



Master Retriever 1100 e-collar
trainer
With SmartLED



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



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

FCC/IC/CE COMPLIANCE

Your **MR 1100 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 **MR 1100** 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



TABLE OF CONTENTS

• Table of Contents.....	3
• Introduction	5
• Package Contents.....	6
• Model Features	6
• Transmitter Parts & Functions.....	7
• Installing Transmitter 9V Battery	9
• Collar Unit Parts & Functions	10
• SmartLED	12
• Charging the Batteries	13
• Turning ON and OFF	14
• Testing	15
• Programming the Collar	16
• Properly Fitting the Collar.....	17
• Setting the Intensity Level	18
• Maintenance	19
• Important Safety Notes	20
• Warranty	21
• FCC/IC/CE Compliance	22
• Contact Information.....	24

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.

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 **Master Retriever 1100** 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.

INTRODUCTION

Congratulations, and thank you for purchasing our **Master Retriever 1100** Training Collar with "Add-On" capability, allowing the unit to expand up to a 3-dog unit.

The **Master Retriever 1100** features an 1,100 yard range made possible by our exclusive MAXX-Range 360 technology to ensure positive FM signal reception, no matter the terrain.

The **Master Retriever 1100** also boasts full waterproof capabilities of the Collar and the Transmitter.

The Collar unit has rechargeable NiMH batteries with our SmartLED light that lets you know when charging is complete and how much charge is left during use.

The Gentle Touch feature (with 16 levels of Nick and Continuous stimulation) easily adjusts at your fingertips and always ensures the proper setting for your dog's unique personality.

Our Vibration Assist lends a helping hand in the form of an audible vibration emitted from the collar to aid in training for a no-shock alternative stimulus.

The new **Master Retriever 1100** is the result of over 30 years of experience researching, producing, and field testing the best E-collars in the business.

PACKAGE CONTENTS

- Transmitter with Compact Antenna and Lanyard (9V battery not included)
- Collar Receiver with NiMH Battery (already installed)
- Battery Charger
- Triple-Jack Splitter/Adaptor Cable for charging
- Test Light
- Owner's and Training Manuals

MODEL FEATURES

- Small, Compact, Lightweight design
- 1,100 Yard range with MAXX-Range™ 360 internal collar antenna
- 16 levels of stimulation (Gentle Touch)
- Nick Stimulation
- Continuous Stimulation
- Vibration Assist™ Technology
- 3-dog expandable with **MR 1100 Add-On collars** (sold separately)
- Waterproof Collar with rechargeable NiMH battery
- SmartLED™ charging and battery life status indicator on Collar unit
- Waterproof Transmitter (9V battery not included)
- Camo battery cover on Transmitter
- Compact transmitter antenna design
- Magnetic ON/OFF activation

MAINTENANCE

It is very important to periodically clean your **MR 1100** 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 12 hours at a time.

When storing your unit for extended periods of time:

- Remove the 9V battery from the Transmitter.
- 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.



SETTING THE INTENSITY LEVEL

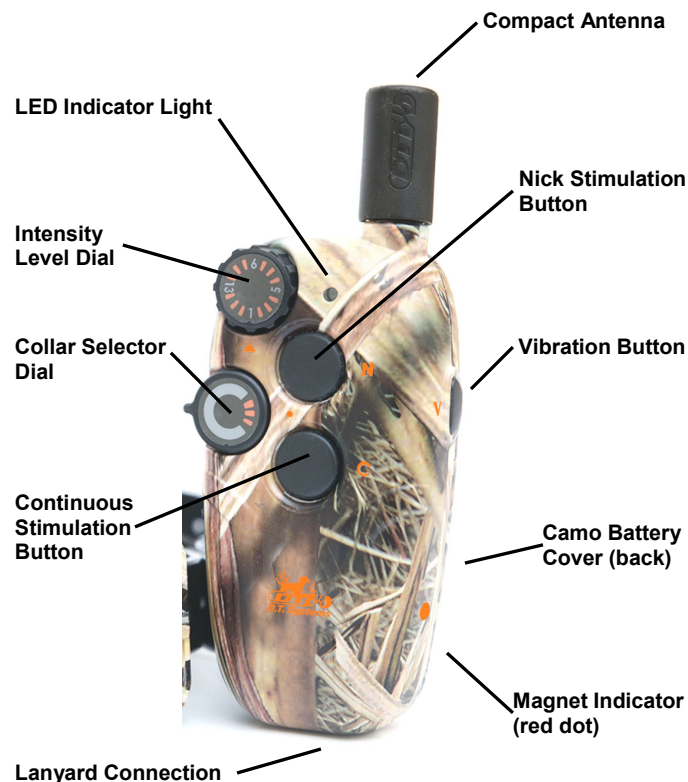
It is very important to set the correct intensity level on your **MR 1100** Training System before beginning your training sessions to provide the proper level of stimulation without over-stimulating your dog.

1. Place the Intensity Selection dial 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.

TRANSMITTER PARTS & FUNCTIONS



Transmitter Specifications

Unit	Dimensions	Weight
Transmitter	4 3/4" x 2" x 1 3/8"	2.5 oz. (without battery)

TRANSMITTER PARTS & FUNCTIONS

Compact 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.

