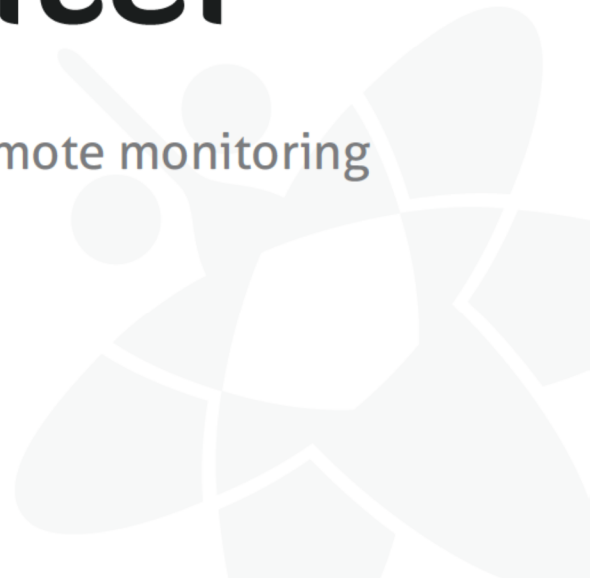# BG - Counter

The first commercially available remote monitoring decive for mosquitoes

The BG-Counter: Mosquito Counting from Anywhere

The BG-Counter upgrades your Biogents trap to a remote monitoring station that offers automated mosquito counting from anywhere at any time.

The innovative smart device differentiates mosquitoes from other insects, counts them, and wirelessly transmits the results to a cloud server.

Via the web application you can manage your mosquito traps and get new insights into daily activity patterns, adult density indices, population dynamics, and effectiveness of your control activities.

- **Automatic reports of mosquito counts**
- **Trap management from the office**
- **Collection of local environmental data**

Data are transferred to a webpage that can be accessed via PC, smartphone, or tablet.

BG-Counter with a BG-Trap Station and CO_2 source. The station can run on solar power (the solar panel is not displayed here).

Advantages

Detailed data for every 15 min interval allow you to better understand the local mosquito activity patterns and enable you to better and cheaper control mosquitoes. Additionally, remote monitoring saves time and manpower.

- **Better treatment timing**
- **More effective treatment**
- **Better control for less money**

- **Manage your trap from the office**
- **Spend less time on trap visits**
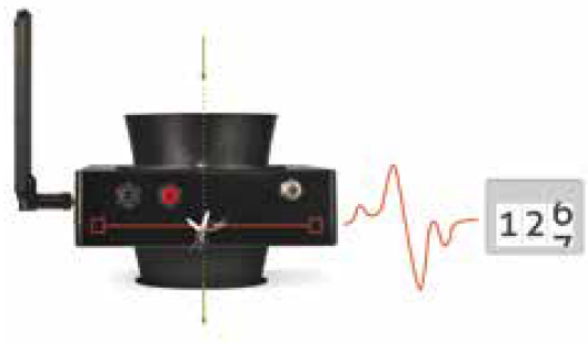- **No need to count the mosquitoes**

Based on a Biogents mosquito trap, the BG-Counter enables real-time measurements as well as prediction models and historical analyses of infested areas. Vector control professionals can now establish surveillance programs with unprecedented data density and accuracy, overcoming labor constraints associated with manual inspection.

Features in Detail

The **BG-Counter counts mosquitoes** while they are sucked into the trap and differentiates them from other insects or dust particles. Mosquito counts with an accuracy of 90% were established in field tests when working with CO_2 as an attractant.

A **web application** allows you to remotely access the data and retrieve alerts in real-time. The app enables you to switch your traps on and off from your office, or to set up varying time schedules for trap functioning and CO_2 addition.

The web-based database for storage of mosquito counts, geospatial, and environmental data (temperature, humidity, and light), is automatically updated. The data can be exported to Excel at the push of a button.

Technical Details

The heart of the BG-Counter is a highly integrated printed circuit board which incorporates:
- an infrared sensor
- environmental sensors for temperature, relative humidity, and ambient light
- a cellular module for communication with the web server
- an SD card for onboard data storage, fan, and CO_2 valve control
- two powerful microprocessors for control and communication

The patented insect sensor consists of arrays of infrared LEDs and light detectors that provide reliable and sensitive detection and differentiation of moquitoes from other objects entering the trap.

This technology was developed by onVector Technology in collaboration with Biogents.

BG-Pro and the BG-Counter: the optimal combination

Biogents' new BG-Trap Station is a robust shelter for your BG-Counter and optimized for use with the BG-Pro trap.

The BG-Trap Station

- is made of stainless steel
- protects your BG-Counter from weather
- can be deployed in any type of terrain

BG-Counter with a BG-Trap Station and CO_2 source. The station can run on solar power (the solar panel is not displayed here).

ENGINEERED IN
GERMANY

ECO-FRIENDLY

SCIENTIFICALLY PROVEN

Biogents

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