PATS-C

PRECISION MOTH MONITORING

Automate moth detection and gain insight into pest behaviour before outbreaks occur.
PATS-C identifies adult moth activity 24/7, helping you act precisely when larvae are about to appear, reducing surprises, saving time, and improving crop health.

Why it matters

Every pest outbreak has a starting point. PATS-C helps you find it before it grows. By combining constant field data with smart insights, it turns complex pest patterns into clear action points. Whether you're protecting tomatoes, peppers, or ornamentals, PATS-C gives you reliable information to fine-tune interventions, keep your strategy efficient, and stay in control of your crop.

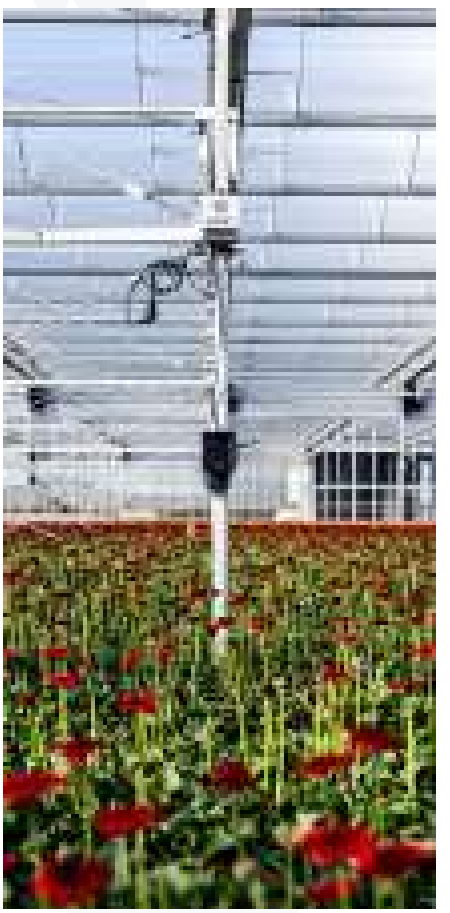
- 24/7 Monitoring
- Precise Timing
- Healthier Crops
- Fewer Interventions

How it works

PATS-C tracks moth activity through the night and instantly uploads data via 4G connectivity. Built-in software maps each pest generation, turning raw observations into clear insights on your dashboard. No more manual counts, just reliable data to fine-tune control strategies and stay ahead of pressure.

Benefits for our users

- Early alerts for incoming generations
- Weekly summary reports by email
- Behaviour insights from day + night data
- Trend tracking to predict caterpillar peaks
- Fewer surprises, more control
- Integrates seamlessly with the PATS-C Dashboard, Vinder, and Kalendar for one complete workflow.
- Improves communication between growers, crop consultants, and IPM advisors through shared data access.



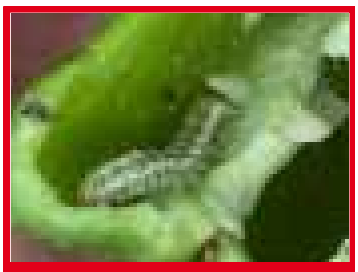
Pest we keep an eye on

We currently monitor the following pests in 25+ crops, including:

- Tomato looper-*Chrysodeixis chalcites*
- European pepper moth-*Duponchelia fovealis*
- Banana moth-*Opogona sacchari*
- Tomato leafminer-*Tuta absoluta*
- Diamondback moth-*Plutella xylostella*
- Cotton Bollworm-*Helicoverpa armigera*
- False codling moth- *Thaumatotibia Leucotreta*
- Snout moth-*Sufetula diminutalis*
- Potworms- *Lyprauta spp.*

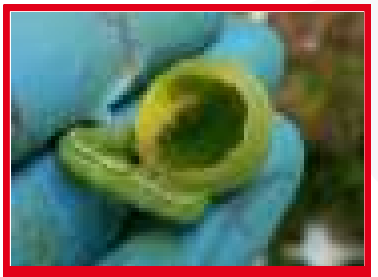
European pepper moth
Duponchelia fovealis

...and many more!



Cotton Bollworm
Helicoverpa armigera

Zebra thrips
Candidatus Liberibacter



Tomato looper
Chrysodeixis chalcites

Crops in scope

PATS-C performs in every protected cultivation system, from high-tech glasshouses to simple tunnels. By monitoring the airspace, it works independently of plant structure or growth stage and delivers accurate pest insights for any IPM program.

Active in 20+ crops, including tomato, pepper, cucumber, strawberry, rose, gerbera, and a wide range of vegetables, fruits, and ornamentals.

