

BeeVS at Aspromiele



15 June 2017 – Four months after the Banca Etica's crowdfunding closure, the Aspromiele association receives the first of the two financed BeeVS systems. The

delivery of the system, welcomed with great curiosity by the public, took place in Rivalta (Torino) in the presence of the beekeeping technicians Luca Allais, Andrea Fissore and Gianluigi Bigio from Aspromiele.

A simulation of the hive tray Varroa counting was also performed on a populated hive. The counting process is simple and intuitive.



The BeeVS is charged at 12 V and can use a 12 V battery, the power distribution network and a transformer/adaptor, or the car cigarette lighter.

The beekeeper must prepare 24-48 hours in advance the A3 white paper sheets or adhesive paper sheets to be placed at the bottom of the hives over the tray. Regardless of the paper type, make sure to only use white paper. The hives must be labeled with the QR code provided.

In order to start the Varroa counter, it is enough to plug it and it will boot like a normal PC, but without the need to push any button.

The LEDs on the front of the device indicate with a T or an I, the connection status of the BeeVS to the remote control (a smartphone) and the Internet connection status (if the mobile radio network coverage is available).



In order to remote control the device with the phone, one has to point the browser to a specific site (no app installation needed).



This way, any smartphone can be used provided it has a video camera.

These screens depict the

welcome page of the remote control center.

To start the Varroa count, one must select the "scansione vassoio (tray scan)" from the remote control menu.

At this point, it is sufficient to perform these simple steps:

1. insert the tray of the hive to be evaluated into the BeeVS device;
2. point the video camera of the phone to the QR code of the hive;
3. wait until the scanning is performed and repeat steps 1 and 2 for any further scans.

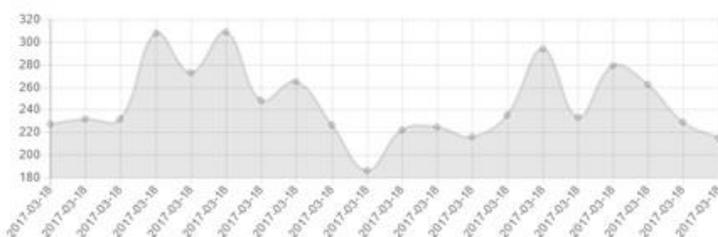


At this point, the Varroa count is performed for all trays and no further actions from the beekeeper are required.

The BeeVS allows the beekeeper to perform a routine operation without any or very little effort and gives a precious help to fight the Varroa infestation with the most effective treatment.

Furhtermore, BeeVS stores the Varroa history count of each hive, which can be graphically visualized on our site <https://www.apisferoweb.it>.

Andamento delle Varroee (ultime 20 scansioni)



We hope the BeeVS tool can be used in future as part of a standard protocol to restraint the Varroa infestation in Europe.

During the next weeks, thanks to the first scans at Università di Torino and Aspromiele, the precision of the Varroa counting process will be further improved.

We thank Aspromiele and all the supporters who follow us and continue to support the research group APISFERO. Today, beekeeper technicians from Aspromiele can forget about the old naked eye counting of Varroa and, to paraphrase Neil Armstrong, 'A short flight for a bee, a long flight for a beekeeper'.

The Next APISFERO flight

By the beginning of summer holidays we hope to be able to deliver other BeeVS devices! In any case, all supporters who were promised the Varroa counter will receive it prior to the deadline, which was set to the end of 2017.

It is possible to continue supporting our project on our site through paypal or bank transfer: APISFERO A.P.S: Banca Popolare Etica. IBAN: IT47N0359901899050188538029.



Beekeeper at work – P.K.

“Art does not reproduce the visible *but* makes it visible.”
(Paul Klee)