



# DOG GPS X40

GPS OVLADAČ | NÁVOD K OBSLUZE  
GPS-FERNBEDIENUNG | BENUTZERHANDBUCH  
GPS REMOTE CONTROL | USERS GUIDE  
CONTROL REMOTO GPS | GUÍA DEL USUARIO  
TÉLÉCOMMANDE GPS | GUIDE D'UTILISATION  
GPS TÁVIRÁNYÍTÓ | HASZNÁLATI ÚTMUTATÓ  
TELECOMANDO GPS | MANUALE UTENTE  
PILOT GPS | INSTRUKCJA OBSŁUGI



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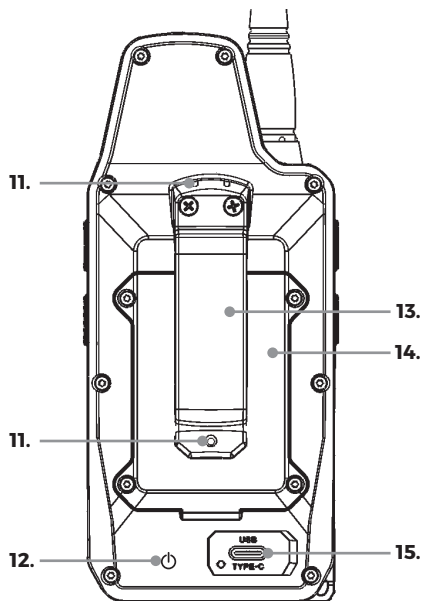
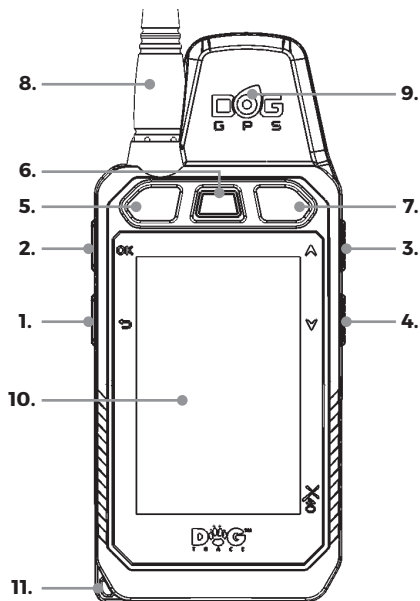
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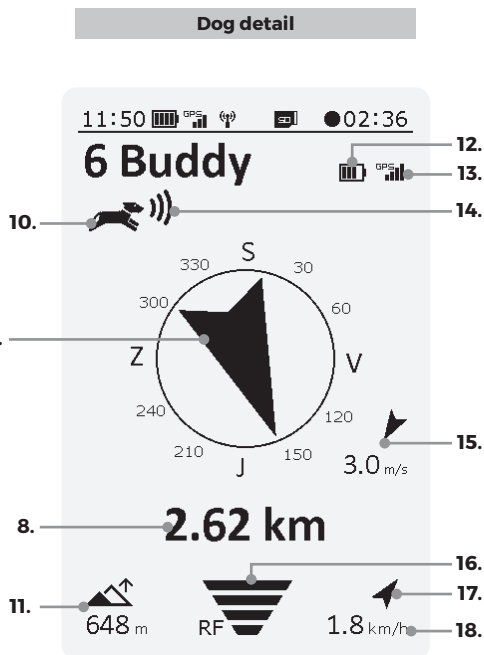
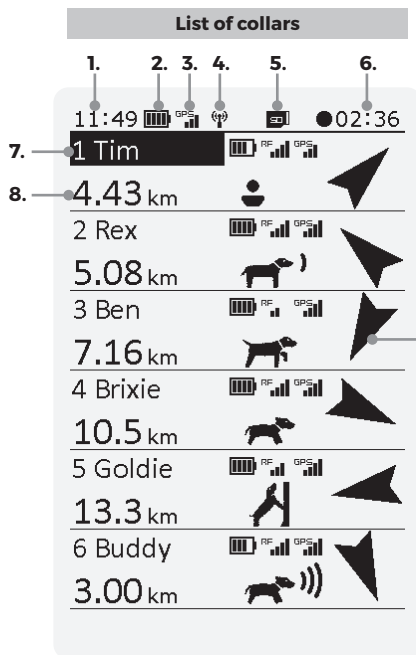
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# 1. REMOTE CONTROL (RECEIVER - HANDHELD DEVICE) – chapter 6.1



