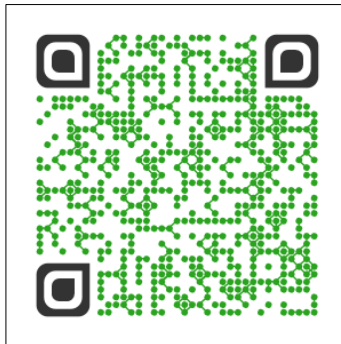# AgriProTech

Innovation dedicated to farmers' help and assistance

BIRDTRAC©OPERATING INSTRUCTIONS
AGRIPROTECH - ALL RIGHTS RESERVED.

1. Use your usual QR code reader or download a free QR code reader on your smartphone

2. Launch the application, scan the QR code below and access BirdTrac® **tutorials and demo videos**

Otherwise, connect directly to the AgriProTech Youtube channel at http://bit.ly/2zBShid

BirdTrac© Operating Instructions

You have just purchased a BirdTrac® bird repeller. Reading this instruction manual will help you get the most out of your appliance. Please follow the instructions in these operating instructions and keep them in a safe place so that you can consult them at any time.

Your BirdTrac® includes :

➔ An IP55 electronic box comprising:
  • An electronic module with a screen and a rotary knob
  • A memory card with repulsive sound signals
  • A scaring speaker
  • A wall mounting at the back
➔ A power supply

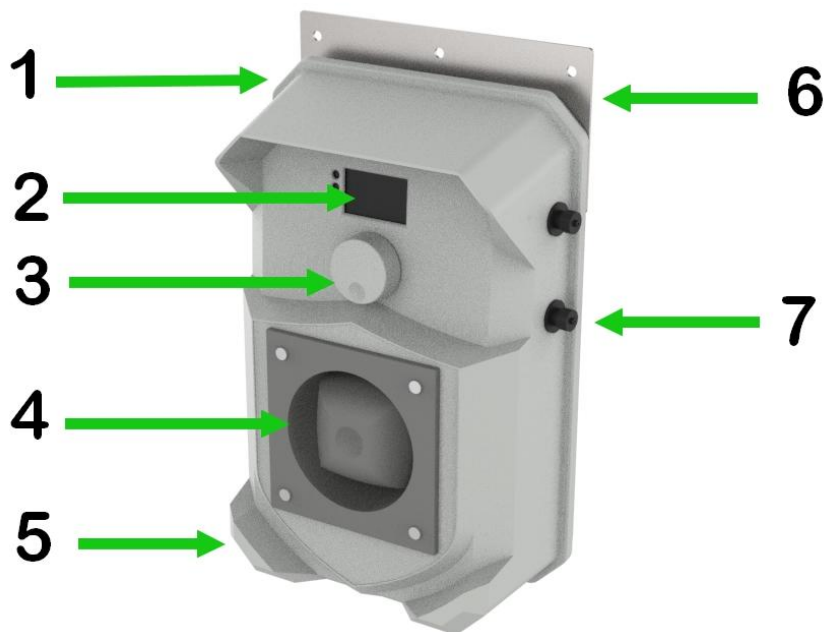> **ATTENTION : The BirdTrac® starts up as soon as it is switched on and emits 104 dBA at 1 metre.**
>
> If you have any problems with your BirdTrac® repeller call AgriProTech customer service on +33 (0)2 98 96 08 12 or send an email to contact@agriprotech.fr.

Contents

I. **The different components of the BirdTrac® repeller**

Set	
	1. IP55 waterproof case **2.** Screen, luminosity sensor and LED (*see details below*) **3.** Rotary knob for programming **4.** Speaker **5.** Unique serial number label **6.** Wall mounting plate **7.** Power socket (for power supply)

Screen, LED and luminosity sensor	
	On the left side of the screen, from top to bottom, you will find : - the red LED that flashes in case of a power supply problem - the green LED that flashes twice when you confirm a program - the luminosity sensor

Power supply (in two parts)

Solutions de protection
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II. <u>Warnings</u>

1. First use

ATTENTION : The BirdTrac® starts up as soon as it is switched on and emits 107 dBA at 1 metre. To stop a emission, press the OK button

The BirdTrac® repeller must be used with care if there are herds nearby, as distress signals can create unpredictable reactions in some animals. Flocks usually get used to the scare signals within 24/48 hours.

