

MagicTrap Guide

This guide contains information on commonly asked questions, however there is an extensive support website at the link below.

<https://support.magicscout.app/hc/en-gb/categories/7555714742941-MagicTrap>





Setup and installation

Charging - [link](#)

- If you are taking the trap out of storage or using it for the first time it is recommended to fully charge the camera module before putting it into the field.
- To charge the module it must be switched on and plugged in with the provided charging cable.
- The charging port and power button can be accessed by unscrewing the two bolts and removing the panel on the side of the module.





Checking battery and signal strength

The LED display on your MagicTrap not only provides information about the remaining battery charge but also shows you whether your MagicTrap is successfully connected to the MagicScout app and how good your mobile signal is at the installation location.



To check battery level, press the function button on the side of your device once or check it directly in the app:

- Three green lights: > 70 % charge level
- Two green lights: 31-70 % charge level
- One green light: 25-30 % charge level
- One red light < 25 %

Function button



To check signal strength, press and hold the function button on the side of your device until the LEDs start flashing:



- 1 blue lamp lights up: Poor signal strength
- 2 blue lamps light up: Signal strength medium
- 3 blue lamps light up: Signal strength good

Important: Please [reset your trap](#) if it is receiving a weak signal or only "EDGE" so that it can send images reliably.



Positioning Magic Trap

- We recommend placing the trap near the edge of the field, within the first tramline, so that it is easy to maintain and retrieve when you want to bring it in for storage.
- If there is a location in the field that is exposed to prevailing wind or near sheltered areas that migrations could occur from, these can be good locations for the trap.
- In the autumn the trap can be placed at ground level.
- In the spring the trap can be attached to a pole using the bracket and cable ties supplied to keep the trap at, or just above, crop height.

Note: Once the trap is in the field you can force it to take an image by turning the trap off and on again with the power switch that you'll find below the cover on the camera module. This is a good way to check that the trap has signal to send images and the image quality.



Maintenance - Link

The MagicScout application provides important information about the **maintenance requirements** of your MagicTrap.

What can you do to ensure the best possible image analysis?

You will be automatically notified in the MagicScout application if the optimum image analysis is not guaranteed.

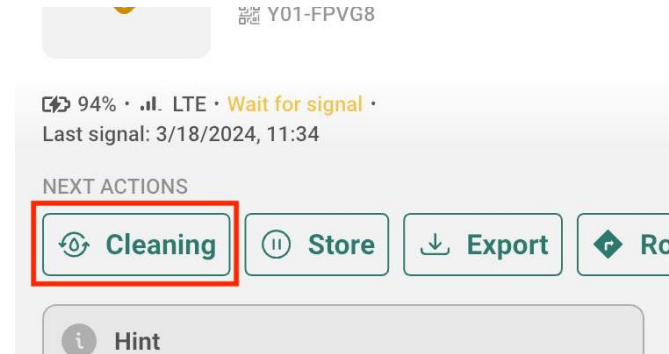
- **No status:** Everything is OK, you do not need to action anything at the moment.
- **Yellow - Warning - Limited analysis:** Please check your MagicTrap for one of the influencing factors listed on the next page. The best possible image analysis is currently only possible to a limited extent.
- **Red - Critical - No analysis possible:** Attention, please check your MagicTrap for the influencing factors listed on the next page. Image analysis is currently not possible.



Maintenance - cleaning

One of the most common reasons for getting a yellow or red warning is due to contamination of the trap. Particularly after heavy rain if the trap is at ground level. Please ensure the trap is monitored throughout the season and cleaned regularly to ensure maximum accuracy. After cleaning make sure the cleaning is logged in the app.

- We recommend cleaning the trap at least every 14 days or sooner if water becomes very dirty.
- The trap should be emptied and cleaned with a cloth or brush to remove any dirt.
- Refill the trap with approx. 1ltr water with a small amount of detergent added to it.
- Adding detergent to the water helps to reduce the surface tension of the water so the insects remain caught and will help keep the water clean.
- During the autumn when the trap is at ground level, placing the trap on something such as a thin tile or sheet can help keep the trap clean by reducing the amount of soil splashed into the trap by rain. However, make sure the trap is not raised off the ground as this may affect the number of insects caught.





Maintenance continued

The following factors that can impact image collection are analysed by the Magic Trap. Click on the relevant link for more information on how to manage those issues.

- [Visibility](#)
- [Placement](#)
- [Clarity](#)
- [Contamination](#)
- [Fill level and catches](#)
- [Foam](#)
- [Icing & Snow](#)
- [Water level](#)



When to use Magic Trap

Summer (Jun-Jul)

- Traps can be placed in OSR fields pre and post-harvest to get an indication of CSFB emergence levels and likely pressure

Autumn (Aug-Nov)

- Placing traps in fields where OSR is going to be drilled, or has recently been drilled, can allow CSFB migration to be monitored

Winter (Dec-Feb)

- Bring your trap in to protect from frost

Spring (Mar-May)

- In order to monitor pollen beetle, we recommend putting traps back out from early-March onwards just prior to first expected pest activity which should occur when temperatures reach about 5°C. However, if there is a longer **frost period** forecast where temperatures could be getting to -5°C for up to week then it is recommended to bring the trap in to avoid damage to the camera module.