# 2. DISPLAY DESCRIPTION – chapter 6.2



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## 1. DECLARATION OF CONFORMITY



VNT electronics s.r.o., manufacturer of Dogtrace professional training tools for dogs, declares that the GPS tracking device DOG GPS X40 complies with the Council of Europe Directive 2014/53/EU and conforms to all applicable standards. For more information please visit [www.dogtrace.com](http://www.dogtrace.com)

## 2. IMPORTANT NOTICES

- Please read the operating manual carefully before use.
- Keep the instructions for future reference.
- Do not place the remote control near objects that are sensitive to magnetic fields - they could be permanently damaged.
- Do not place the remote control near magnetic field generating equipment - the internal digital compass may be affected.
- The remote control contains a rechargeable Li-Pol battery. If you do not use the DOG GPS, the batteries must be recharged every 6 months.
- Do not charge the battery in an environment with a temperature higher than 40 °C - risk of explosion. Protect the Li-Pol battery from damage by sharp objects, high mechanical pressure and high temperatures. The battery could catch fire or explode.
- Do not use non-original batteries - damage to the product or battery explosion could occur.
- Dispose of used batteries in a designated place.

### 3. ECMA



VNT electronics s.r.o. is an active member of the ECMA (Electronic Collar Manufacture Association), which represents the highest quality manufacturers of electronic training aids for dogs. The aim of all members of the association is to develop and manufacture quality and reliable training systems that respect the safety of the animal. For more information, visit [www.dogtrace.com](http://www.dogtrace.com) or [www.ecma.eu.com](http://www.ecma.eu.com).

### 4. INTRODUCTION

The DOG GPS X40 is a device used in conjunction with the X30 and X40 series collars to track (locate) your dogs up to 20 km. The whole system consists of a transmitter, which is placed on the dog's collar, and a controller (receiver) on which the handler tracks the distance and direction to the dogs location. The transmitter (collar) receives its position from GPS satellites and sends the position information to the handler's controller (receiver) using a radio frequency (RF) signal.

The controller can be connected to a mobile phone or tablet (Android OS, iOS) via wireless communication and all paired devices may be viewed using the DogTrace GPS 2.0 application on the map.

**Detailed online instructions for further setup → [www.doggpshunter.cloud/manual](http://www.doggpshunter.cloud/manual)**

### 5. PACKAGE CONTENTS

- Controller (receiver) DOG GPS X40
- Power adapter with USB charging cable
- Lanyard for hanging the controller around the neck
- RF antenna
- SD card (inside the controller)
- Instructions for use

### 6. EQUIPMENT DESCRIPTION

#### 6.1 GPS controller X40 (page 2 fig. 1)

1. - 7. Push buttons (see table)
8. RF antenna
9. GPS antenna
10. LCD display
11. Lanyard holes
12. Magnet to switch on X30 series collars
13. Belt clip
14. Battery cover
15. USB C charging connector cover

| BUTTON |  | LONG PRESS          | SHORT PRESS         |
|--------|--|---------------------|---------------------|
| 1      |  | on/off              | back (one level up) |
| 2      |  | menu                | OK (confirmation)   |
| 3      |  | fast scroll up      | up                  |
| 4      |  | fast scroll down    | down                |
| 5      |  | training beep tone  |                     |
| 6      |  | stimulation impulse |                     |
| 7      |  | optional button     |                     |

#### 6.2 Display X40 (page 2 fig. 2)

- |                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                         |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ol style="list-style-type: none"> <li>1. Clock (only when GPS signal is received)</li> <li>2. Controller battery status</li> <li>3. Controller GPS signal</li> <li>4. Status of wireless connection to the phone</li> <li>5. SD card error indication</li> <li>6. Route recording time</li> <li>7. Name of dog (other hunter)</li> <li>8. Distance to the dog</li> <li>9. Direction to the dog</li> </ol> | <ol style="list-style-type: none"> <li>10. Condition of the dog</li> <li>11. Altitude position of the dog</li> <li>12. Collar battery status</li> <li>13. GPS signal of the collar</li> <li>14. Dog bark indication</li> <li>15. Wind speed and direction</li> <li>16. RF signal strength received from the collar</li> <li>17. Direction of dog movement</li> <li>18. Speed of dog movement</li> </ol> |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### 7. PREPARATION OF THE CONTROLLER AND COLLAR

#### 7.1 Charging and battery status of the controller

The X40 contains a Li-Pol battery. Before using it for the first time, it is necessary to charge the battery first.

