



d-control
600, 1000, 1600

*Electronic
training collar*

d-control
602, 1002, 1602

*Electronic
training collar –
a set for two dogs*

Service Instructions

Thank you for purchasing the product
DOGtrace™ d-control
from VNT electronics s.r.o., Czech Republic.

We would like to ask you for reading this manual carefully before using the unit
and keeping it for future use.

EC Declaration of Conformity **Guideline R&TTE 1999/5/CE**

The manufacturer: **VNT electronics s.r.o.** declares that the below mentioned product:
Electronic training collar DOGtrace™ d-control
complies to all Europe Council Guidelines, Under No. 1999/5/CE of 7. 4. 1999
and corresponds to the following standards:
ETSI EN 300 220, ETSI EN 301 489

CE

VNT electronics s.r.o. • NĚMČICE 23 • 561 18 NĚMČICE U ČESKÉ TŘEBOVÉ
Phone: +420 461 310 762 • Czech Republic • www.dogtrace.com

WARNING:

The person with a personal instrument to support heart activity (pacemaker, defibrillator)
must respect the relevant precautionary measures. The d-control emits a certain stationary
magnetic field (lower part of the remote controller and RF signals).
(Frequency= 869.525 MHz, maximum transmitted power = 500 mW).

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Introduction

Do you need to have your dog under instant control? Do you want to train and breed it easily, quickly, precisely, and efficiently? Electronic training system **DOGtrace™ d-control**, consisting of the transmitter and the collar, will help you train your dog with efficiency unattainable with other methods. The hand-held transmitter (similar to the remote controller controlling your TV set) makes it possible to give orders to a large distance. There are two sorts of order. A warning sound signal, a short alerting electronic pulse, and a series of correcting electronic pulses. It is possible to adjust the intensity of electronic pulses in a simple way. Electronic systems of the transmitter and collar use the state-of-the-art technology based on single-chip microprocessors and wireless communications. Thanks to the ergonomic design and low weight of the collar, it is possible to use it also for small breeds of dog.

Scope of delivery

- Collar (receiver) with hand strap (2x u d-control 602, 1002, 1602)
- Electrodes 12 mm and 17 mm (2x u d-control 602, 1002, 1602)
- Lithium battery CR2 3V (2x u d-control 602, 1002, 1602)
- 2 alkaline batteries LR6 1.5 V
- Neon test discharge lamp (2x u d-control 602, 1002, 1602)
- Remote controller (transmitter) with fastener
- Cord to hang the transmitter on the neck
- Service instructions and Certificate of Warranty
- DVD – How to train your dogs
- Briefcase

Optional accessories

- Dummy collars
- Varicoloured woven or plastic straps
- Spare electrodes
- Spare batteries
- Spare seals
- Spare screws

Product description

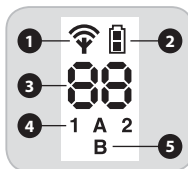
REMOTE CONTROLLER



COLLAR WITH THE STRAP



LCD PANEL



REMOTE CONTROLLER – ① Booster button, ② Button to generate short or permanent pulses, ③ Sound signal button, ④ Backlit LCD display, ⑤ Buttons to select correction pulse levels, ⑥ Power ON/OFF button, ⑦ Buttons to select Dog 1 or Dog 2.

COLLAR WITH THE STRAP – ① Woven strap, ② Electrodes, ③ LEDs, ④ Target.

LCD PANEL – ① Transmission indicator, ② Battery power indicator, ③ Indicator of preset level of correction pulses, ④ Dog 1 or Dog 2 selection, ⑤ Selection of short or long preset correction pulses.

Battery installation and replacement

INSTALLATION (REPLACEMENT) OF THE BATTERY IN THE RECEIVER (COLLAR)

- Remove 4 screws of the receiver housing cover plate with a cross-head screwdriver. Install the 3V lithium CR2 battery. Mind the correct polarity indicated on the receiver PCB with “+” symbol in the battery compartment (see the photo).
- A beep indicating correct installation of battery will sound.
- If you do not hear the beep after installation of the battery, remove it immediately. Check the polarity and try to install it again.
- Before putting the plate cover to its place make sure that the rubber seal is correctly seated in its slot. Tighten adequately the 4 screws on the cover plate of the receiver.

WARNING: Before replacing the battery, always turn off the receiver, take out the battery and use a metal object to short-circuit the battery contacts (e.g. using screwdriver, scissors, etc.).

