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# AviTrac® Operating Instructions

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# How to benefit from the 1 year AgriProTech manufacturer warranty

**A. You bought your AviTrac® acoustic bird repeller directly from AgriProTech**

Your warranty is automatically activated.

**B. You bought your AviTrac® acoustic bird repeller from one of our resellers**

It is really easy to benefit from the 1 year AgriProTech manufacturer warranty:

1. Create a customer account on **www.AgriProTech.fr**.
2. Send us an email with the following details:

- Serial number of your device (silver label on the top left of the waterproof case, e.g.: **AVT-012317**)
- Invoice date and number and name and address of the reseller from which you bought your AviTrac®.

It's done!

If you have any question, please feel free to contact us on +33 (0)2 98 96 08 12 or email us at contact@agriprotech.fr .


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# AviTrac® Operating Instructions

You have acquired an AviTrac® acoustic bird repeller. These operating instructions will help you get the most out of your device. Please follow these operating instructions and keep them for future reference.

Your AviTrac® kit includes:

- ➔ An IP55 sealed electronic box containing:
  - A rechargeable battery 12V 5AH or 12V 7AH (depending on model)
  - An electronic module with a screen and keyboard
  - A memory card of repelling acoustic signals
- ➔ A removable and foldable rustproof metal chassis
- ➔ One or more speaker(s)
- ➔ A battery charger
- ➔ *As an optional extra*: a power supply or a keylock

Caution: The green seal protecting the weatherproof case must not be removed. If you remove this seal, your device will no longer be under warranty.

If you have any problems with your AviTrac® acoustic bird repeller, please seek advice from the AgriProTech customer service on +33 2 98 96 08 12 or by email at contact@agriprotech.fr.

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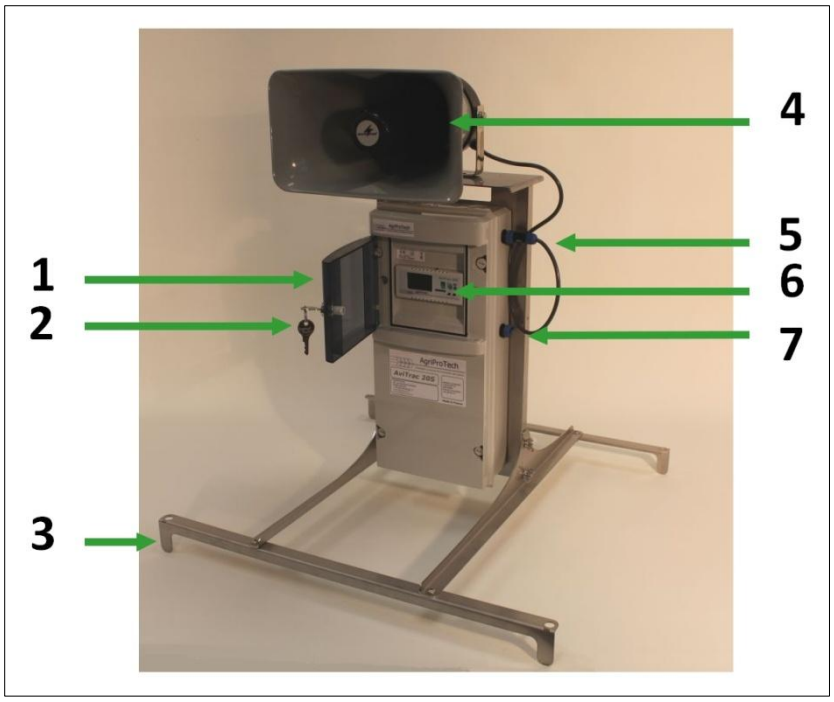
# I – The different elements of your AviTrac® acoustic bird repeller