The audible BirdTrac® acoustic repeller can emit sound signals up to 110 dBA at 1 meter. It is imperative not to remain in front of the speaker when it is emitting at maximum power.

In order to avoid habituation effect, it is important not only to vary the sounds, but also the intervals between each signal. Only emit when necessary to maintain signal efficiency. To increase the surprise effect, be sure to move the device regularly, even by a few metres

The warranty will not be honoured if the original memory card is replaced.

2. The sounds

Some sound signals may seem unusual, but they are the result of extensive research into animal behaviour. Some sounds are emphasised because they are more effective than others.

These signals are designed to "confuse" pests. Indeed, they will be recognised as stressful, but the birds, not being able to identify or recognise them clearly, will eventually tire and leave the protected area.

In the context of acoustic scaring, it is important to avoid the animals getting used to the sound.
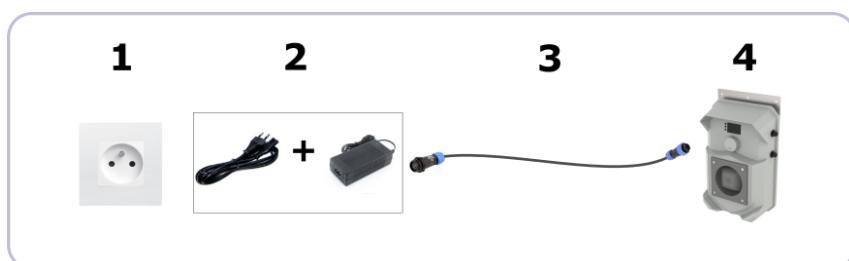
It is therefore necessary to vary the sounds emitted, as well as the intervals between each signal. Only emit when necessary to maintain signal efficiency.

3. The power supply

Your BirdTrac® Bird repeller comes with a power supply. This is connected to the left side of the unit. When the unit is disconnected from the power supply, the BirdTrac® returns to its default settings.

The power supply of your BirdTrac® is not waterproof. It must therefore be used in a clean and dry place.
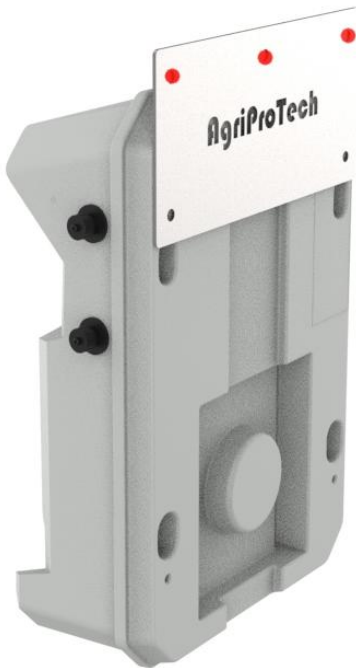
If you wish to leave your device connected to the mains when outdoors, it must be connected to its power supply by a 5 metre (ref A0961) or 10 metre (ref. A0962) waterproof cable. If necessary, do not hesitate to ask your usual vendor.
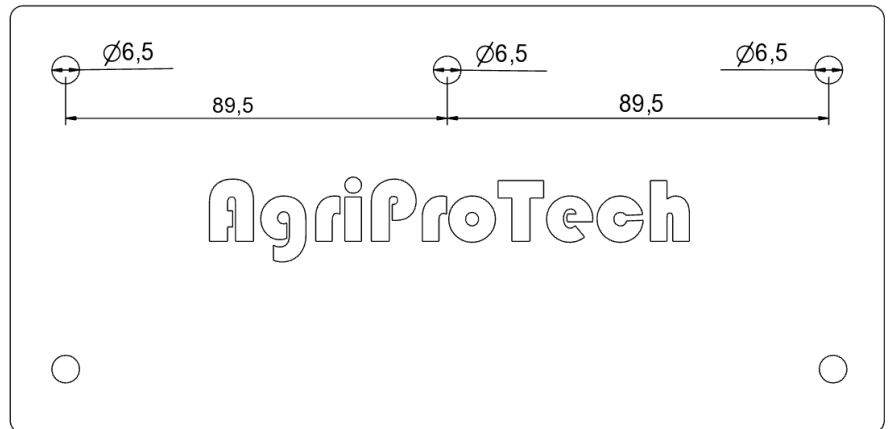