Checking the battery power

To check the state of the transmitter battery, look at the LCD display:

- The battery is fully charged: The battery indicator is slowly flashing green when in on-state.
- Low battery: The battery indicator is blinking red when in on-state. Prepare a spare 3V lithium battery CR2 and follow the section “Installation of the battery in the receiver”.

Make sure that the receiver operates correctly.



Battery polarity symbol

INSTALLATION (REPLACEMENT) OF THE BATTERY IN THE REMOTE CONTROLLER

- Open the battery compartment cover on the rear side of the remote controller and insert 2 AA size LR6 alkaline batteries. Mind the correct polarity indicated in the battery compartment.
- Replace the battery compartment cover and fix with the screw.

CAUTION: Rechargeable batteries can be used to operate your remote controller, however, they do not provide sufficient voltage for correct indication of battery status check on LCD.

Checking the battery power

To check the state of the transmitter battery, look at the LCD display:



- The battery is fully charged: The symbol of battery is permanently lit on the LCD display in on-state.
- The battery is low: When the unit is on, the LCD indicates the drop in battery capacity and if the battery symbol is empty, prepare 2 spare LR6 batteries and follow the previous section "Installation of the battery in the remote controller".

Make sure that the remote controller works correctly.

CAUTION: Before replacing the battery, always turn off the remote controller, and after it is removed, use a metal object to short circuit the battery contacts.

Turning ON/OFF


TURNING THE REMOTE CONTROLLER ON/OFF

- **To turn on:** Press down for 1 second the  **On/Off** button on the remote controller. Turning on is indicated by lit LCD display.
- **To turn off:** Again, press down for 1 second the  **On/Off** button. Turning off is indicated by extinction of the LCD display.

TURNING THE RECEIVER (COLLAR) ON/OFF

The magnetic switching system located in the remote controller is used to turn the receiver (collar) on and off.

- **To turn on:** Touch the lower part of the remote controller for 1 second to the target on the receiver (see the Fig.). The receiver indicator will start flashing green and this indicates that the receiver is ready for use.
- **To turn off:** Again, touch the lower part of the remote controller for 1 second to the target on the receiver (see the Fig.). The LED indicator of the receiver will glow red. The receiver is turned off.

 **Caution:** To extend the battery life, it is necessary to turn off the receiver and transmitter whenever the training of your dog is finished!!! If you do not use the equipment for a long time, we recommend you to remove the batteries from it.


The situation when the receiver is turned on/off and when the transmitter is being matched with the receiver.



Programming (matching) of the remote controller and the receiver

Every remote controller has its own RF operational code. Programming of the remote controller with the receiver (collar) will be accomplished during the first use of the **DOGtrace™ d-control** or with a new remote controller or a receiver (when one or the other is lost). This operation will enable you to match your remote controller with the delivered receiver (collar).

IMPORTANT: Before programming is started (before the first use of your receiver or code rewriting), make sure that no one else uses his/her d-control or another product made by DOGtrace in your neighbourhood – your receiver could randomly receive the code from another remote controller and set to it. If this happens, program your receiver once again, using your remote controller.

- Turn on your transmitter.
- Select Dog 1 using the button on the transmitter.
- Touch the lower part of your remote controller to the target on your receiver (see the photo on page 8). The green LED will be steadily lit and after some 6 seconds, it will switch to the programming mode, indicated by continuous flashing of the red LED.
- Now take your transmitter away and press down the sound signal  button on your remote controller. The codes will be matched in this step and your receiver will produce a sound signal.
- Select Dog 2 using the button on the transmitter and proceed in the same way (it is applicable to the other collar for d-control 602, 1002, 1602 models).

REPROGRAMMING OF YOUR RECEIVER

The receiver can be programmed repeatedly without restraint using the same remote controller or another (see the section Programming (matching) of your remote controller and receiver).

TIP It is possible to program an unlimited number of receivers to one receiver, which is possible for common training of several dogs. It is possible to record two transmitters into one receiver which can be used by the instructor for instance, for potential correction of dressur.

How to use the remote controller

The **DOGtrace™ d-control** remoter controller is designed for interaction with two separate receivers independent of each other.

Button – **Sound signal**

When you press down the sound signal button, you will be able to send the sound signal to your receiver within a great distance. There is no time limit for this function: The buzzer will sound for as long as you are holding the pressed down button and the green LED on your receiver will be steadily lit. It will be indicated by the transmission symbol on the LCD display of your remote controller.