## 1. Package

**1.** Transparent door protecting the electronic box

**2.** Key lock (optional)

**3.** Rustproof metal chassis

**4.** Speaker (may vary depending on model)

**5.** Speaker output

**6.** Electronic box *(see close-up below)*

**7.** Battery charger and power supply input

## 2. Electronic box

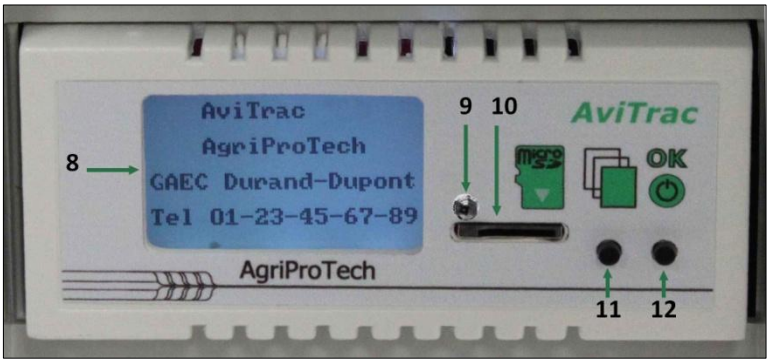
**8.** Screen

**9.** Luminosity sensor

**10.** Memory card slot

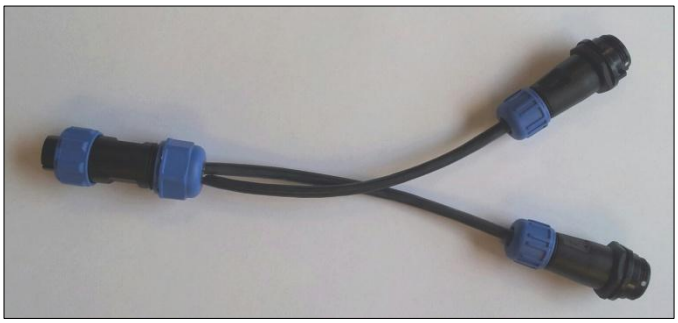
**11.** Select button

**12.** OK button




## 3. Cable for AviTrac® 18S model

**13.** Y-shaped cable

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# II - Warnings:

## 1. First use

- ➔ The battery should be fully charged before first use. If the battery level does not indicate 100% on the status screen (to access it, press Select button when on home menu), then charge the battery. Plug your device into a wall socket using your charger (the charger should be connected to input n°7, see Chapter I. 1.) for approximately 10 hours.
- ➔ Once the device is fully charged (the light on the charger becomes green instead of red), **always unplug the charger from the power outlet and from your AviTrac® device.**
- ➔ **In order to avoid battery damage, please make sure you do not let the battery fully discharge.** When the AviTrac® is used daily, recharge it **every 3 weeks** and make sure it is fully charged before you turn it off for storing when not in use.
- ➔ To turn the AviTrac® off for storing when not in use:
  - Recharge the battery completely
  - Turn the 2 alarms off ("programmable" and "light" alarms) (See chap. IV. 3.)
- ➔ The AviTrac® acoustic bird repeller should be used with caution in the presence of herds nearby, as distress signals may cause unpredictable reactions from some animals.
- ➔ The acoustic bird repeller may emit sound signals up to 120 dBA @ 1 meter. It is crucial not to stand in front of the speaker(s) when it is emitting at maximum power.
- ➔ The guarantee is not valid if the green plastic seal is not intact or if the memory card is replaced.

## 2. Sounds

Some sound signals may seem unusual; they are the result of considerable research on animal behavior. Particular tones are accentuated because they are more efficient than others.

That signals are conceived to "confuse" pest animals. Indeed, they are recognized as stressful, but the birds, unable to identify them or recognize them clearly, will end up tiring of them and will leave the protected area.

In the context of bird-scaring sounds, it is important to prevent the habituation effect. So it is necessary to vary the sounds emitted, but also the intervals between each signal. Emit only when necessary in order to maintain the efficiency of signals.

## 3. Battery charger and power supply

By default, your AviTrac® is delivered with a battery charger (ref 0911).

You can also choose a mains power supply (ref 0921) for use indoors or on fixed installation (more information is available from your usual reseller).

Neither the battery charger nor the power supply is waterproof. They must be plugged and used in a clean and dry place.

If you want to use your AviTrac® plugged into an outdoor power supply, you will have to use a waterproof cable, available in 5 meters (ref 0961) or 10 meters (ref 0962). Please do not hesitate to ask your local distributor for these references.

