correct position. Select INTERNAL when operating wireless and EXTERNAL when operating a wired loop.
 - If using the wired option, check to ensure the wire is connected to the transmitter, the bare wires are not touching each other at the terminal and there are no breaks in the wire – See Step 2 on page 6 (Connect the wires to the Outdoor Shields Plus).
 - Check Computer Collar Unit fit to ensure posts have direct contact.
 - Ensure the Computer Collar Unit is set to the same 7K or 10K frequency as the Outdoor Shields Plus transmitter - See Step 5 on page 5 (Changing operating frequency)..
-

RANGE IS TOO LOW OR TOO HIGH

- Check for low battery indicator on the Outdoor Shields® transmitter - if indicator light is flashing, replace the 4 alkaline D batteries (Not included)
 - Adjust the Outdoor Shields Plus transmitter to increase/decrease signal field range. See Step 2 on page 5 (Adjust Signal Field Range).
 - Metal objects may distort the signal field. Consider alternate location for the Outdoor Shields Plus transmitter.
-

COMPUTER COLLAR® UNIT DOES NOT SEEM TO DETER PET

- Check/replace the Power Cap Battery in the Computer Collar unit.
 - Adjust the Outdoor Shields® Plus transmitter to increase or decrease the signal field range – See Step 2 on page 5 (Adjust signal field range).
 - Check the fit of the Computer Collar® Unit on your pet's neck – Refer to your Computer Collar Unit owner's manual.
 - Ensure correction post covers are removed from the Computer Collar Unit after training.
-

Need additional help? Contact your local Invisible Fence® Brand dealer. Call **1-800-578-3647** or visit **www.InvisibleFence.com** to find your local dealer.

Battery Disposal

Separate collection of spent batteries is required in many regions; check the regulations in your area before discarding spent batteries. The Computer Collar® Unit operates on one (1) Lithium (Li-MnO₂) battery with a 3 Volt, 160 mAh capacity, replace only with equivalent battery that may be obtained from your Invisible Fence® Brand Dealer. The Transmitter operates on 4 Alkaline-Manganese Dioxide (Zn/MnO₂) batteries with a 1.5 Volt, 12,000mAh capacity.

Perchlorate Battery

Perchlorate Material – special handling may apply. See www.dtsc.ca.gov/hazardouswaste/perchlorate.

Important Recycling Advice

Please respect the Waste Electrical and Electronic Equipment regulations in your country. This equipment must be recycled. If you no longer require this equipment, do not place it in the normal municipal waste system. Please return it to where it was purchased so it can be placed in our recycling system. If this is not possible, please contact your Invisible Fence® Brand Dealer.

Compliance

US and Canada

FCC ID: KE3-3001054

IC: 2721A-3001054

This device complies with Industry Canada rules. 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.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. Cet appareil est conforme à la partie 15 des règles FCC. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Modification or changes to this equipment not expressly approved by Radio Systems Corporation® may 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 specific installation. If interference does occur 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 the Computer Collar unit.
- Connect the equipment to an outlet on a circuit different from that to which the Computer Collar unit is connected.
- Consult the dealer, or an experienced radio/TV technician for help.

This Class B digital apparatus complies with Canadian RSS-310.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

European Union

Radio Systems Corporation declares under its own responsibility, that the following product(s) is (are) in compliance with the essential requirements under article 3 of the RED (2014/53/EU) and the RoHS 2 Directive (EU) 2015/863. Unauthorised changes or modifications to the equipment that are not approved by Radio Systems Corporation may violate EU RED regulations, could void the user's authority to operate the equipment, and will void the warranty. Hereby, Radio Systems Corporation, declares that this part is in compliance with the essential requirements and other relevant provisions.



800-578-3647 (USA)
(865) 777-5404 (International)
400-1207/6
©2019 Radio Systems Corporation®
All rights reserved.

Protected by Patents:
U.S. #: 7,046,152, 7,068,174, 7,117,822, 7,204,204,
7,278,376, 7,495,570, 8,342,135 and 8,430,064
Canada: #2169261
U.K.: #0714235, #0720780
Ireland: #0714235, #0720780,
France: #0720780, #0714235
Germany: #0714235, #0720780