Button – **Short pulse or Permanent pulse – (Selection A/B)**

By pressing this button, you will send your dog a warning in the form of an electronic pulse transmitted by the two electrodes located in the receiving collar for a defined period of time. You can select if you want to use a pulse shorter than 1 second (regardless of how long you are pressing down the button). However, it is necessary to keep the button pressed for one second at least. The red LED on your receiver will glimpse.

Or you can select a long pulse that will last as long as you keep pressing the button, however, it **will be limited for 8 second at most**. The red LED on the receiver will glow steadily. This will be indicated by the transmission symbol on the LCD. You can select a short pulse (option A) or a continuous one (option B) by pressing the button to select dog 1 repeatedly; if the other collar is used, press repeatedly the button to select dog 2.

Button – **Booster (for the second selectable level of the correction pulse)**

By pressing down this button, you will send your dog a warning in the form of electronic pulses transmitted by the two electrodes located in the receiving collar, being generated all the time you are keeping the button pressed, however, with the limit of 8 seconds at most. The red LED on your receiver will be steadily lit.

The LCD display of remote controller will indicate the symbol of transmission along with the correction pulse value you selected. Program the level of Booster button by holding the pressed button for selecting Dog 1 until the LCD display starts flashing. Then, use the control

buttons to set the required   value of the correction pulse and confirm by another press of the button for selecting Dog 1.

Control buttons

These buttons are used for prompt setting of the intensity of pulses in the receiving collar. It is possible to set up 30 levels indicated by numbers 1–30 on the LCD display. When the correction pulse level setting is changed, the LCD display will be lit for 3 seconds. Level 0: no pulses. Level 1: weakest pulse. Level 30: strongest pulse.

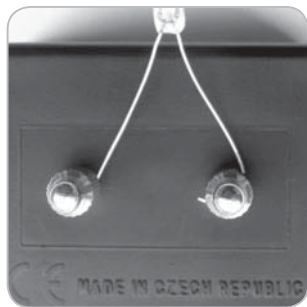
Control buttons

These buttons are designed for selection of your dog.

How to check that your DOGtrace™ d-control works correctly

You can check anytime whether your set works correctly. Before checking, make sure that the receiving collar is turned off.

- Connect the leads of the testing discharge lamp to both electrodes (loosen up the electrodes, insert the wires of the lamp under them so that they can be firmly held and then retighten the electrodes).
- Turn on your remote controller and receiver.
- Press down the button for sending a correction pulse. The testing discharge lamp will indicate the receipt of the signal by a blink. The alteration of the intensity of the pulses according to options 1 to 30 will be indicated by weaker or stronger light of the lamp.
- At this moment, the correction pulse is only indicated by the light of the lamp, i.e. the electrodes do not emit any correction pulses.



Picture showing test lamp attachment

For the best results

Training orders, you are sending to your dog, are transmitted from the transmitting unit to the collar equipped with the receiver by radio waves. The propagation of radio waves is influenced by a series of factors and under normal conditions the range of this unit is approximately 600–1600 metres (depending on geographic conditions and surroundings).

If you want to get the best results with your unit, adhere to the following instructions:

- To achieve the best range for your communication, hold your remote controller in your hand and do not cover its front part (the antenna is located there).
- If you hold your remote controller in front of you with your hand reached out, the range will get longer.
- Before using your training set, always check the batteries in the remote controller and in the collar and replace them if necessary.
- The power of batteries slightly falls down at temperatures below 0 °C. If it is possible, keep your remote controller warm (e.g. in your pocket) and take it out only for use.

SELECTION OF ELECTRODES

Every package contains readily two kinds of electrodes. If your dog is small and its fur is short, use short electrodes. If your dog is of medium built or big, use long electrodes.

ATTACHMENT OF THE COLLAR

The strap of the collar must be adjusted so that the electrodes can be in contact with the dog's skin. When the strap is too slack, the collar is likely to move and repeated friction may irritate your dog's skin. Moreover, in this case the contact with the skin surface is not reliable and the same holds true for proper operation of the collar.

We do not recommend you to leave your dog wearing the collar for several hours in the same place as it might cause skin irritation. If it is necessary for your dog to wear the collar for a long time, change its position on your dog's neck.

TIP

If you attach the receiver on your dog's neck laterally, you will extend the range of transmission.