The charger comes with two lights that give you information about battery status:

- ➔ Red light: Battery is charging; Green Light: Battery is charged
- ➔ CAUTION: Always unplug the battery charger from the AviTrac® device and from the wall power outlet once the battery is fully charged


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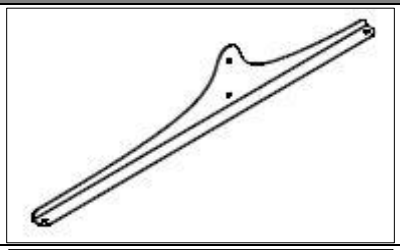
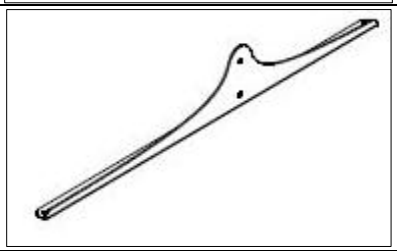
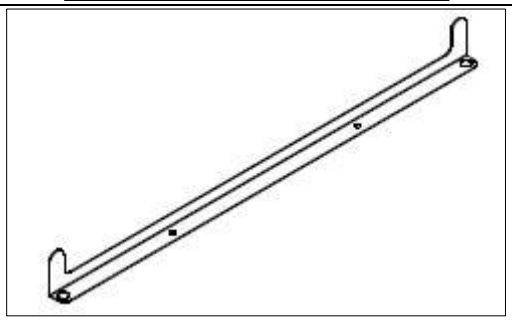
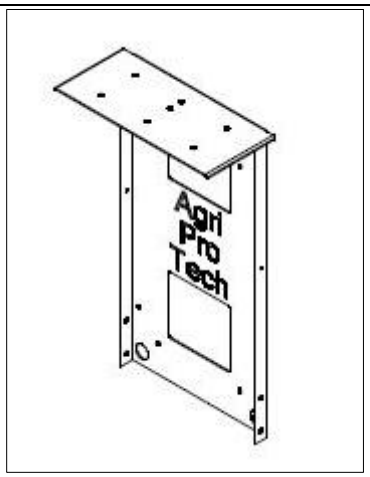
# III - Installation

## 1. Stainless steel stand

In your package, you find the parts needed to build the stainless steel chassis for your AviTrac® acoustic bird repeller. It is composed of the following parts:

| Part | Quantity | Illustration | Reference used in the illustrations |
|---|---|---|---|
| Left foot | 1 |  | **A1 (in yellow)** |
| Right foot | 1 |  | **A2 (in blue)** |
| Rails | 2 |  | **A3 (in orange)** |
| Rear plate (Already fixed to electronic box) | 1 |   | **A4** |
| *1 sachet of screws containing:* | | | |
| Hexagon nut M6 | 4 | | **B1** |
| Base screw T.B.H.C. (M6, length 10 mm) | 10 | | **B2** |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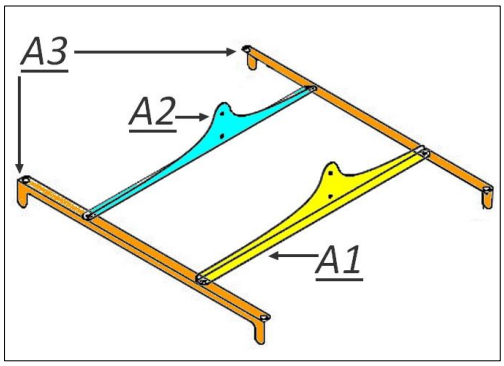
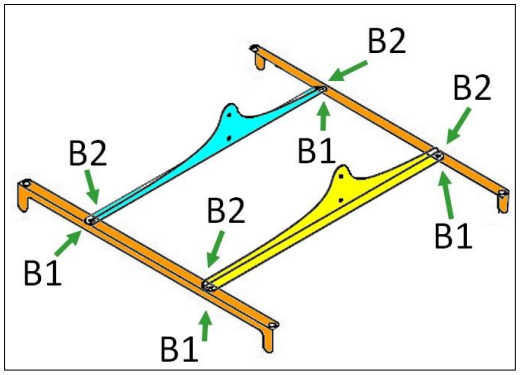
| | | | |
|---|---|---|---|
| | | | |
| Wing nut M6 | 6 | | **B3** |

To assemble the chassis, start by positioning the different elements as illustrated in the picture below:




**Picture 1 Position of the feet and rails**

Then screw the different parts together (B1 = hexagon nut and B2 = base screw):




**Picture 2 How to screw the different parts together**

Remark: It is advised to tighten the base screws (**B2**) with a 4 mm Allen wrench (see Picture **3**), not supplied.

