



GOKDA



National High-tech Enterprise



GOKDA BRAND MANAGEMENT CENTER GOKDA BRAND OPERATION CENTER GOKDA R&D CENTER

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————— GOKDA R&D CENTER ————





Company profile

Focus on overall outdoor mosquito control

The company was founded in 2009, and GOKDA is a research and development enterprise dedicated to outdoor ecological mosquito and insect repellent products for the global market. Always focused on household mosquito control technology - products - solutions - services.

Received national honors and technology patents

In 2016, 2019, and 2022, it has been awarded the title of "National High tech Enterprise" for three consecutive years. It is a member unit of Shunde Product Quality Promotion Association, a trustworthy brand enterprise, and one of the top ten brands in the outdoor mosquito killer lamp industry. It has obtained more than 40 national patents, multiple core technology invention patents, and more.

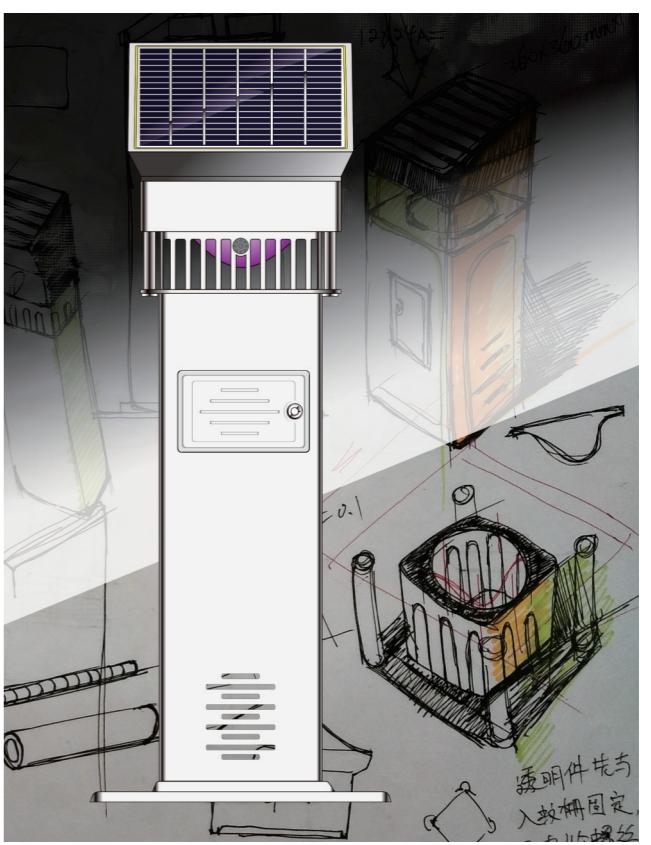
Master the core ecological mosquito control technology

The company researches and understands the living habits of mosquitoes, analyzes human secretions and their comprehensive forms, and uses innovative biomimetic technology to prevent mosquitoes. With the concept of scientific, environmental protection and safety, it develops more effective ecological mosquito control products.

Powerful expert doctoral research and development team

GOKDA collaborates with Sun Yat sen Medical College of Sun Yat sen University and Guangdong Vector Biological Control Engineering Technology Research Center for scientific research. Bringing together a research and development team of over 30 domestic and international experts, including product designers, chemical specialists, entomologists, IT engineers, and more!