We are starting with the training collar

- The trainer's elementary knowledge in training dogs is the prerequisite for using the training collar.
- If you do not have this knowledge, we recommend you to turn to a training centre, a cynology club, or a school for dogs where you will learn the basic communication with your dog.
- You can start using the collar for a 6-month-old puppy who has undergone the basic training "**SIT**", "**DOWN**", "**STAY**", or at least "**FIE**", "**YOU MUSTN'T**"...
- After a command is successfully executed, you should always reward or encourage your dog so that it can execute your commands with delight and its desire to make you happy could grow.
- You must not consider the executed command as the absolute obviousness and punish only disobedience – your dog would soon fall away from you.
- If you are not sure that your dog will obey you after recalling, start training, e.g. using a tracing dog-lead.
- **Your dog will have to get used to the collar**; let the dog wear the collar for a few days, but do not use it so that your pet does not discover the connection with its attachment and effects.
- Affirmative and efficient training requires some time: **do not hurry!**
- Select a well-known environment your dog is used to.
- **Select the right moment for pressing the button**; exactly at the moment when your dog is doing something forbidden.
- Do not hesitate to contact a professional trainer for more advice and in the event of any problems.
- We do not recommend you to use the collar for the dogs not being in good physical health state (e.g. heart problems, epilepsy, etc.) or having behaviour disorders.

Sound signal

It is only up to you how you will use it, which depends on the method you wish to train your dog. With the sound signal you can:

- Send a sound warning to your dog when it is doing something inappropriate.
- Catch the attention of your dog...
- Teach it that this signal means the command "To me", "Stay", wherever the dog is (the sound signal replaces your dog-whistle).

The sound signal forgoing the pulse is very efficient; Your dog will soon create a link between its incorrect behaviour, the sound warning, and its unpleasant feeling.

It is very important to always use the sound signal in the same way to avoid your dog of being confused.

Button – Short pulse or Continuous pulse

If your dog will not obey your command followed by the sound pulse, you can send it a correction pulse (at a suitable level) to distract it from its activity and draw attention to you. The principle of this correction pulse is not to hurt your dog, this is very annoying for it and so the dog will soon create a link between your command, sound signal, and its unpleasant feeling. A minimum of these correction pulses will be necessary after some time as your dog connects them very well with disobedience of your command and then it will be enough to send a command and accompany it with a sound signal if necessary.

Continuous pulse "B"

- It is the first step of the training
- It should be used for training at the place which your dog knows well (at the beginning).
- As this pulse is longer, use a lower intensity and use the pulse length rather than intensity so that your dog can have some time to make out.


Short pulse "A"

- Use this function to correct the behaviour of your dog.
- Short pulses are usually used at a later stage of the training after the dog has already been trained with long pulses.
- Here, higher pulses are used compared to training with permanent pulses.

Button – Booster

You can use this button to set your remote controller. You can select a short pulse

for the  button and use it for long correction pulses you have preset, or you can set

a higher level of the correction pulse than you have preset for the  button and use it for resolving extreme situations when your dog did not respond to the default level of the correction pulse. However, use these correction pulses in extreme situations only.

Tips

With the DOGtrace™ collars it is extremely easy and quick to teach the dog:

- To walk along without a dog-lead.
- To call in reliably (“To me”, “Come to me” commands).
- To interrupt an inappropriate activity (“Fie”, “You mustn’t”).
- To unteach bad habits during daily coexistence with people, such as taking food from the table, jumping at people, pawing, undesirable barking, etc.
- Precise training of virtually every skill whereas the dog must do it precisely and reliably as if it were on a lead (**as many as hundreds of meters long!**) – with the removal of the undesirable dependence on the lead which the dog knows very well and adapts its behaviour to it.
- To unteach chasing animals and running away from its master in the country – and thus being exposed to problems and risks related to them, so the solution bringing more freedom for your dog who now can move freely also across patches where it would not otherwise be possible or it would be dangerous.
- Special activities and commands for business, hunting, sports or other training.
- Using directly during hunting for communication with the dog.
- A series of other activities and applications which the owner of this unit will soon discover in daily common life with his/her dog.

Hints for using

- Do not place your remote controller close to objects sensitive to magnetic fields that might get damaged and be out of repair.
- Do not put your d-control in places exposed to high temperatures.
- It is necessary to replace the batteries every two years and also in the case that the set is not used for a long time. Never leave a flat battery in your unit; it might leak and damage your unit.
- Repeated contacts of the electrodes with the dog's skin may cause its irritation. If this happens, do not use the collar until all traces of irritation are gone.