**Picture 3 Allen wrench**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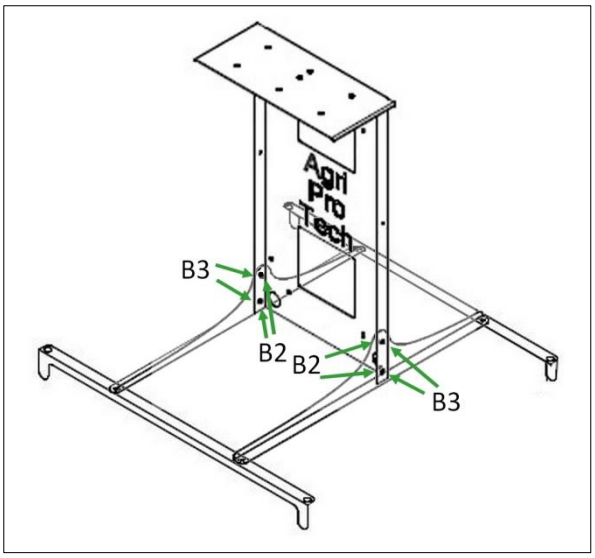
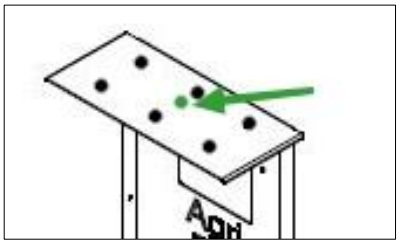
For simplicity, the electronic box is not visible in the below picture (Picture 4: B2 = Base screw and B3 = Wing nut). As the electronic box is already screwed to the rear plate, simply screw the remaining part (rear plate - A4) to the chassis, assembled in the previous step.




Picture 4 Screw the rear plate to the feet and rails

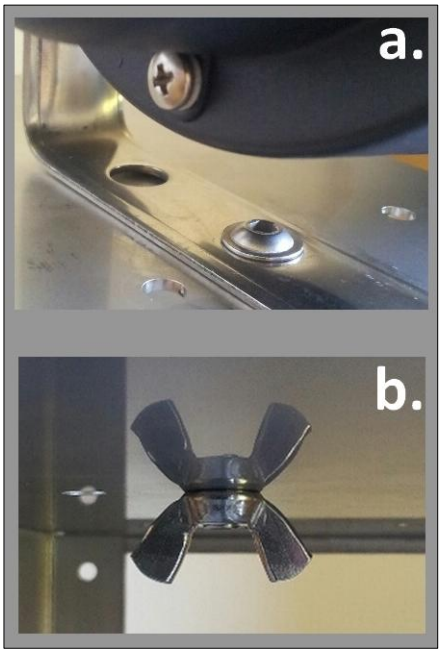
## 2.a Installation of the speaker for AviTrac® 9M and 18M

Make sure the speaker is stabilized on the top of the rear plate (above the central hole, Picture 5) and screw the screw B2 to wing nut B3 as shown in the illustrations below (Picture 6 and Picture 7). It is advised to make the speaker cable point downwards in order to reduce the risk of water infiltration into the input sockets.



Picture 5. Hole for speaker on AviTrac® 9M and 18M

Picture 6. Speaker for AviTrac® 9M




Picture 7. Wing nut position and speaker screw
a. Top view, b. Bottom view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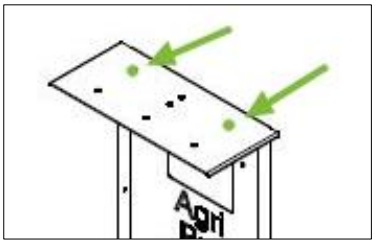
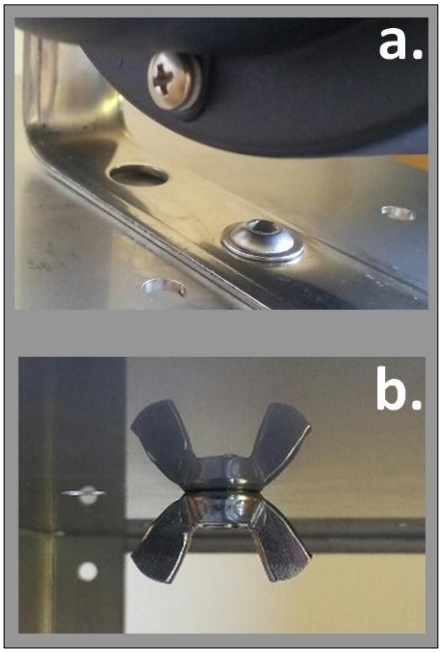
## 2.b Installation of speaker for AviTrac® 18S