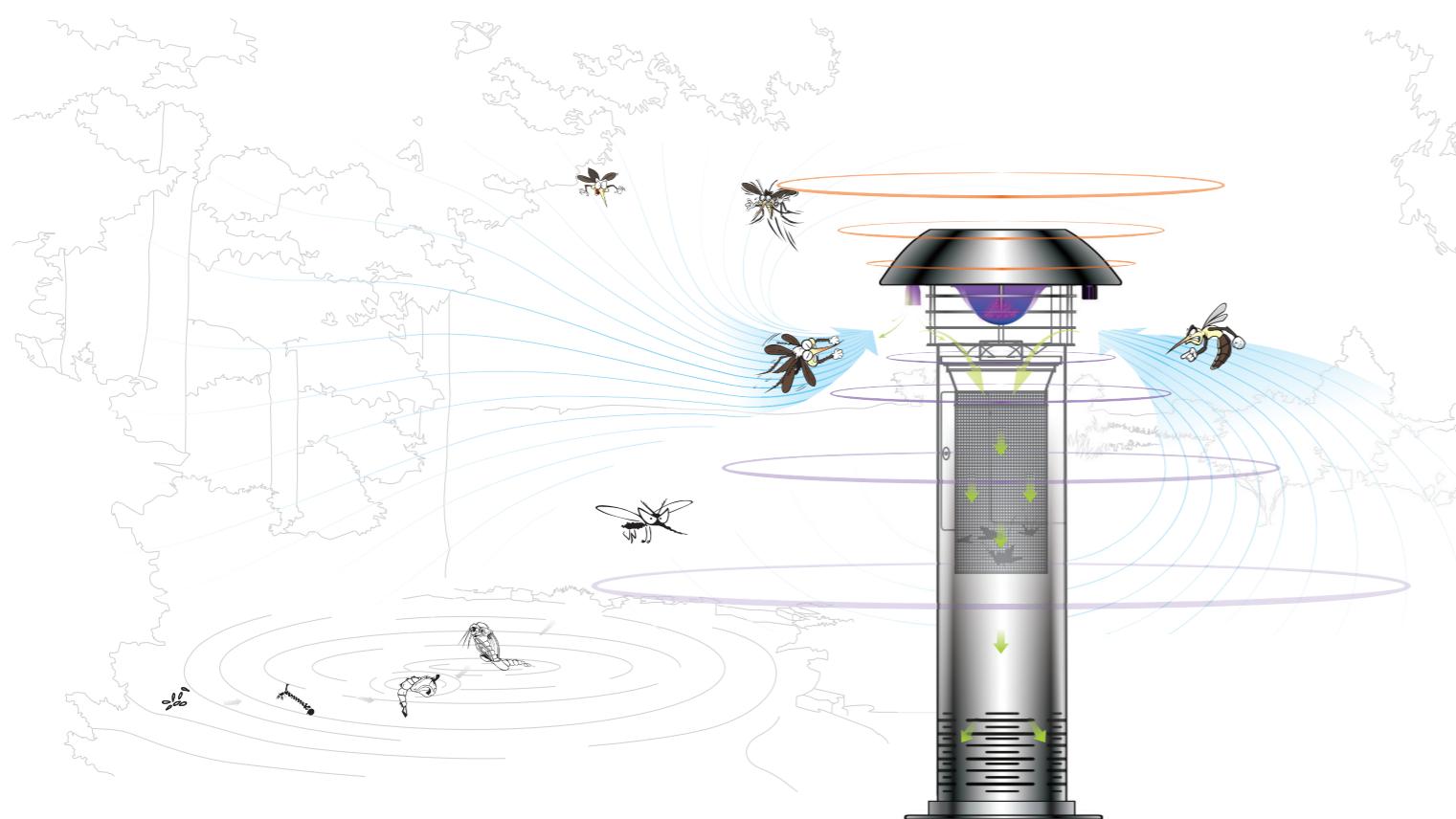


PREFACE

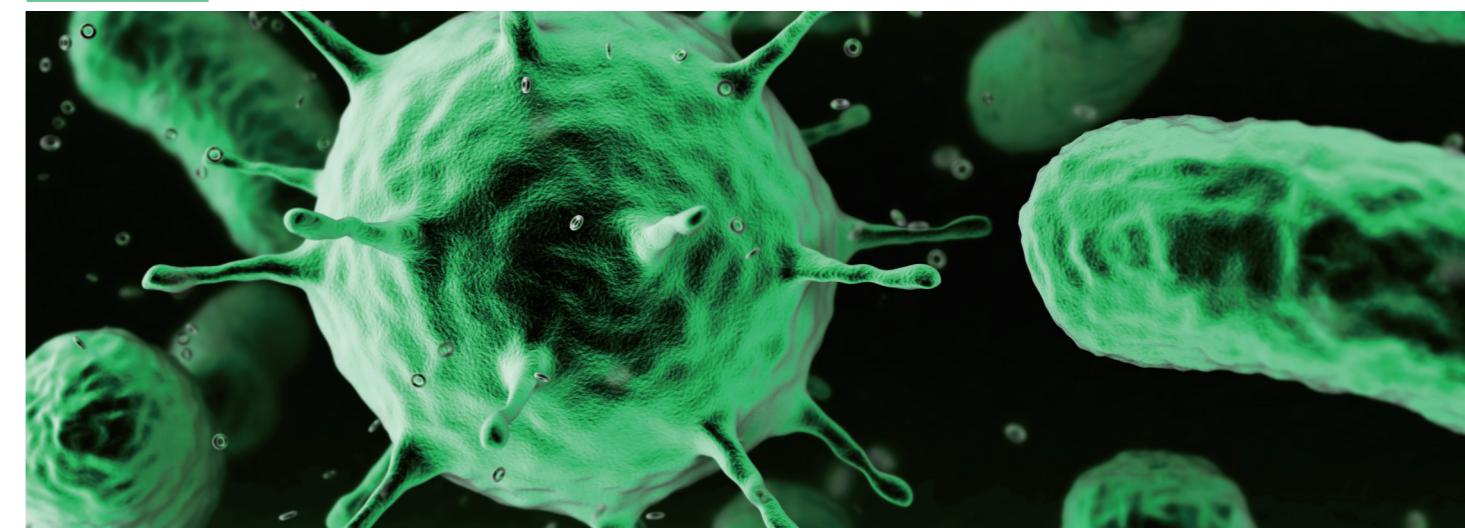
Good environmental sanitation infrastructure construction is an essential material foundation for the survival and development of a city. In addition to traditional environmental management measures, new mosquito control technologies are combined to enhance the effectiveness of mosquito control.

The abundant greenery and rivers in public places such as parks and communities provide more breeding and shelter environments for mosquitoes, leading to a significant increase in the number of mosquitoes. Mosquito bites continue to harass and spread diseases. Therefore, the ecological mosquito control system was born. Reasonably deploy and install ecological mosquito control systems in these areas of a city. It can effectively eliminate and reduce mosquitoes here, reduce mosquito density, protect the environment from chemical pollution, and improve the living standards of modern residents.

GOKDA actively advocates the combination of outdoor and indoor mosquito control, and advocates the concept of establishing the first and second lines of defense for mosquito control, in order to effectively control indoor and outdoor mosquitoes and create a healthy and beautiful living environment.



ABOUT MOSQUITO



Mosquitoes belong to the family *Mosquitidae* in the order *Diptera*, with approximately 3000 species worldwide. It is a slender flying insect with a piercing and sucking mouthpiece. Usually, females feed on blood, while males consume plant sap. Vampire sucking female mosquitoes are intermediate hosts