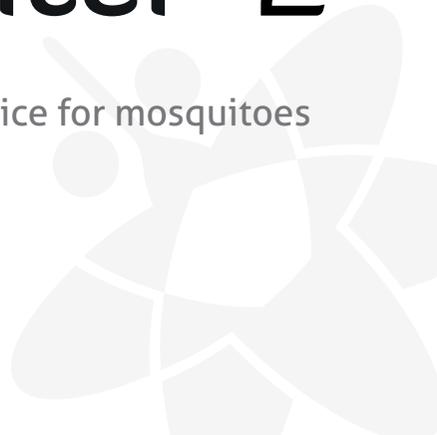




# BG - Counter 2

A high tech remote monitoring device for mosquitoes



# The BG-Counter 2: Mosquito Counting from Anywhere

The BG-Counter 2 offers remote monitoring with automated mosquito counting from anywhere in the world at any time with online software and data analysis.

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 2 with a BG-Trap Station and CO<sub>2</sub> 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 control mosquitoes more effectively and economically. 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

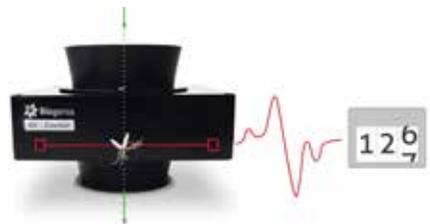
Based on a Biogents mosquito trap, the BG-Counter 2 enables real-time measurements as well as prediction models and historical analyses of infested areas. Vector control professionals can now establish surveillance programs with unprecedented data density and accuracy, overcoming labor constraints associated with manual inspection.

## Features in Detail

The **BG-Counter 2 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<sub>2</sub> 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<sub>2</sub> 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 2 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<sub>2</sub> 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 mosquitoes from other objects entering the trap.

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

The BG-Counter 2 is the next generation version of the BG-Counter. It offers several improvements over the previous model such as an internal antenna, improved protection against corrosion and environmental influences, and a better insect classification accuracy through improved algorithms. The BG-Counter 2 has a 4G Cellular Communication Module, works on the LTE cellular network and is not affected by eventual sunset of 3G networks.

## BG-Counter 2 and BG-Trap Station: the Optimal Combination

Biogents' new BG-Trap Station is a robust and ideal shelter for your BG-Counter 2 and is used with the BG-Counter 12 V fan.

The BG-Trap Station

- is made of stainless steel
- protects your BG-Counter 2 from environmental conditions
- can be deployed in any type of terrain



*BG-Counter 2 with a BG-Trap Station and CO<sub>2</sub> source. The station can run on solar power (the solar panel is not displayed here).*

ENGINEERED IN  
GERMANY 



**Biogents**

Contact: E-Mail: [sales@biogents.com](mailto:sales@biogents.com) | Webpage: [www.biogents.com](http://www.biogents.com)  
Biogents AG | Weissenburgstr. 22 | 93055 | Regensburg | Germany