1 - Mains socket (indoors, protected from moisture)
2 - Non-waterproof power supply, to be connected indoors, protected from humidity
3 – 5 or 10 metre waterproof cable (can be connected end to end)
4 – BirdTrac®

III. Fixation

The BirdTrac® can be installed on a fixed installation :

Screw the assembly onto the support of your choice, using suitable screws (not supplied), in the holes in red opposite. The diameter of the holes is 6.5 mm.

IV. Programming

1. Default settings

The default operating principle is as follows:

➔ The BirdTrac® starts up as soon as it is switched on (Alarm 1 active by default)
➔ **ATTENTION : The BirdTrac® starts up as soon as it is switched on and emits 107 dBA at 1 metre. To stop the emission, press the rotary knob**
➔ It emits every 20 minutes
➔ The sound volume is 29 i.e. 107 dBA. The maximum volume is 30, i.e. 110 dBA.
➔ The device emits by default between 0:00 and 23:59
➔ The default language is French
➔ When the unit is disconnected from the power supply, the BirdTrac® returns to its default settings.

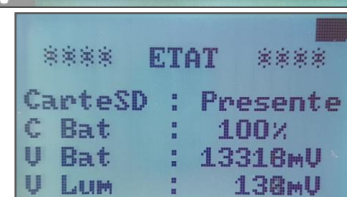### 2. Switching the device on and off

To **switch on** the device, press the centre of the rotary knob for a few seconds. The complete serial number is displayed, you can click again until you reach the home menu.

The 'Menu' screen appears and tells you whether the '**Programmable**' (**a.** on the right) and '**luminosity**' (**b.** on the right) alarms are active or inactive. Once in the Menu, turn the knob to navigate between the different programming panels.

The first ***Status*** panel shows:
➔ The card is present
➔ The battery level in %
➔ Battery voltage in mV
➔ Luminosity in mV

Attention : In order not to cause the emission of unwanted sound signals, it is important to choose an alarm type. Either one or two "**programmable**" alarms, or the "**luminosity**" alarm.
Tip : To stop a program in progress, press the rotary knob.

To **put the device on standby**, go to the main menu and press the rotary knob for 3 seconds. If you do not touch the rotary knob for 90 seconds, the unit will automatically go into standby mode.

To **switch off** the device, deactivate the two types of alarm: "**programmable**" and "**luminosity**".

3. Programming the different menus

Num	Screen and menu name	Programming
1	**Activation alarm 1 and/or 2** (Programmable alarms)	*If you want to program the start and end time of the signal transmissions, activate this type of alarm. It is possible to program one or two operating time slots. The start and end times are programmed in the following menus (6 and 7).* ➢ Press the knob to enter this menu ➢ Turn the knob to select **active** or **inactive**. ➢ Once you have chosen, press the knob. ➢ Press again to confirm your choice and move to the next menu or turn the knob to cancel.
2	**Luminosity alarm clock** (Activation of the luminosity alarm)	*BirdTrac® can be programmed for sunrise and sunset times. You must therefore activate this alarm so that the emissions are triggered according to the data from the light sensor.* ➢ Press the knob to enter this menu ➢ Turn the knob to select **active** or **inactive**. ➢ Once you have chosen, press the knob. ➢ Press again to confirm your choice and move to the next menu or turn the knob to cancel.
3	**Emission of N sounds** (Emission test)	*This menu allows you to make sounds instantly without programming the start and end times. It can be used to test the volume, for example. The number of sounds (N) to be broadcast is therefore chosen randomly, according to the selected sound repertoires. From 1 to 9 signals can be sent in a row.* ⚠️ *This **"test" menu** has no impact on the programming. Thereafter, the device will always emit only one signal at a time. The system is thus programmed to limit the chance of animals becoming used to the device.* ➢ Press the knob to enter this menu ➢ Choose the number of sounds to emit by turning the knob. ➢ Once the desired number of sounds has been reached, press the knob. ➢ Press again to confirm your choice and move to the next menu or turn the knob to cancel.