WARNING:

In the event that your dog has a wet fur, use a lower level of the correction pulse than you usually use.

Maintenance

Never use volatile agents such as thinners, petrol, or various cleaners to clean your **DOGtrace™ d-control**. Use a soft damped cloth and a neutral clearing agent if necessary.

The receiver (collar) DOGtrace™ d-control is water-tight only on condition of a good state of the seal and after its treatment with silicone vaseline. If this is fulfilled, your dog can even swim with that. In order to maintain the water-tightness of your receiver, we recommend to replace the rubber seal under the receiver's cover and treat it with silicone vaseline.

After every replacement of the battery in the collar, make sure that the seal is properly cleaned and settled and that the screws are adequately tightened. Check them regularly and tighten them only adequately!

The remote controller is waterproof as much as possible. If it is dropped into water, it is likely that it will be irrecoverably damaged or destroyed.

If you do not use the unit for a long time, remove the batteries from your remote controller and receiver.

The collar will remember the preset configuration (autoencoding). When you turn it on next time, it will be in the mode you selected last time.

Troubleshooting

Before you start considering your unit to be faulty:

- Read out this Service Instruction manual once again and make sure that the problem is not caused by weak batteries or by incorrect application.
- Check to see if the batteries are positioned correctly with regard to their polarity.
- If a problem persists, try to initialize the system by removing the battery from the battery holders in the receiver, then use a metal tool (e.g. a screwdriver, scissors, etc.) and short-circuit both contacts – battery holders for about 2 seconds. Reinstall the battery. The unit emits a beep confirming that the battery is installed with correct polarity.
- Unless this helps, program your receiver again. Clear the previous code in the memory and then match your receiver with the remote controller according to instructions in this manual.

If the problem persists, contact your supplier.

Warranty

DOGtrace™ provides the product with warranty for possible manufacture faults to the extent of two years from the date of purchase.

The manufacturer does not take responsibility for damage to the instrument caused by incorrect use, unauthorized repairs and dismantling.

The warranty does not cover the following items:

- Batteries
- New straps
- Direct or indirect risks during transportation of the product to the seller
- Damage to the product caused by user's negligence or by an accident (e.g. by masticating, breaking, impacts, etc.) and by interventions of unauthorized persons.

The information contained in this manual may be subject to modification without prior notice.

Technical data

TRANSMITTER

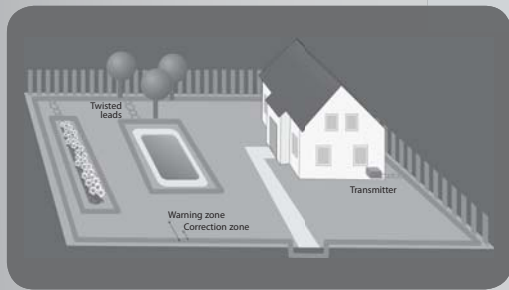
- Weight 175 grams (transmitter, battery)
- Range from 600 to 1600 metres in open area, depending on the transmitter model
- Power supply 2 LR6 1.5V alkaline batteries
- Battery life 6–12 months, depending on using
- Frequency (output) 869.525 MHz (500 mW)
- Antenna helical or $\frac{1}{4}$ wave, depending in model
- IP code IP20
- Radio communication safety and encoding... by Microcontroller
- Number of pulse levels..... 30
- Operating temperature -10°C to $+50^{\circ}\text{C}$
- Size..... $118 \times 52 \times 32$ mm (without antenna)

RECEIVER (COLLAR)

- Weight 65 grams (without the strap)
- Power 3V CR2 lithium battery
- Battery life..... 6 months, depending on using
- Frequency 869.525 MHz
- Antenna Integrated
- IP code Protected against submersion
- Radio communication safety and encoding... by Microcontroller
- Operating temperature -10°C to $+50^{\circ}\text{C}$
- Adjustable neck circumference..... 20 to 75 centimetres
- Size..... $33 \times 39 \times 61$ mm

Electronic invisible fence

Do you have a wandering pet not paying attention to your protests who likes traveling nearby and far from your house? Or is it a garden lover who likes your garden patches or a swimmer who loves swimming in your pool?



The d-fence is a modern and highly efficient system enabling one or more dogs to run freely in the area, fenced or fenceless, which you will provide it.