

**Super PRO Ranger 5100**  
**e-collar trainer**  
***Owner's Manual***



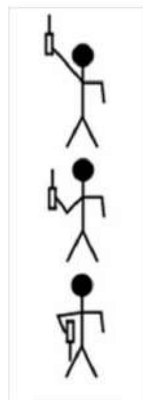
**IMPORTANT NOTE:**

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, phone number, and email information).

**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**

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## INTRODUCTION

Congratulations, and thank you for purchasing our **Super Pro Ranger 5100** Training Collar with “Add-On” capability, allowing the unit to expand up to an 4-dog unit.

The **SPR 5100** features an MAXX -Range 360 antenna technology to ensure positive FM signal reception, no matter the terrain.

The **SPR5100** also boasts full waterproof capabilities of the Collar and the Transmitter.

The Remote & Collar units have rechargeable Li-Poly batteries with our SmartLED light that lets you know when charging is complete and how much charge is left during use.

The **SPR5100** also features fully adjustable instant (Low-Med-High) stimulation buttons via simple programming options.

The new **SPR5100** is the result of over 40 years of experience researching, producing, and field testing the best e-collars in the business.

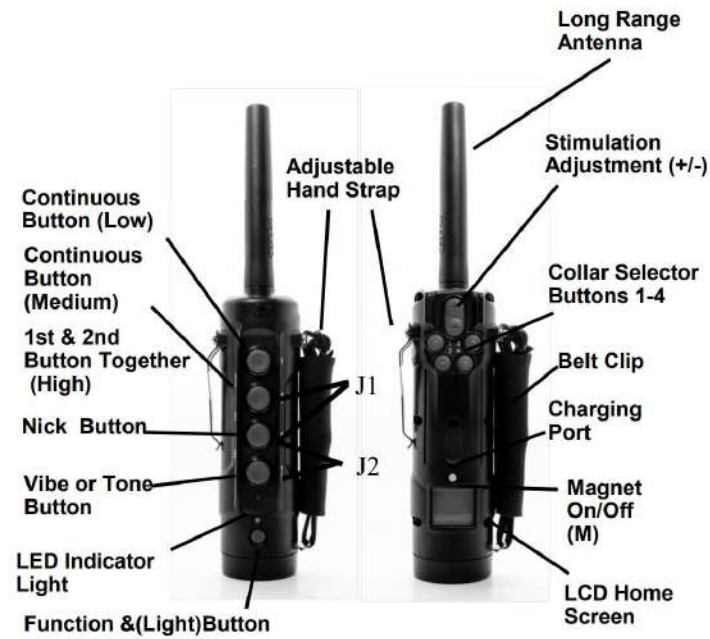
## PACKAGE CONTENTS

- Transmitter w/ Long Range Antenna & Hand Strap
- Collar Receiver
- Rechargeable Li-Poly Batteries in both (factory installed)
- Battery Charger
- Test Light
- Owners Manual

## MODEL FEATURES

- A MAXX-Range™ 360 internal collar antenna
- Patented quick adjust hand strap
- Belt buckle clip
- 24 levels of stimulation (Gentle Touch)
- Nick Stimulation (1/2 Second stim)
- Continuous Stimulation (up to 8 seconds while pressing)
- "Low-Med-High" continuous stimulation options
- 2-Jump Options (Jump 1 & Jump 2)
- Vibration Assist Technology
- Audible (beeping) Tone
- 4-dog expandable with **SPR5100 Add-On collars**
- 100% Waterproof Collar and Remote
- SmartLED™ charging and battery life status indicator on Collar unit
- 3-4 Hour Quick Charge Lithium batteries (Remote/Collar)
- Magnetic ON/OFF activation switch for extreme durability

## TRANSMITTER PARTS & FUNCTIONS



### L-M-H Buttons

Low="C" (Top) but-

Medium="MC" button



High="HC" 1st & 2nd buttons pressed together

### **Transmitter Specifications**

Unit	Dimensions	Weight	Antenna
Transmitter	6.5" x 1 3/8"	9 oz	4"

## TRANSMITTER PARTS & FUNCTIONS

**Long Range Antenna** - Check that Antenna is securely fastened before each use. Hand tighten only. Do not overtighten to prevent damage.