Make sure the speakers are stabilized on the top of the rear plate (above the central hole, Picture 8) and screw the screw B2 to wing nut B3 as shown in the illustrations below (Picture 9 and 10). It is advised to make the speaker cables point downwards in order to reduce the risk of water infiltration into the input sockets.



Picture 8. Holes for speaker on AviTrac® 18M

Picture 9. Speakers for AviTrac® 18M



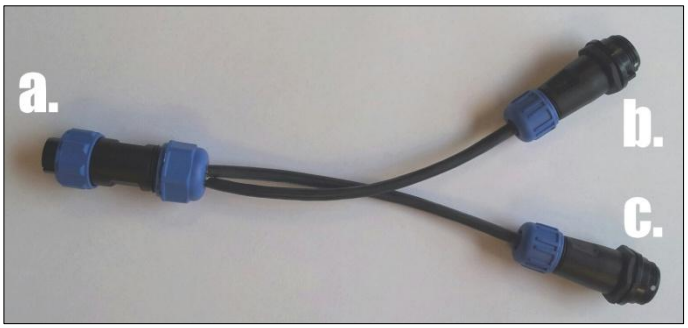

Picture 10. Wing nut position and speaker screw
a. Top view, b. Bottom view

Once the speakers are mounted on the rear plate, the Y-shaped cable can be connected to them (Picture 11 and 12).

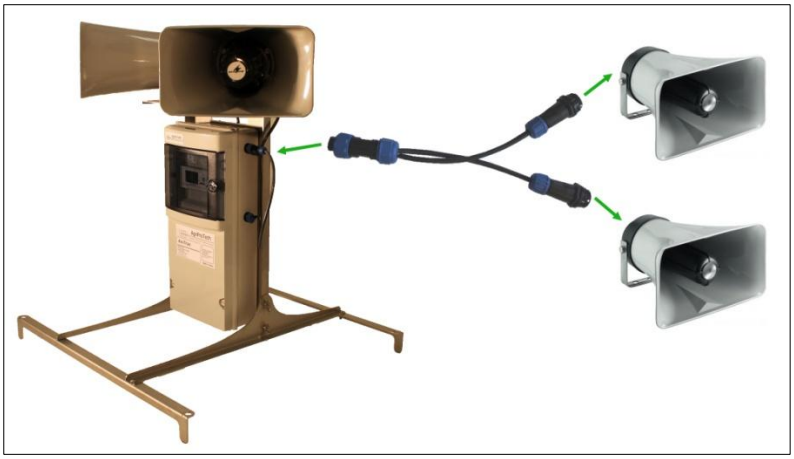
**Picture 11**:

a. This connector has to be plugged into the side of the box, in output socket n° 5 in the overall structure diagram p.-4

b. and c. Each of these connectors has to be linked to a speaker cable.




Picture 11 Y-shaped cable



Picture 12 How to connect Y-shaped cable to your AviTrac®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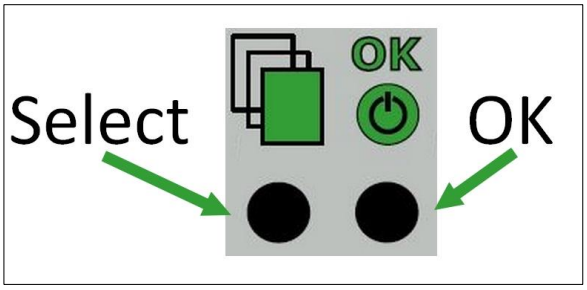
# IV - Programming

## 1. Screen and keyboard

The AviTrac® acoustic bird repeller is programmed via its screen and its two buttons. The 2 buttons are named Select and OK (Picture 13).