1. Remove the charging connector cap and connect the USB - C cable (included) - Fig. 1/15, page 2.
2. Connect the power cable to the 5 to 5.5 V DC charging adapter and plug into the mains.
3. The battery charging indicator will appear on the display.
4. Charging time with a fully discharged battery is approximately 3 hours.

5. The battery is charged when the full battery symbol is displayed.

**WARNING:** Recharge the battery in an environment with a temperature between 0 and 40 °C. Use a charging adapter with an output voltage of 5 to 5.5 V DC and a minimum current of 1 A, or the original 5.2 V power adapter for charging. Using an adapter with a higher voltage may damage the electronic collar.

## 7.2 Turning on/off, MENU navigation, language selection

To better navigate the GPS controller, first change the language in which you want to use the device.

1. Switch on the controller by holding down the  button (Figure 1/1 on page 2).
2. Long press the **MENU** button to access the main menu on the device.
3. Navigate through the **MENU** with the buttons  |  and confirm the selection by short press of the **OK** button.
4. The language selection can be found in **MENU** → **Settings** → **System** → **Language**

## 7.3 Switching the collar on/off

### • Collars of the X40 series:

The X40 collar is switched on by long pressing the button on the underside of the collar.

### • Collars of the X30 series:

The X30 collar is fastened by a magnetic switching system that is activated by the insertion of a magnet. The collar magnet is located in the actuator at the bottom back of the collar, in the area marked with the  symbol (Fig. 1/12 on page 2).

#### Switching on:

1. Hold the  symbol on the back of the controller against the red target on the collar for about 1 second - the red indicator light will come on, followed by the green indicator light.
2. When the green indicator light comes on, move the remote away from the collar. The green indicator light on the collar will flash.

#### Switching off:

Proceed in the same manner as for switching on.

1. Hold the remote control and collar together until the green and then the red indicator light comes on.
2. When the red indicator light comes on, pull the device away from you. The collar will stop flashing.

## 7.4 Switching between the Collar List / Route List points screens

If you have the basic **Collar List** screen (Figure 2 on page 2) displayed on the controller, you can switch between the **Route Point List** and the **Collar List** by repeatedly pressing the  button. To view the detail of a collar or waypoint, select the desired item in the list by using the arrow keys  |  and pressing the **OK**.

To switch between dogs (waypoints) in the **Dog Detail / Waypoint Detail** window, just use the arrows  | ; you don't need to go back to the list.

**Note:** In the **Collar Detail** screen (Figure 2 on page 2), you can press the **OK** button to view the statistics of the dog. To return to the dog detail, press the .

## 7.5 Pairing the collar with the controller

For the collar to communicate with the controller, it must first be paired.

**WARNING:** Only DOG GPS X30 and X40 series collars can be paired with the DOG GPS X40 controller. The X40 series collars can only be paired with one controller. If you want to share the collar with another user, you must use the sharing feature (see X40 collar instructions). In order to pair the X40 collar with the controller, it must be switched to pairing mode (the procedure is described in the instructions for the X40 series collars). When pairing mode is enabled, the green and red LEDs on the collar will flash alternately.

#### Procedure for pairing the collar with the controller:

1. Long press the **MENU** button to access the main menu.
2. Use the arrow keys  |  to select **Device List** and press **OK**.
3. Select one of the available positions in the list where you want to store the collar and press again **OK**.
4. **Turn on the collar you want to pair - turn off the other X30 Series collars.**
5. Select **RF Pairing Nearby Device** on the controller and bring the RF antennas of the controller and collar together.
6. After successful pairing, the message: **RF pairing successful** is displayed.

7. Press the **OK** button to return to the **Device List** screen.
8. To pair another collar, repeat the procedure from step 3. If you no longer wish to pair another collar, you can return to the basic screen by pressing the **↩** button repeatedly.