for other pathogens such as dengue fever, malaria, yellow fever, filariasis, and Japanese encephalitis. Mosquitoes are distributed on all continents except Antarctica. Among them, the most famous genera are *Anopheles*, *Aedes*, and *Culex*.

● Breeding habits

Mosquitoes and insects all breed in water. Depending on the species, mosquito eggs may be laid on the water surface, by the water's edge, or in three different locations. On the water surface, mosquitoes such as *Anopheles* mosquitoes and house mosquitoes, and on the water's edge, mosquitoes such as *Aedes* mosquitoes. Such as small rivers, rainwater puddles, ponds, ponds, rice paddies, and mountain streams;

● Vampire habits

Male mosquitoes only suck grass juice and live with nectar, without sucking blood. Female mosquitoes must suck blood (human or animal blood) from their eggs to develop and mature after mating, so only female mosquitoes can transmit diseases. Female mosquitoes can lay one egg after sucking blood, and can lay six to eight eggs in their lifetime, with 200-300 eggs each time. Therefore, eliminating one mosquito in the early stages is equivalent to eliminating hundreds or even thousands of eggs.

● Habitat habits

After the emergence of mosquitoes and after sucking blood, they both need to find a place to live. Mosquitoes generally prefer to live in hidden, dark, and poorly ventilated areas, such as in toilets, under beds, behind cabinets, behind doors, wall crevices, and basements. Outside, they are often found in water sources, trees and grass, rockeries, bridge holes, stone crevices, and other places.