Picture 13 Select and OK buttons

## 2. Switching on the device

The activation of scaring signals can be programmed in two ways:

a. With the **"programmable" alarm**, you can choose the start and end times of sound emissions.

b. With the **"luminosity" alarm**, the signals activate at sunrise and stop at the end of the day, thanks to the luminosity sensor on the electronic module.

**Caution:** To avoid the emission of unwanted sound signals, it is important to choose ONE alarm: either the "**programmable**" alarm or the "**luminosity**" alarm.

To start programming the device, press and hold the OK button for 4 seconds (until the AviTrac® screen lights up). You can access the menu quickly by pressing the OK button again. Information about the device identification (version of the device and software) appears. You can switch back from this screen by pressing on the OK button again.

The "Menu" screen appears and indicates if the **"programmable"** (**a.** in the picture opposite) and "**luminosity"** alarms (**b.** in the picture opposite) are active or inactive. Once in the "Home" menu, press the Select button to browse between the different programming pages.

The first "Status" screen gives you the following information on your AviTrac® device:

- ➔ Whether the memory card is inserted or not
- ➔ Battery level in %
- ➔ Battery level in mV
- ➔ Luminosity in mV

You can press the Select button again to close this screen and browse the following menus.

Hint:

- ➔ When browsing through the different menus, you can return to the Home menu by holding down the Select button for a few seconds.
- ➔ To stop a signal which is currently being emitted, just press the OK button.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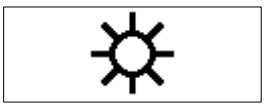
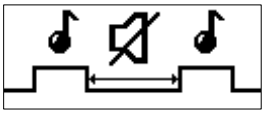
## 3. Programming the different menus

| Screen and menu name | Programming |
|---|---|
| **Activation of the "programmable" alarm**<br> | *If you wish to program the start and end time of signal emissions, activate this alarm and set the time of your choice in the next two menus.*<br>➢ Press OK button to enter this menu.<br>➢ Press OK again to choose active or inactive.<br>➢ Once you have chosen, press Select.<br>➢ Press OK button to confirm your choice and go to the next menu. |
| **Activation of the "luminosity" alarm**<br>  | *It is possible to program the AviTrac® device based on sunrise and sunset. The "luminosity" alarm needs to be activated in order for emissions to start and stop depending on the luminosity sensor data.*<br>➢ Press OK button to enter this menu.<br>➢ Press OK again to choose active or inactive.<br>➢ Once you have chosen, press Select.<br>➢ Press OK button to confirm your choice and go to the next menu. |
| **Emission of N sounds**<br>(test emission)<br> | *Via this menu, sounds can be emitted instantly without programming start and end times. It can be used as a "shortcut". To use this function you must choose the number of sounds (N) to be randomly diffused.*<br>*This menu has no impact on programming. It can be used to test an emission*<br>➢ Press OK button to enter this menu.<br>➢ Choose the number of sounds to be emitted by pressing the OK button repeatedly.<br>➢ Once the desired number of sounds is reached, press the Select button.<br>➢ Press OK button to confirm your choice and go to the next menu. |
| **Sound volume**<br> | ➢ Press OK button to enter this menu.<br>➢ Choose the desired sound volume by pressing the OK button repeatedly.<br>➢ (*Minimum: 05; Maximum: 15 = 120 dBA @ 1 meter)*<br>➢ Once you have selected the desired volume, press on the Select button.<br>➢ Press OK button to confirm your choice and go to the next menu. |
| **Sound recurrence**<br>(Interval between each signal)<br>  | *Break time setting between each signal emission (recommended: 20/30 min.)*<br>➢ Press OK button to enter this menu.<br>➢ Program the seconds by pressing the OK button repeatedly then press the Select button to validate the seconds and switch to the minutes.<br>➢ Program the minutes by pressing the OK button repeatedly then press the Select button to validate the minutes and switch to the hours.<br>➢ Program the hours by pressing the OK button repeatedly then press the Select button to validate the hours.<br>➢ Press OK button to confirm your choice and go to the next menu. |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| | |
|---|---|
| **Start alarm**<br>(programmable)<br> | ➢ Press OK button to enter this menu.<br>➢ Program the seconds by pressing the OK button repeatedly then the Select button to validate the seconds and switch to the minutes.<br>➢ Program the minutes by pressing the OK button repeatedly then press the Select button to validate the minutes and switch to the hours.<br>➢ Program the hours by pressing the OK button repeatedly then press the Select button to validate the hours.<br>➢ Press OK button to confirm your choice and go to the next menu. |
| **Stop alarm**<br>(programmable)<br> | ➢ Press OK button to enter this menu.<br>➢ Program the seconds by pressing the OK button repeatedly then press the Select button to validate the seconds and switch to the minutes.<br>➢ Program the minutes by pressing the OK button repeatedly then press the Select button to validate the minutes and switch to the hours.<br>➢ Program the hours by pressing the OK button repeatedly then press the Select button to validate the hours.<br>➢ Press OK button to confirm your choice and go to the next menu. |
| **Device time**<br>(current time)<br> | ➢ Press OK button to enter this menu.<br>➢ Program the seconds by pressing the OK button repeatedly then press the Select button to validate the seconds and switch to the minutes.<br>➢ Program the minutes by pressing the OK button repeatedly then press the Select button to validate the minutes and switch to the hours.<br>➢ Program the hours by pressing the OK button repeatedly then press the Select button to validate the hours.<br>➢ Press OK button to confirm your choice and go to the next menu. |
| **Sound selection**<br> | *Choice of repertoires of sounds to be emitted depending on the targeted species (see section IV, paragraph 5).*<br>➢ Press OK button to enter this menu.<br>➢ The names of the repertoires are displayed.<br>➢ To select or deselect a repertoire to be emitted, press on OK.<br>➢ An arrow appears in front of the name of the repertoire when it is selected and the arrow disappears when it is not selected.<br>➢ Press the Select button to validate the choice of a repertoire and go to the next one.<br>➢ Repeat this action until the end of the repertoire scroll and the request for confirmation.<br>➢ Press OK button to confirm your choice and go to the next menu. |
| **Language selection**<br> | ➢ Press OK button to enter this menu.<br>➢ Use OK button to move through the language list<br>➢ Once the language of your choice appears on the screen, press Select<br>➢ Press OK button to confirm your choice and go to the next menu. |