**LED Indicator Light** - The LED lights while pressing any of the Transmitter buttons. The LED flashes rapidly after pressing a button if the battery is low.

**Stimulation Adjustment Button (+/-)** - This Up/Down button increases/decreases the stimulation level and can be set from levels 1-24. NOTE: The LCD screen will display the current numerical working level.

**Nick (N) Stimulation Button** - Pressing the button makes the collar emit a quick, split-second stimulation.

**Continuous (C) Stimulation Button** - Pressing the button emits a continuous stimulation while the button is being pressed (up to 8 second safety cutoff).

**Vibrate (V) Button** - Pressing this button makes the collar vibrate. NOTE: See pg. 8 for programming.

**Tone (T) Selection** - Pressing this button makes the collar Tone (or beep). NOTE: See pg. 8 for programming.

**Jump (J1 & J2) Buttons** - Jump is a programmable (Cont.) stimulation button. J1 & J2 can be set to different levels than the current working level. Jump 1=Middle 2 buttons Jump 2=Bottom 2 buttons NOTE: See pg. 8 for programming.

**C-MC-HC Buttons** - "C" is Continuous Stimulation. "MC" is Medium Continuous Stimulation. "HC" is High Continuous Stimulation. NOTE: See pg. 9 for Programming.

**Collar Selector Buttons** - Use the Numbered Collar Selector Buttons to select desired collar.



## **TRANSMITTER PARTS & FUNCTIONS**

### **Programming Tone and Vibration Buttons:**

To switch modes between Vibration or Tone: 1) Press and hold the Function (light) button first, then press and hold the "V/T" button for appx 5 seconds. 2) The LCD Screen will change to either "V" or "T".

3) Release the buttons & now the V/T button will be programmed to your selection and will show on the screen (V) or (T).

### **Programming Jump Buttons:**

Press & Hold desired Jump Button combination. While holding, increase or decrease to desired stimulation level then release. The corresponding J1 or J2 button set will now be programmed to the selected level.

**Switching Between Collars 1-4** - To switch collars (1-4) press the corresponding numbered collar switch button located on the back of the remote. The LCD Screen will show a number to indicate which collar is currently active.

**Transmitter Light Selection/Function Button** - Pressing the button makes the (Optional Accessory) Transmitter Flashlight Attachment come on. It is also used to program the Vibe and Tone.

**LCD Home Screen** - This will display the current functions of the system, which color collar is currently selected, the current e-Stim level, the current battery power, and the current programming selection:

**N**=Nick (1/2 Second e-Stim adj. levels 1-22)

**C**=Continuous (up to 8 second e-Stim adj. levels 1-24)

**V**=Vibrate (Factory set at 1 level, not adjustable)

**T**=Tone (Factory set at 1 level, not adjustable)

**J1 & J2** = Jump1 & Jump2 user programmable buttons



### Low-Med-High Continuous Programming

Your SPR 5100 includes our Continuous Low-Medium-High feature set. This enables you to select a stimulation level for your normal "Continuous" button, and with just the press of the "MC" button, you can immediately go up a level in stimulation to a "Medium" setting. Then by pressing 2 buttons simultaneously ( $HC = C + MC$ ), you can once again go up another level in stimulation.

For instance, if your normal ("C") Continuous button is set to Stimulation Level 1, you press the Top button and it will deliver Level 1 stimulation.

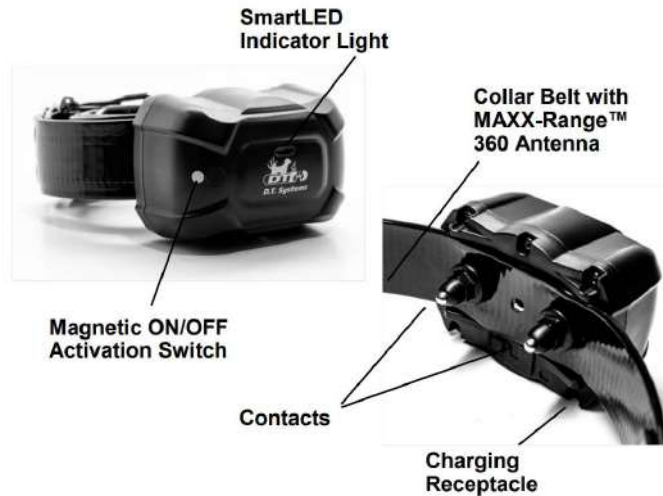
As long as you hold this button down (for up to 8-seconds) Level 1 Stimulation will be working.