Anopheles

The characteristics of adult mosquitoes are that their wings are mostly spotted, their bodies are mostly gray, and when they stay, they maintain a certain angle with the resting surface. They mostly move at night;



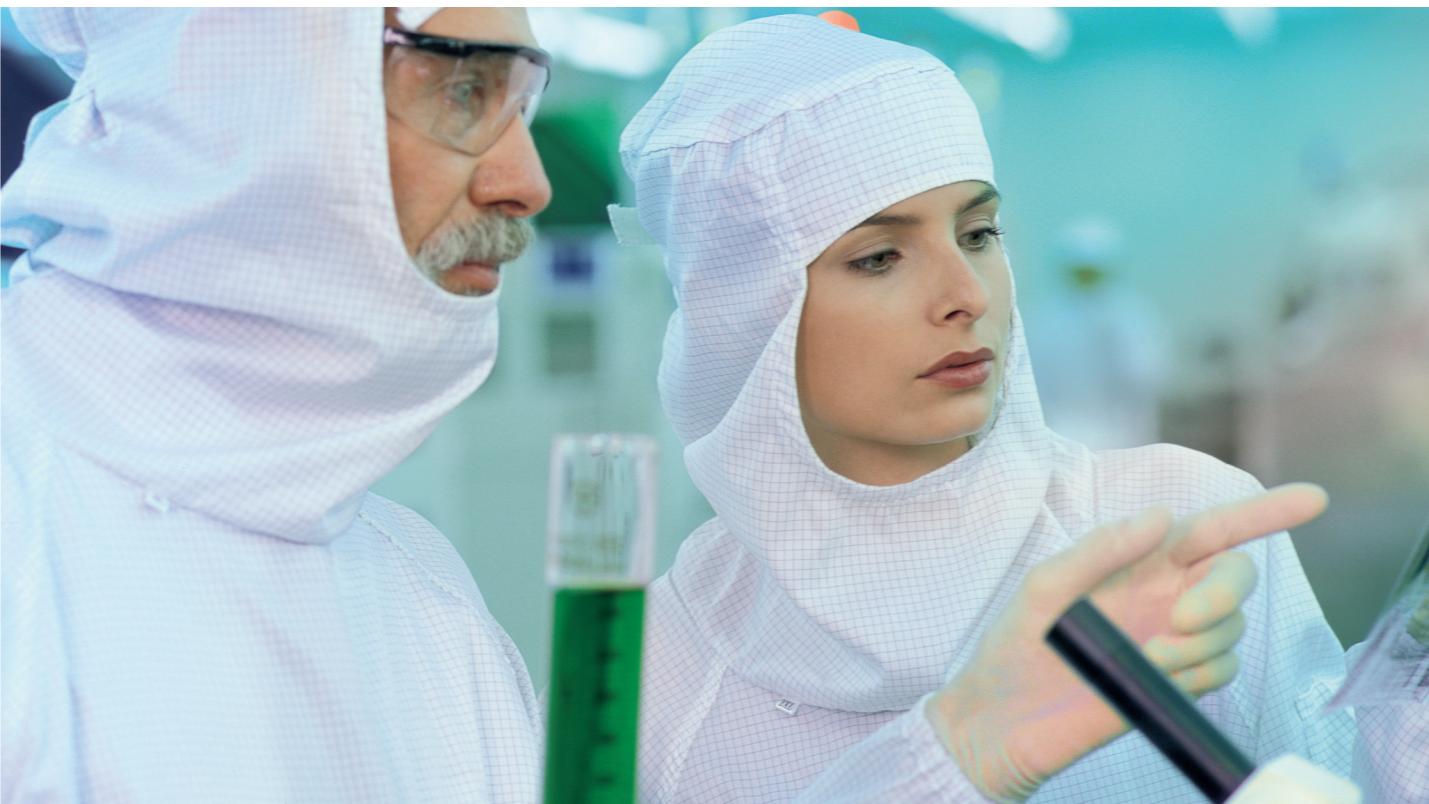
Culex

The characteristic of adult *Culex* mosquitoes is that their wings are mostly flawless and their body color is brownish yellow. When they stay, their body often maintains a balanced and parallel state with the resting surface, and their activities are mostly at night;