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| | |
|---|---|
| **Screen contrast**<br> | *Adjustment of the screen contrast.*<br>➢ Press OK button to enter this menu.<br>➢ Press OK to select the contrast of your choice.<br>➢ Press Select to validate your choice.<br>➢ Press OK to confirm your choice and go to the next menu. |
| **Factory settings**<br> | ➢ Press OK button to enter this menu.<br>➢ Press OK again to erase programming settings and restore original settings: the message "Erasure!!!" appears.<br>➢ If you do not wish to restore the original settings of the device, choose to retain the programmed settings: the message "Retain settings" appears.<br>➢ Once you have chosen the desired action, press on Select.<br>➢ Press OK button to confirm your choice and return to the main menu. |

## 4. Emission intervals

It is important not to emit more sounds than necessary. Animals have a highly developed sense of observation; if the signals are emitted too often, they may be liable to quickly acclimate to them. The aim is to surprise the birds and other undesirable animals and to make the emission area hostile.

The minimum recommended sound signal emission interval is 20-30 minutes. However, for short periods, it is possible to reduce this interval.

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

## 5. Choice of emitted sounds

Several repertoires are available in the "Selection of sounds" menu. You can select the repertoires to be emitted depending on the species to be scared, according to the table below.

| Species to be scared | Repertoires to emit |
|---|---|
| **Jackdaws, Ravens, crows, , Magpies, Jays** | ➔ Synthesis Corvids<br>➔ Interspecific 1<br>➔ NaturalCalls 1 |
| **Gulls, Seagulls, Cormorants** | ➔ Synthes Seabirds<br>➔ NaturalCalls 2<br>➔ Interspecific 1<br>➔ Discomfort 1 |
| **Starlings** | ➔ Synthes Starlings<br>➔ NaturalCalls 1<br>➔ Interspecific 1<br>➔ Synthesis Corvids<br>➔ Discomfort 1 |
| **Pigeons, Turtledoves** | ➔ NaturalCalls 1<br>➔ Interspecific 1<br>➔ Discomfort 1 |

To reduce the habituation effect, it is important to vary the emitted sounds, but also the intervals between each signal. Emit only when necessary to maintain the efficiency of the signals. To continue to surprise the birds, it can be useful to move the device regularly, even if only by a few meters.