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.



Intensity Selection Dial - The Intensity Selection Dial increases/decreases the stimulation level and can be set from levels 1-16 to find the exact stimulation level for your dog (see *page 18*).

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

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

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

Vibration (V) Button - Pressing the Vibration Button makes the collar vibrate only.

Magnet Indicator - Red dot on Transmitter indicating location of the magnet used to power Collar Unit ON/OFF.

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.

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 Selector Dial position on the transmitter.
2. Hold the Transmitter Magnet Indicator (red dot) directly against the Magnetic Activation Switch (small bump) on the side of the Collar Unit.
3. The SmartLED light inside the Collar Unit will light up solid for about 1 second, followed by 6 flashes. You must keep the Transmitter next to the Collar Unit during this time.
4. Continue to hold the Transmitter against the Collar Unit until the SmartLED light stays on solid. The Collar Unit is now in the *Code Running Mode* (the SmartLED light will stay lit for approximately 8 seconds while it is in this mode).
5. Remove the Transmitter from the Collar Unit and press the ‘N’ and ‘C’ buttons simultaneously while it is in the *Code Running Mode*.
6. When the SmartLED blinks 3 times, the Collar ID is programmed and the Collar Unit is now ON.

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*. You must press the ‘N’ and ‘C’ buttons simultaneously while the SmartLED is lit solid.

TRANSMITTER PARTS & FUNCTIONS

Lanyard Connection - Attachment point for lanyard.

Camo Battery Cover (Back of Transmitter) - Covers battery and battery compartment. Held by 2 small Phillips screws. Make sure the battery is inserted in the proper direction. Do not over-tighten the screws or you may crack the plastic.

INSTALLING TRANSMITTER 9V BATTERY

The **MR 1100** transmitter uses a 9-volt battery (not included). We recommend using a name-brand battery. The Transmitter may not operate properly with a generic brand battery.

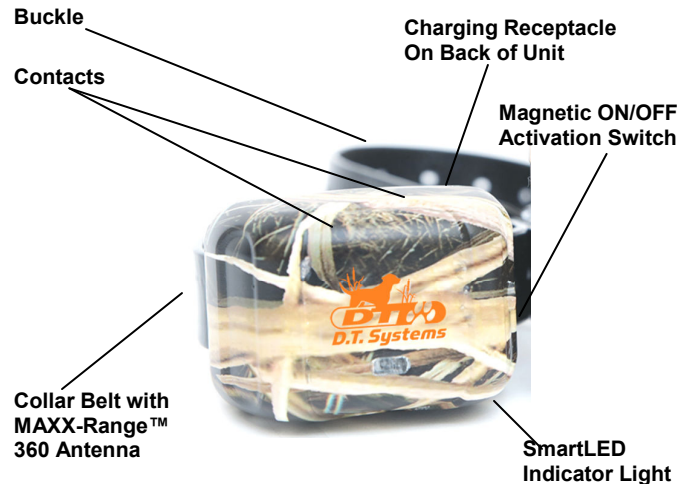
Battery Installation Procedure

1. *Make sure the Collar Unit is not on the dog.*
2. Remove the two screws holding the Battery Cover with a small Phillips screwdriver to remove the cover.
3. Remove the depleted battery.
4. Insert the new battery in the proper direction, paying attention to diagram in the battery compartment.
5. Make sure the rubber seal is properly in place and replace the Battery Cover and screws. Do not over-tighten the screws as it may crack the plastic.
6. Test unit (see *page 15*).



CAUTION - Remove battery when storing unit.

COLLAR UNIT PARTS & FUNCTIONS



Collar Unit Specifications

Unit	Dimensions	Weight
MR 1100	2 1/4" x 1 1/2" x 1 1/4"	4.7 oz. (with belt)

Magnetic ON/OFF Activation Switch (small bump) - 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.

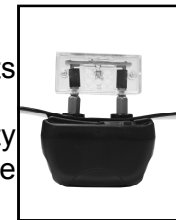
TESTING

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).

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).



To Test the Vibration:

1. Press V button on the transmitter and the collar unit will vibrate only.

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 you have a good battery installed.

Turning the Collar Unit ON/OFF:

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

1. Hold the Transmitter Magnet Indicator (*red dot*) directly against the Magnetic Activation Switch (*small bump*) on the side of the Collar Unit.
2. The SmartLED Indicator will light solid for a second and then start flashing. Remove the Transmitter from the Collar Unit when the SmartLED light begins to flash.

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 9V battery will need to be replaced. 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 in the Collar Unit may need to be replaced.

COLLAR UNIT PARTS & FUNCTIONS

Battery Charging Receptacles - The charger cables plug into the Charging Receptacle for recharging (located on the side of 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 - 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

MR 1100 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 **MR 1100** collar unit is 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 Triple-Jack Cable to the end of the charger and plug one of the ends into the collar unit. Up to 3 Collar Units can be charged simultaneously with the Triple-Jack Cable. 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 (see page 15).



WARNING: DO NOT CHARGE WHILE UNIT IS WET!

NOTE

Rechargeable batteries typically last about 3-5 years on average depending on use and care. Keep batteries away from flammable substances. See page 19 for more information on battery maintenance.