Aedes aegypti

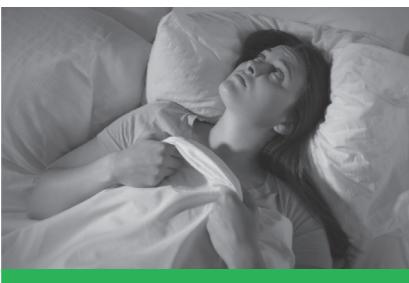
The characteristics of adult *Aedes* mosquitoes are that they have no spots on their wings, and their bodies are mostly black with white stripes. They prefer to move during the day and in cool places, and their activities are mostly at night;



A small mosquito can cause great harm



Pain, redness, swelling, and itching



Affects sleep



Allergic herpes and blisters



Severe infectious diseases such as dysentery and yellow fever



Carrying pathogens, causing skin diseases



Causing colds and fever

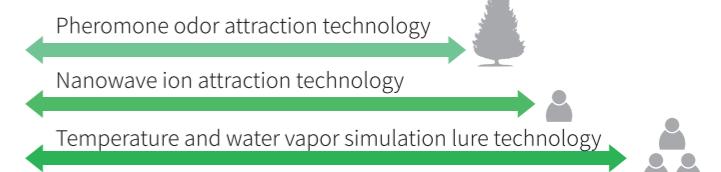


Multiple mosquito attractant systems

Mosquito Attractant Technique

New anti mosquito technology, using specific light waves, patented mosquito attractants emitting odors, heat, water vapor, etc. to attract mosquitoes to approach. The high-speed rotating vortex fan sucks mosquitoes into the mosquito storage box to dry and dehydrate them, resulting in death. The entire process is safe and pollution-free, with no toxic side effects. Thus achieving the goal of green pest control and environmentally friendly mosquito control.

Multiple mosquito attractant systems



Pheromone odor attraction technology

GOKDA patented formula: Supported by rigorous experimental testing data, continuously adjusting the ratio. With tens of thousands of experiments, essence is extracted from a variety of natural plants. It is non-toxic and harmless, and imitates human body odor to emit elements. Paired with the device, it can significantly enhance the mosquito attraction effect.



Mosquito attractant light wave

The 360-400nm light waves emitted by customized LED UVA lure chips are used to lure mosquitoes closer. The emitted light waves can not only lure mosquitoes, but also other different types of flying insects.



Temperature simulation lure

After exercising, a person's body temperature rises and is more likely to attract mosquitoes. Using this principle, a Fever system is built into the machine to simulate the heat source of body temperature, thereby achieving better trapping effects.

Product features



Multiple mosquito attractant systems



APP remote control



Intelligent linkage



Physical mosquito control



Safe waterproofing



Saving

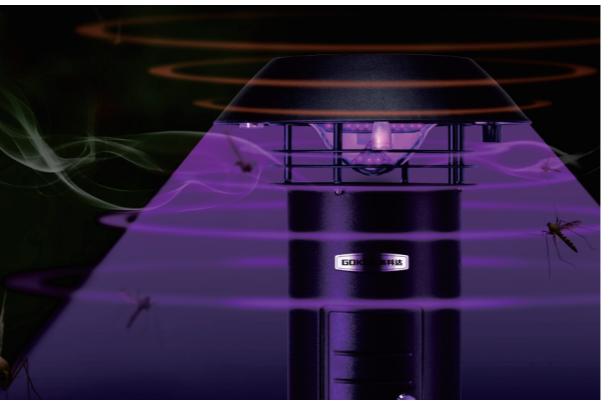


Product advantages

- Biomimetic design, physical mosquito control, environmentally friendly and safe mosquito catching and killing.
- Multiple mosquito attractant systems: light waves, odor, water vapor, temperature simulation attractants, etc.
- Invention of patented mosquito attractants to enhance attraction: Anopheles mosquitoes, Culex mosquitoes, Aedes mosquitoes.
- Lighting mode, automatic mosquito control mode, manual mosquito control mode
- The waterproof design of the entire machine allows for regional/global control of the setting status.
- Multiple devices can be synchronized and controlled separately



Ultra-quiet fan



Double roller DC waterproof fan, with long service life and stable operation.



Double roller fan

Solar powered ecological mosquito control system

H-X6-TYN

Intelligent remote control of mobile app, multifunctional and large-scale mosquito control.