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# V - Maintenance

## 1. Storage of the device and maintenance of the battery

- The battery should be fully charged before first use.
- **When the device is not in use, the alarms should be deactivated and the battery fully charged before being placed in storage.** It is also preferable to unplug the speaker(s) during the storage period.
- Finally, when not in use, the device should be stored in its original packaging.
- **In order to avoid battery damage, please make sure you do not let the battery fully discharge.** When the AviTrac® is used on an everyday basis, recharge it **every 3 weeks** and make sure it is fully charged before turning it off for storing when not in use.
- Once the device is fully charged (the light on the charger becomes green instead of red), **always unplug the charger from the power outlet and the AviTrac® device.**

## 2. Disposal

When this product reaches the end of its useful life, it must be recycled as used electronic equipment. The battery is fully recyclable.

# VI – Troubleshooting

| Problem encountered | Possible solution(s) |
|---|---|
| The AviTrac® acoustic bird repeller is emitting outside programmed time slot. | The **"luminosity"** and **"programmable"** alarms are activated at the same time. Both alarms are "in conflict" and cause the device to malfunction. One of the two alarms must be deactivated.<br><br>*More info:*<br>Section IV – Paragraph 3. |
| My device does not emit any sounds despite the alarm being correctly programmed. | ➢ **If the "Sound recurrence" is programmed to 20 minutes, the first signal will be emitted 20 min after being programmed**<br>➢ The sound card is not correctly inserted<br>➢ The speaker is not properly connected<br>➢ The battery needs recharged<br>➢ If none of the above solutions work, it is possible to "restart" the device and to restore factory settings (see Factory Settings menu).<br>Caution, this action will erase your programming (times, emission interval, repertoires selected, etc.)<br><br>*More info:*<br>Section I – Paragraphs 1 & 2.<br>Section IV –Paragraph 3. |

If a problem not mentioned above occurs or if you have difficulty in using your AviTrac® acoustic bird repeller, please contact customer service on +33 (0)2 98 96 08 12.

To stop sound emissions without adjusting the programming of the electronic module, simply unplug the speaker or press the OK button.


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## VII - Warranty

The manufacturer warranty is limited to one year for all purchases. The invoice serves as proof of purchase and must be retained by the purchaser.

This warranty covers:

- Spare parts and supplies needed to repair defective products for one year.
- All defects in mechanical and electronic materials and components (defect in the AviTrac® electronic box); exclusive of all wear parts (rechargeable batteries…).

Defective products which comply with the above criteria will be repaired or replaced subject to prior acceptance by customer service.
Before returning any product, you must contact customer service on+33 (0)2 98 96 08 12.

The manufacturer warranty does not cover:

- A failure due to accident, misuse of the device or negligence by the user.
- A failure due to transportation of the device without adequate protection.
- Incorrect installation of the device.
- The battery

It is no longer applicable if:

- The serial number of the device has been removed or modified.
- Security seals have been removed or deteriorated.
- The device has been disassembled.
- The failure does not directly affect the functioning of the device (e.g.: dead pixels on the screen…).
- The memory card has been replaced by another model other than that provided by AgriProTech.

The warranty does not cover the efficiency of the device. It is important to note that no scaring method can guarantee 100% efficiency because many factors are at stake (pressure of birds for food, compliance with operating instructions, etc.).

It is recommended to combine several scaring methods (kites, scaring balloons...) to make the threat as realistic as possible, especially when bird pressure is very high. Finally, the acoustic bird repeller is more effective when it is used preventively.

**To prevent a bird habituation effect, remember to move your AviTrac® device, even by a few meters, and change the programmed sounds regularly (at least once a week).**

We want to hear from you!

You can give us your feedback
or ideas about the **AviTrac®** acoustic bird repeller
by mail at 7, rue Ernest Tibulle, ZA de la Villeneuve Braouic
F-29300 QUIMPERLE - FRANCE
or by email at **contact@agriprotech.fr**,
or by phone on +33 (0)2 98 96 08 12.

Many thanks for your trust and purchase,

The AgriProTech team


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