**Note:** Each collar can only be matched to one position in the dog list.

## 8. BASIC X40 FEATURES

### 8.1 Training buttons

The three buttons located above the controller display are used to send a training command to the dog. When one of these buttons is pressed, the command is sent to the collar that is currently selected on the main **Collar List** screen or the one selected in the **Collar Detail** window.

**Button 1 - Training Tone** : When the button is pressed, an audio command is sent to the collar. The default function for button 1 is a training tone (T).

**Button 2 - Stimulation Impulse** : This feature enables to activate warning in the collar in the form of safe stimulation impulse. The first press of the button will show the training bar on the display, but the impulse will not be sent. In this state, the strength of the stimulation impulse can be adjusted by **▲** | **▼** buttons. A second press of button 2 sends the selected impulse strength to the collar.

**Button 3 - Optional button:** button can be freely set for each individual dog and the following functions can be selected:

**Collars X30** – Light, Sound, Booster (different selected stimulation pulse size than on button 2)

**Collars X40** – Light, Sound, Booster, REC and Vibration



#### Quick setting of the optional button:

1. Select the **Collar Detail** window and choose the dog for which you want to set the button.
2. Press button 2 (see picture above). The training bar will appear on the display.
3. Press the **OK** button. The feature menu for the option button is displayed.
4. Use the **▼** button to select the desired function.
5. Confirm the selection by pressing the **OK** button.

#### Detailed settings of the optional button:

1. Long press the **MENU** button.
2. Select **Device List** by arrow keys **▲** | **▼** and confirm **OK**. A list of paired collars will be displayed.
3. Choose the particular dog in the list again by arrow keys **▲** | **▼** and confirm with **OK**.
4. Select **Training Settings** and the **Optional button**.

#### REC function (X40 series collars only)

This function allows you to record a short audio recording from the surroundings of the collar and then play it back on the controller.

### 8.2 Waypoints

Waypoints are used to mark locations such as a parked car, house, sitting area or the presence of wildlife. Use this feature to save your current location to which you can later be guided. You can also download any waypoint created in the Dogtrace GPS 2.0 map application to the GPS controller.

The controller allows you to store up to 40 waypoints. Saved waypoints can be edited at any time.

#### Saving waypoint:

1. Long press the **MENU** button.
2. Use the arrow keys **▲** | **▼** to select **Waypoints** and confirm with **OK**. A list of waypoints is displayed.
3. Choose an empty position in the list by arrow keys **▲** | **▼** and confirm **OK**.
4. Select the appropriate icon and name and save by pressing **OK** button.

## 9. OVERVIEW OF OTHER FUNCTIONS AND ITEMS MENU

1. **Messages** – the ability to send short default messages to another X40 driver (not available with X30).
2. **Record** – serves to start a new recording of the controller route and collars. The route is saved directly to the controller on the SD card and can be displayed by using the Dogtrace GPS 2.0 application.
3. **Hunt** – use this feature to share your dogs between other users (between X40 controllers only).
4. **Device List** – a list of paired devices and the ability to set them up.
5. **Waypoints** – a list of waypoints and the ability to edit them.
6. **Fences** – option to set up a ring fence or geo-fence.

- 7. **Tools** – Stopwatch, Timer, Distance measurement, Weather (in conjunction with the Dogtrace GPS 2.0 app on your phone)
- 8. **Notifications** – list of incoming alerts (notifications).
- 9. **My position** – information about my position and GPS controller statistics.
- 10. **Settings** – basic device settings and information - Compass, Positioning services (number of satellites and their signal strength), System (basic settings of the controller), Battery (detailed info about battery status), Information (info about type, SW version, ID and other info).

For more information, see the online manual at → [www.doggpshunter.cloud/manual](http://www.doggpshunter.cloud/manual)

## 10. THE COMPASS CALIBRATION

For exact indication of the direction to the collar it is important to have a well calibrated magnetic compass in the controller. The Dog GPS is calibrated automatically. However, if the compass is affected by a strong magnetic field, it is recommended to calibrate manually.

You can check the compass calibration status in **(MENU) → Settings → Compass**. At the bottom of the screen you will see the Calibration status in four levels - **Good / Medium / Poor / None**. If the quality is poor or none, it is recommended to perform a manual calibration.