4	**Acoustic volume**	*It is strongly recommended to emit at the loudest level (level 30) when possible (no habitation within 200 m). The aim is to surprise the animals by emitting stressful signals.*

Acoustic volume

It is strongly recommended to emit at the loudest level (level 30) when possible (no habitation within 200 m). The aim is to surprise the animals by emitting stressful signals.
This volume will be applied to all types of alarms.

➤ Press the knob to enter this menu
➤ Select the desired volume by turning the knob (*each volume step corresponds to 3 decibels*).

➤ Once the volume is selected, press the knob.
➤ Press again to confirm your choice and move to the next menu or turn the knob to cancel.

Here is a table giving you 'rough' equivalents to help you programme the most appropriate volume for your situation.

It is best to carry out tests at the end of the programming, using menu 3 - **Emission of N Sounds**. This will give you a clear idea of the possible impact on the environment.

BirdTrac level	dBA @ 1 m.	Common noise equivalent
30	110	Maximum sound level in a car
28	104	Night club
26	98	Walkman listened to at full power
24	92	
22	86	Motorbike nearby, tractor
20	80	Heavy car traffic, horns
18	74	
15	68	Noise of a moving car
14	62	Normal conversation, window on street
12	56	
10	50	

5 — **Periodicity sounds**
(Interval between each sound)

Setting the pause time between each signal transmission.
Minimum interval: 3 min; maximum interval: 2h 59 min 59 sec.
This interval will be applied to all types of alarms.
It is not recommended to go below 20 minutes.
To be defined according to the pressure of the birds:
  o *Significant pressure (food nearby) : 20 min.*
  o *Average pressure : 30 min.*
  o *Weak pressure : 45 min to 60 min.*

➤ Press the knob to enter this menu
➤ Program the seconds by turning the knob and press the centre of the knob to switch to minutes.
➤ Program the minutes by turning the knob and press the centre of the knob to switch to hours.
➤ Program the minutes by turning the knob and press the centre of the knob to confirm.
➤ Press again to confirm your choice and move to the next menu or turn the knob to cancel.

6	**Start alarm 1** **& Stop alarm 1** (Programmable alarm n°1) 1 ⏰	*The first menu allows you to program the start time of alarm 1 and the second defines its end time. The hours are programmed in the same way:* ➢ Press the knob to enter the menu ➢ Program the seconds by turning the knob and press the centre of the knob to switch to minutes. ➢ Program the minutes by turning the knob and press the centre of the knob to switch to hours. ➢ Program the minutes by turning the knob and press the centre of the knob to confirm. ➢ Press again to confirm your choice and move to the next menu or turn the knob to cancel.
7	**Start alarm 2** **& Stop alarm 2** (Programmable alarm n°2) 2 ⏰	*If you choose to activate the programmable alarm 2, program the start time and end time of the sound emissions* in these two menus. ➢ These two menus are programmed in the same way as the previous ones.
8	**Device time** (Current time) 🕐	*Be sure to set the time on the device if you have chosen to activate one of the programmable alarm.* ➢ This menu is programmed like the previous one.
9	**Sound selection** 🎵 Selection	*Selection of sound repertoires to be emitted according to the species to be scared away (details in the chapter on **Selection of sounds emitted**). This selection will be applied to all types of alarms.* ➢ Press the knob to enter this menu: the name of the first repertoire is displayed. ➢ To select or deselect a repertoire for broadcast, press the knob : <u>An arrow appears in front of the repertoire name when it is selected and disappears when it is not.</u> ➢ Press the knob to confirm the selection of a repertoire and move to the next one. ➢ Repeat this action until the repertoires are scrolled and you are asked to confirm. ➢ Press the knob to confirm your choice and move to the next menu or turn the knob to cancel.
10	**Language selection** 🏳🏁🇬🇧	➢ Press the knob to enter this menu. ➢ Scroll through the available languages turning the knob. ➢ Once you see the language of your choice, press the knob. ➢ Press again to confirm your choice and move to the next menu or turn the knob to cancel.
11	**Screen contrast** ☼	*Screen contrast adjustment.* ➢ Press the knob to enter this menu ➢ Rotate the knob to select the contrast of your choice ➢ Press the button to confirm your choice ➢ Press again to confirm your choice and move to the next menu or turn the knob to cancel.

