



bkeeprz

PROTECTING BEES. PRESERVING TOMORROW.

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AI-POWERED PROTECTION
AGAINST THE ASIAN HORNET

Bkeeprz is an innovative AI Vision platform designed to protect honey bees from the invasive Asian Hornet.

Our system automatically detects and selectively neutralises Asian Hornets in real time – 24/7 – without harming bees or other beneficial insects.

By combining advanced artificial intelligence, precision laser technology and smart connectivity, Bkeeprz helps beekeepers safeguard their colonies, support biodiversity and build a more sustainable future.



PROTECTS
HONEY BEES



SELECTIVE &
PRECISE



24/7
AUTONOMOUS
PROTECTION



SMART
CONNECTIVITY



SUPPORTING
BIODIVERSITY



SMARTER TECHNOLOGY. HEALTHIER COLONIES. A SUSTAINABLE FUTURE.



WHO WE ARE

PROTECTING THE FUTURE OF POLLINATORS

Honey bees are essential to life on Earth. They pollinate more than **75%** of the world's crops and play a vital role in maintaining biodiversity and healthy ecosystems.

Today, they face a growing and serious threat: the invasive **Asian Hornet** (*Vespa velutina*).

At Bkeeprz, we combine advanced technology and a deep respect for nature to help beekeepers **protect their colonies** and build a more sustainable future.



OUR MISSION

To protect honey bees through innovative technology while contributing to a healthier ecosystem and a more sustainable future for beekeeping worldwide.

OUR CORE VALUES



INNOVATION

We push the boundaries of technology to solve real-world challenges.



SUSTAINABILITY

We develop solutions that protect nature and support future generations.



PRECISION

Our technology is accurate, selective and designed to do no harm.



BIODIVERSITY

We protect not only bees, but the entire balance of our natural ecosystems.



RELIABILITY

We build robust systems you can count on, every hour of every day.



CONTINUOUS IMPROVEMENT

We learn, adapt and evolve to deliver better results every day.



TOGETHER, WE CAN SECURE A HEALTHY FUTURE FOR **BEES**, **PEOPLE** AND OUR **PLANET**.



THE CHALLENGE

THE ASIAN HORNET

A GROWING THREAT TO BEES AND BIODIVERSITY

The Asian Hornet (*Vespa velutina*) is an invasive species that continues to spread rapidly across Europe.

This predator targets honey bees and other pollinators, causing severe damage to beehives, reducing honey production and threatening entire ecosystems.

Traditional control methods are labour-intensive, expensive and often fail to provide the continuous protection beekeepers need.

THE IMPACT

**HIVE LOSSES**

Up to 50–80% of colonies can be lost in heavily affected regions.

**ECONOMIC DAMAGE**

Millions of euros in annual losses across the European beekeeping sector.

**BIODIVERSITY UNDER PRESSURE**

Fewer pollinators mean fewer fruits, vegetables and wild plants.

**RAPID SPREAD**

Active in more than 15 European countries and still expanding.

**HUMAN RISK**

Nests built in urban areas pose a risk to people and pets.

WHY CURRENT METHODS FALL SHORT

- ✗ Traps are not selective and have limited effect.
- ✗ Manual nest removal is dangerous and expensive.
- ✗ Pesticides harm beneficial insects and the environment.
- ✗ No 24/7 protection at the hive entrance.
- ✗ Monitoring is often not real-time or accurate.

WHY BKEEPRZ

- ✓ **AI DETECTION** Identifies the Asian Hornet with high accuracy.
- ✓ **LASER PRECISION** Targets only the hornet, not the bee.
- ✓ **CONTINUOUS PROTECTION** 24/7 autonomous operation.
- ✓ **REAL-TIME MONITORING** Data-driven insights and alerts.
- ✓ **SELECTIVE SOLUTION** Safe for bees and other pollinators.



Bkeeprz protects what matters most:
the honey bee.



WE DON'T FIGHT NATURE. WE **PROTECT** IT.



OUR TECHNOLOGY

INTELLIGENT PROTECTION AROUND THE CLOCK

Bkeeprz combines advanced AI Vision, edge computing and precision laser technology to protect beehives 24/7 — automatically and selectively.



HOW BKEEPRZ WORKS



1 DETECTION

A high-resolution camera continuously monitors activity at the hive entrance.



2 AI RECOGNITION

Advanced AI algorithms identify the Asian Hornet in real time.



3 TARGET VERIFICATION

The system verifies the target to ensure only the hornet is selected.



4 SELECTIVE NEUTRALISATION

A precision laser neutralises the hornet quickly and humanely.



5 CONTINUOUS LEARNING

Performance data is stored and analysed to continuously improve detection accuracy.

KEY FEATURES



AI VISION

Deep learning algorithms identify the Asian Hornet with high accuracy.



EDGE COMPUTING

Onboard processing ensures fast response and secure operation.



LASER PRECISION

Targets only the hornet with a precise and controlled laser.



IP65 HOUSING

Durable, weather-resistant enclosure for outdoor use.



CONNECTIVITY

Wi-Fi and Bluetooth for remote monitoring and control.



REAL-TIME DASHBOARD

Live insights and alerts through an intuitive user dashboard.



AUTOMATIC UPDATES

Cloud updates keep the system always up to date and future-ready.



ALL-WEATHER OPERATION

Built to perform reliably in all conditions, year-round.



MODULAR DESIGN

Scalable architecture for current and future innovations.



EASY INSTALLATION

Designed for quick and simple installation on any beehive.



SMART TECHNOLOGY. HEALTHIER COLONIES. A SUSTAINABLE FUTURE.



LOOKING AHEAD

BUILDING THE FUTURE OF BEEKEEPING

Bkeeprz is more than a product.
It is a scalable technology platform that supports
beekeepers, research institutes and organisations
in protecting pollinators.

By combining intelligent monitoring with valuable data
insights, we help strengthen bee populations,
improve biodiversity and contribute to a more
sustainable planet.

**PROTECT**

Safeguarding bees
with intelligent,
selective protection.

**EMPOWER**

Providing beekeepers
with data and insights
to make better
decisions.

**PRESERVE**

Supporting biodiversity
and ecosystems for
future generations.

**SUSTAIN**

Building a sustainable
future for agriculture
and our planet.

A VISION FOR TOMORROW

Our ambition is to become the global standard
in smart protection for beehives.

Through continuous innovation and collaboration,
we aim to make a lasting impact on bees,
biodiversity and the future of food.



“ We don't fight nature.
We protect it. ”

TOGETHER WE CREATE IMPACT

**BEEKEEPERS**

Better protection for
healthier colonies.

**RESEARCHERS**

Reliable data to advance
science and innovation.

**PARTNERS**

Collaborating on smart
solutions that make
a difference.

**THE PLANET**

Stronger biodiversity
for a more sustainable
world.



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Learn more
about Bkeeprz