If you want to go up one level instantly (with just the press of a button instead of adjusting the level Up with the stimulation adjustment), you can just press the "MC" button, which is equivalent to the Continuous level + 1. The Medium button will be automatically set to Level 2. Therefore you get a 1 Level stimulation increase by pressing the Medium button. Correspondingly, if you want to yet again increase the stimulation level by 1 more level, you can press the "C" button and the "MC" buttons simultaneously, and that will be the "High" feature ("HC") and will be automatically set to Level 3 Stimulation. This emulates a Low-Medium-High feature set.

**NOTE:** Default intensity levels will begin at 1, 4, 7, 10, 13, 16, 19, or 22.

**NOTE:** Stim level indicated on transmitter will be the same stim level for all additional collars.

## COLLAR UNIT PARTS & FUNCTIONS



### ***Collar Unit Specifications***

Unit	Dimensions	Weight
SPR5100	2 1/2" x 1 1/2" x 1 1/2"	5 oz. (with belt)

**Magnetic ON/OFF Activation Switch (M)** - Turns the Collar Receiver unit ON/OFF by using the Magnet Indicator on the Transmitter (see *page 14*).

**Collar SmartLED Indicator Light** - Shows charging status and battery life status (see *page 12*).

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

## COLLAR UNIT PARTS & FUNCTIONS

**Battery Charging Receptacle** - The charging cable plugs into the charging receptacle for recharging (located on the the collar receiver facing the dog's neck). After charging, always close the charging receptacle with the rubber plug to prevent foreign particles from getting inside the unit. **NOTE-ONLY USE THE SUPPLIED 5V CHARGER TO CHARGE**

**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.

**Collar Belt with MAXX-Range™ 360 Antenna** - The embedded MAXX-Range™ Antenna is woven into the collar belt and runs along the entire length of the belt, providing extended range without the drawback of an external antenna. 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 strap back around through the buckle. We DO NOT recommend cutting the collar belt. Cutting the collar belt too short 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.

## SmartLED

**SPR5100** collar 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 (collar only)	<i>Red</i>	Charging
	<i>Green</i>	Charging complete*
	Long <i>Red</i> blink every other second	Charging error**
While Unit is On (collar only)	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 Complete** - Once charging is complete, your unit will go into a trickle charge to prevent overcharging. However, it is recommended that you remove your unit from the charger as soon as charging is complete.

**\*\*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.

**Transmitter Battery Indicator** - The LED lights while pressing any of the Transmitter buttons. The LED flashes rapidly after pressing a button if the battery is low.



## CHARGING THE BATTERIES

The **SPR5100** collar unit is equipped with rechargeable Lithium 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 3-4 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 Jack Cable to the end of the charger and plug the end into the collar unit. The SmartLED should light solid *red* while charging.
4. Charging is complete when the SmartLED turns *green* (may take up to 3-4 hours).
5. When charging is complete, disconnect the battery charging cables from the receptacles, securely replace the rubber battery receptacle covers, and test unit (see *page 15*).

### **NOTE-ONLY USE THE SUPPLIED 5V CHARGER TO CHARGE**

**WARNING: DO NOT CHARGE IF UNIT IS WET!**

#### **NOTE**

Rechargeable Lithium batteries typically last about 2-3 years on average depending on use and care. Keep batteries away from flammable substances. See *page 19* for more information on battery maintenance.

## TURNING ON/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. If the Transmitter does not activate, make sure battery is fully charged and LED light on remote is green.