1. To start the manual calibration, click **Calibrate Compass**.
2. Then turn the controller in your hand according to the diagram shown on the display.

**WARNING:** Carry out calibration in an open area away from objects that emit magnetic fields - buildings, cars, overhead and underground power lines.

## 11. PAIRING THE CONTROLLER WITH A MOBILE APP

One of the main advantages of the DOG GPS X40 system is the ability to wirelessly connect the controller to a mobile phone or tablet running Android or iOS operating systems. The application can display all devices paired with the controller on an online or offline map.

**Download the Dogtrace GPS 2.0 app from Google play or the Apple Store.**

### 11.1 Pairing procedure

**WARNING:** Before you start pairing, **prepare the PIN 2 code** found on the label in the product box.

Verify that the  symbol is flashing on the controller display before pairing. If this symbol is not shown on the display, you must turn on the wireless communication - Bluetooth - in the GPS controller **(MENU) → System → Bluetooth - ON**.

1. The  symbol will now flash on the display of the controller.
2. In the Dogtrace GPS 2.0 app, press the red symbol to find and pair the device (in the top left corner of the map screen), or go to **(MENU) → Settings → DOG GPS receiver** connection in the app.
3. Follow the instructions displayed in the app.
4. From the **Available Devices** menu, select the name of your controller (**Name**), which can be found on the label in the product box.
5. While proceeding first device pairing, a request for a **PIN code** is displayed. For some mobile phones, the PIN entry window must be opened from the notification bar.
6. Following the correct pairing, the  symbol should be continuously lit on the receiver display and the **Connected** message appears in the application.
7. In the app, press the back arrow to return to the map. The map now shows all devices paired with the controller and the saved waypoints.

The individual functions of the app are described in the manual, which can be downloaded at [www.dogtrace.com](http://www.dogtrace.com).

## 12. MAXIMUM GPS RANGE AND ACCURACY

The DOG GPS X40 can be used up to a distance of 20 km, with direct visibility between the collar and the controller. **However, the maximum range and accuracy of the GPS are affected by many factors - weather, terrain, vegetation, etc.** In densely wooded or built-up terrain, the GPS signal may be less accurate and the range significantly shorter. These limitations are not due to a defect in the equipment, but result from the laws of physics and technical possibilities within the current European standards. With a weak GPS signal, the displayed distance may not be accurate and may change dynamically according to the current quality of GPS reception at the controller and collar.

### Recommendations to achieve maximum range and accuracy of the device:

- Make sure the batteries in the collar and controller are sufficiently charged.
- Fit the collar appropriately on the dog's neck - the RF antenna must point upwards.
- When in use, hold the controller as high as possible, with the RF antenna pointing up and almost perpendicular to the ground so that you can clearly see the direction indicator. (Correct position of the controller ensures reliable reception and accurate direction display.)

## 13. TROUBLESHOOTING ADVISOR

1. If the device is discharging rapidly - the battery lifespan is nearing its end, replace it with a new one.
2. If the controller does not communicate with the collar, try pairing the device again - see chapter 7.5 Pairing the collar with the controller.
3. In event of an inaccurate indication of the dog's direction from you, check the Compass Calibration Status according to Chapter 10. If the status is poor or none, perform a calibration.
4. If the unit does not respond to button presses, perform a **"RESET"** by holding down both left buttons on the controller (**MENU** + ) for approximately 10 seconds. The device will restart.  
If no response to the pressed buttons is visible even after 10 seconds, unscrew the battery cover and disconnect the battery for about 1 min. After reconnection, check the functionality of the device. If the problem persists, contact your dealer.

## 14. TECHNICAL DATA

|                                           |                         |
|-------------------------------------------|-------------------------|
| Locating system .....                     | GPS, GALILEO, GLONASS   |
| Power supply .....                        | Li-Pol 1900 mAh battery |
| Battery life per charge .....             | up to 38 hours          |
| Charging time .....                       | 3 hours                 |
| Ingress protection .....                  | Waterproof              |
| Operating temperature .....               | -10 °C to +50 °C        |
| Charging temperature .....                | 0 °C to +40 °C          |
| Weight .....                              | 194 g                   |
| Dimensions without antenna and clip ..... | 152 × 65 × 25 mm        |