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1 2	**Factory settings** ⚙🔧	*Menu to reset the unit to factory settings.* ➢ Press the knob to enter this menu ➢ Press the knob again to choose to delete the programming parameters and thus return to the original settings: the text "Delete!!!" appears. **Please note that this choice will erase the time and your programming.** ➢ If you do not want to return to the original settings of the device, choose to retain the programmed settings by turning the knob: the text 'Retain settings' appears. ➢ Once you have chosen the action to be taken, press the knob. ➢ Press again to confirm your choice and move to the next menu or turn the knob to cancel. ⚠ Please note that at the end of the procedure, the device will reset and emit a signal at maximum power to test the correct operation of the speaker. **Point the speakers to the side, as far away from your ears as possible.** It is possible to stop this program by pressing the knob. Once the system is reset, it displays its serial number. ➔ You can skip this screen by pressing the knob ➔ Then a second pane appears with the words '**Press OK**' at the bottom: press the knob ➔ At the bottom of the next pane you will see '**Turn Select**': turn the knob ➔ **A signal is emitted at maximum power**, stop it by pressing the knob again. ➔ The device goes into standby mode. You can then switch it on again and program it in the usual way.

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4. Emission intervals

It is important to use the sounds only for "intended purposes". Animals have a highly developed sense of observation, so if the signals are given too often, they may quickly get used to them. The aim is to surprise birds and other unwanted animals and to make the emission area hostile.

The recommended minimum beeping interval is 20/30 minutes. However, for short periods of time, it is possible to reduce this interval.

For information, the interval is on average XX minutes + an average randomness of 10% of this interval.

5. Selection of sounds emitted

There are several repertoires available in the 'Sound selection' menu. The repertoires to be issued should be selected according to the species to be scared off, according to the table below. The repertoires selected will be the same for the two operating time slots.
You can **change the selected repertoires** regularly to limit the habituation effect.
Each repertoire contains several signals and some work on several species.

Species to be scared off	Repertoires for distribution
Jackdaws, Rooks, Black Crows, Magpies, Jays, Robins	➔ Corvids mix ➔ **Interspecies 1** ➔ **NaturalCalls 1**
Gulls, Seagulls, Cormorants, Lapwing	➔ Seabirds mix ➔ NaturalCalls2 ➔ Interspecies 1 ➔ Annoy physio 1
Starlings	➔ Starlings mix ➔ NaturalCalls 1 ➔ Interspecies 1 ➔ Annoy physio 1
Wood pigeons	➔ NaturalCalls 1 ➔ Interspecies 1 ➔ Annoy physio 1
Diurnal birds of prey ⚠️ *The 'NaturalCalls1' repertoire contains predator calls that can attract buzzards. It should therefore not be used if you want to protect free-range poultry farms, for example.*	➔ Interspecies 1 ➔ Annoy physio 1 ➔ Corvids mix

The contents of each repertoire are described briefly below:
➔ **Corvids mix**, **Starlings mix** and **Seabirds mix** : Distress calls of the target species, modified to keep only the most effective sounds for scaring. May repel other species.
➔ **Interspecies 1** : Mixed signal creating a stressful atmosphere for many species.
➔ **Annoy physio 1** : A signal designed to confuse birds and prevent them from communicating with each other. This discomfort causes them to move away to a quieter place.
➔ **NaturalCalls 1** : Natural calls of predators and raptors such as the black kite, the common buzzard and the sparrowhawk.
➔ **NaturalCalls 2** : Distress calls from seabirds: gulls, lapwings, etc.