### **Turning the Collar Unit ON/OFF:**

Turning the Collar Unit ON and OFF uses the same procedure:

1. Hold the Transmitter Magnet Indicator (*M*) directly against the Magnetic Activation Switch (*M*) on the side of the Collar Unit.
2. The SmartLED Indicator will light solid for a second. Once you see the red LED light remove the magnet. The collar will vibrate and emit a tone to indicate it is now on and functioning. The Smart LED will be flashing either Red or Green indicating percentage of charge on the collar battery.

If the Collar Unit has been turned ON, the SmartLED will flash approximately every other second. If the Collar Unit has been turned OFF, the SmartLED will no longer be flashing.

**NOTE:** If the LED on the Transmitter flashes *red* rapidly after any button is pressed, the battery will need to be charged. 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 batteries in the Collar Unit may need to be replaced.

**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*).

## TESTING

**Before testing, make sure that both units are fully charged and the power to the Collar Receiver is "ON".**

### **To Test the Electronic Stimulation:**

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



## 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. Hold the Transmitter Magnet Indicator (M) directly against the Magnetic Activation Switch (M) on the side of the Collar Unit.
2. The SmartLED light inside the Collar Unit will begin flashing Red appxx 6 times. Hold the magnet there until the red light is lit solid.
3. Once the SmartLED light on the front of the collar stays lit on solid Red and emits a tone, it is now in the *Code Running “Programming Mode”* (the SmartLED light will stay lit for approximately 8 seconds while it is in this mode).
4. Press & Hold the Dog# (1-4) that you want the collar to be associated with FIRST, then Press & Hold the N (Nick) & C (Continuous) Buttons at the same time. Release when the collar emits a tone.
5. The collar LED light will blink and tone and turn OFF to indicate it is now programmed to your selected button.
6. Turn the unit back on and test that collar to the remote to make sure it is properly programmed to your desired corresponding collar number.

**NOTE – Do not move the Transmitter Magnet Indicator from the Collar Unit Magnetic Activation Switch until after the SmartLED stops flashing and stays on solid or the Collar Unit will not go into the *Code Running Mode*.**

## 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 **SPR5100** Training System before beginning your training sessions to provide the proper level of stimulation without over-stimulating your dog.

1. Place the Intensity Selection so that the system is set on Level 1.
2. Turn on the Collar Receiver and then fit it properly around your dog's neck.
3. Press the 'C' button and check for a reaction. Indications of your dog feeling the stimulation include confusion on it's face, ears perking up, changes in tail movements, etc.
4. If there are no signs of your dog feeling the stimulation, increase the Intensity Level in increments of one until your dog reacts to the stimulation.
5. 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.

## MAINTENANCE

It is very important to periodically clean your **SPR5100** system 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 4-5 hours at a time.

When storing your unit for extended periods of time:

- Do not store your Collar 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 **SPR5100** 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 **SPR5100** 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 **SPR** 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*





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

**FCC Caution FCC Interference Statement(Part 15.21)** Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

**IC Atatement**

1) Certification or verificati

This device complies with Industry Canada's licence-exempt RSS standard(s). Operation is subject to the following two conditions:

(1) This device may not cause interference; and (2) This device must accept any interferen including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. 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 t brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

## 후면 Key 기능

### 1. 단독 Key

	Key	SPR5100	SPR5200	SPR5300
1	1KEY	C	N	N
2	2KEY	MC	C	C
3	3KEY	N	V	V
4	4KEY	T or V	T	Loc & R/P
5	5KEY	Flash Light	Flash Light	Flash Light

"N" : Nick Stimulation

"C" : Continuous Stimulation(SPR5100은 Low Continuous Stimulation)

"V" : Vibration

"T" : Tone

"MC" : Medium Continuous Stimulation

"HC" : High Continuous Stimulation

"Loc" : Locate Mode

"R/P" : Run and Point Mode

### 2. Combo Key

	Key	SPR5100	SPR5200	SPR5300
1	1KEY + 2Key	HC	Jump1	Jump1
2	2KEY + 3Key	Jump1	Jump2	Jump2
3	3KEY + 4Key	Jump2	Jump3	Jump3