FROM DETECTION TO ACTION

Turn pest insights into timing, planning, and teamwork with PATS-Vinder and PATS-Kalendar.
These features, help you act at the right moment and keep your IPM strategy ahead of pest pressure

PATS-Vinder
Mobile app

Log what you see
Record photos and notes directly in the greenhouse.

Confirm predictions
Verify predicted larvae peaks and improve forecast accuracy.

Collaborate easily
All observations sync with the PATS Dashboard for your whole IPM team.

Scan & Install
manage hardware devices like PATS-C's and Trap-Eyes™

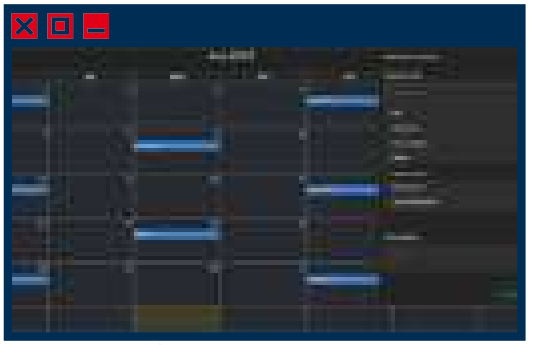
PATS-Kalendar
Digital logbook

Track results
Compare pest activity with your crop actions over time.

Work seamlessly
Fully connected with PATS-Vinder and the PATS Dashboard.

Sync with the digital calendar
Integrates with Outlook and Google Calendar for easy scheduling.

Plan interventions
Translate pest predictions into precise action timing.



IMPACT & REACH

The PATS-C system is active in 25 crops
monitoring 20+ moth pests
servicing 1.000+ hectares in greenhouse horticulture
in 25+ countries

TECHNICAL SPECIFICATIONS PATS-C

Camera box dimensions
16 cm L x 14 cm W x 16 cm H

Connectivity
4G SIM (provided)

LED module dimensions
11 cm L x 12 cm W x 22 cm H

Camera
Intel RealSense
(stereovision)

Weight
3 kg

Memory
500GB

Installation material
provided with delivery

Transmission interval
1x per day (morning)

Power supply
1 socket / 100-
240v (50/60Hz)

Power cable
2 - 10 m (included)

Dashboard access
www.pats-c.com

Installation time
5-10 minutes

WHAT CUSTOMERS SAY

"We thought we could start the crop cycle with a zero measurement, without moths. But when we installed the PATS-C detection system, we immediately noticed activity being monitored. So we were actually already too late. This means that we now see the Tomato looper moth one or two generations earlier than previously, without camera monitoring" **Chris Bos - Kwekerij het Westland - Bell pepper grower**

"With PATS-C we were able to detect Duponchelia moths already in April of this year. At that moment I did not yet catch any adult moth in the UV- and pheromone traps I was using at that moment. The pest was present much earlier than I expected. These insights and alerts can help me react more timely and adequately on rising pest levels."
W.P. van den Berg - Gerbera United - Gerbera grower

"This season we started the crop in January. In parallel, we started monitoring with PATS-C. Earlier detection of Tuta absoluta and Tomato looper pests is certainly useful. It aids our IPM program as it makes us more alert, apart from the weekly scouting which we already perform. We now know what to look for and when to look for it, making our searches for potential Tuta absoluta hotspots more targeted."
Astrid Sneyders - Hortipower (Tomeco) - Crop Manager

FREQUENTLY ASKED QUESTIONS

What is the range of the system?

One PATS-C system observes approximately 100 m² and samples moth flight activity to map population development trends. While this represents only a fraction of the total growing area, it delivers reliable insights. Because moths are highly mobile and spread their eggs throughout the greenhouse, even a small monitored area is enough to generate accurate trends. As a result, a single PATS-C unit is sufficient to monitor moth pests across up to 2 hectares (around 5 acres).

How many systems should I install?

One PATS-C system is typically suitable for monitoring up to 2 hectares within a single greenhouse section, depending on the crop, surface area, and layout. For example, a large tomato grower with a single 10-hectare compartment would need 5 systems. A cucumber grower with a 3-hectare greenhouse can operate effectively with 2 systems. In contrast, an orchid grower with 5 separate compartments ranging from 4,000 to 15,000 m² requires one PATS-C system per compartment, as each functions as a distinct ecosystem. In such cases, 5 systems are necessary to ensure reliable coverage and accurate insights.

Can you also monitor other and smaller pests?

PATS-C detects flying insects from around 5 mm and up, with a main focus on moth pests. Other species currently monitored include bumblebees (for pollination) and Lyprauta. We're continuously expanding detection capabilities to classify more insect types, increasing system value over time. While monitoring started with nighttime activity, we're moving toward full 24/7 coverage. All improvements are delivered via free over-the-air updates, so your system keeps getting better.

Other Questions?
Reach out to PATS via

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