V. Maintenance

1. Storage of the device

The device can be stored in its original packaging when not in use.

2. Waste management

At the end of its life, the product must be recycled as used electronic equipment.

VI. Trouble-shooting

If a problem arises that is not mentioned above, or if you have any difficulties using your BirdTrac® bird repeller, please contact customer service on +33 (0)2 98 96 08 12.

Problem encountered	Possible solution(s)
The BirdTrac® is activated outside the programmed hours.	The '**luminosity**' and '**Programmable**' alarms are activated at the same time. The two alarms 'conflict' and cause the unit to malfunction. One of the two types of alarms must be deactivated. *Details in the chapter **Programming the different menus** – Menu 1 and 2.*
My device does not sound although the alarm is correctly programmed.	➢ The device is not connected to the mains. Connect the device to a mains socket using the power supplied. ➢ If the above solutions does not work, it is possible to 'reboot' the device and return to the factory settings (see Factory Settings Menu). Be careful, doing so will erase your programming (time, transmission interval, selected repertoires, etc.) *Details in the chapter **Programming the different menus** – Menu 12.*

VII. Warranty

The manufacturer's warranty is limited to one year for all purchases. The invoice serves as proof of purchase and must be kept by the buyer. Here's how to activate it :

1) If you bought your device from AgriProTech, your warranty is automatically activated.

2) If you bought your device from our network of resellers, it is very simple to benefit from the manufacturer's warranty :

1. Create your customer account at **www.AgriProTech.fr**.
2. Send us an email: The serial number of your device (see on the right), the invoice number, the date and the name of the place of purchase of your BirdTrac® bird repeller. And that's that!

This warranty covers	The manufacturer's warranty does not cover
The spare parts and supplies needed to repair defective products. Labour for the repair of defects is also included in the warranty. All defects in materials and mechanical and electronic components (e.g. defect in the BirdTrac® electronic board). The costs of transport shall be borne by the buyer.	Malfunction due to an accident, misuse of the device or negligence on the part of the user. A defect that does not prevent use (e.g. a dead pixel on the screen). Transport of the device without adequate protection. Incorrect installation of the device. Wear parts.

Defective products corresponding to the above situations will be repaired or replaced subject to prior acceptance by customer service. It is therefore imperative to get in touch before returning any product on +33 (0)2 98 96 08 12. The costs of returning the goods shall be borne by the buyer.

Warranty is no longer applicable if :
➢ The serial number of the device has been removed or changed.
➢ The malfunction does not directly affect the operation of the device (e.g. dead pixels on the screen, etc.).
➢ The memory card has been replaced with a different model than the one supplied by AgriProTech.

The warranty does not cover the efficiency of the device. Indeed, no means of scaring can guarantee 100% effectiveness because many factors come into play (pressure from birds to feed, compliance with operating instructions, etc.).

It is advisable to combine several scaring methods (kites, scaring balloons, etc.) to make the threat as realistic as possible, especially when bird activity is very high. Finally, acoustic scaring is most effective when used preventively.

To avoid habituation effect of the birds, be sure to move your BirdTrac® and change the repertoires issued regularly.

We want to know what you think!

You can send us your comments or ideas about our **WildTrac® bird repeller** by mail to 7, rue Ernest Tibulle | ZA de la Villeneuve Braouic 29300 QUIMPERLE - FRANCE by email to **contact@agriprotech.fr,** or by telephone to +33 (0)2 98 96 08 12.

The AgriProTech team thanks you.