40Ah lithium solar charging

Eliminate wiring and installation troubles

A 340 * 340mm large-area solar charging board, paired with a 40Ah ternary lithium battery, is environmentally friendly and energy-saving, and can last for more than 80 hours when fully charged.

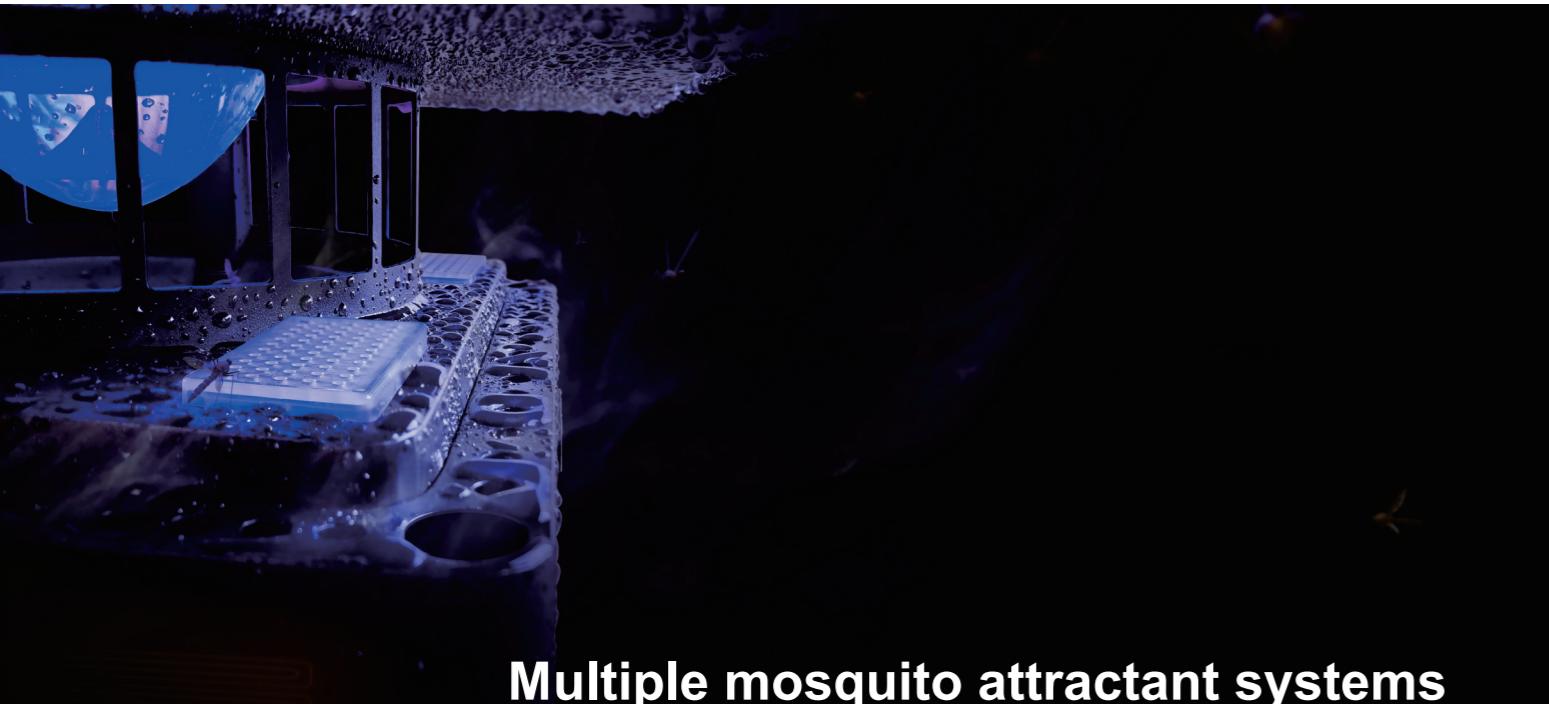


APP intelligent remote control

Equipped with Alibaba Cloud communication module, it can control/view the operation status of the machine at any time.

- Lighting mode
- Automatic Mosquito Control Mode
- Manual mosquito control mode
- Cloud based multi period timed setting mode
- Machine operation status can be viewed at any time
- Divisible Regional/Global Control Equipment Status
- Multiple devices can be synchronized/controlled separately

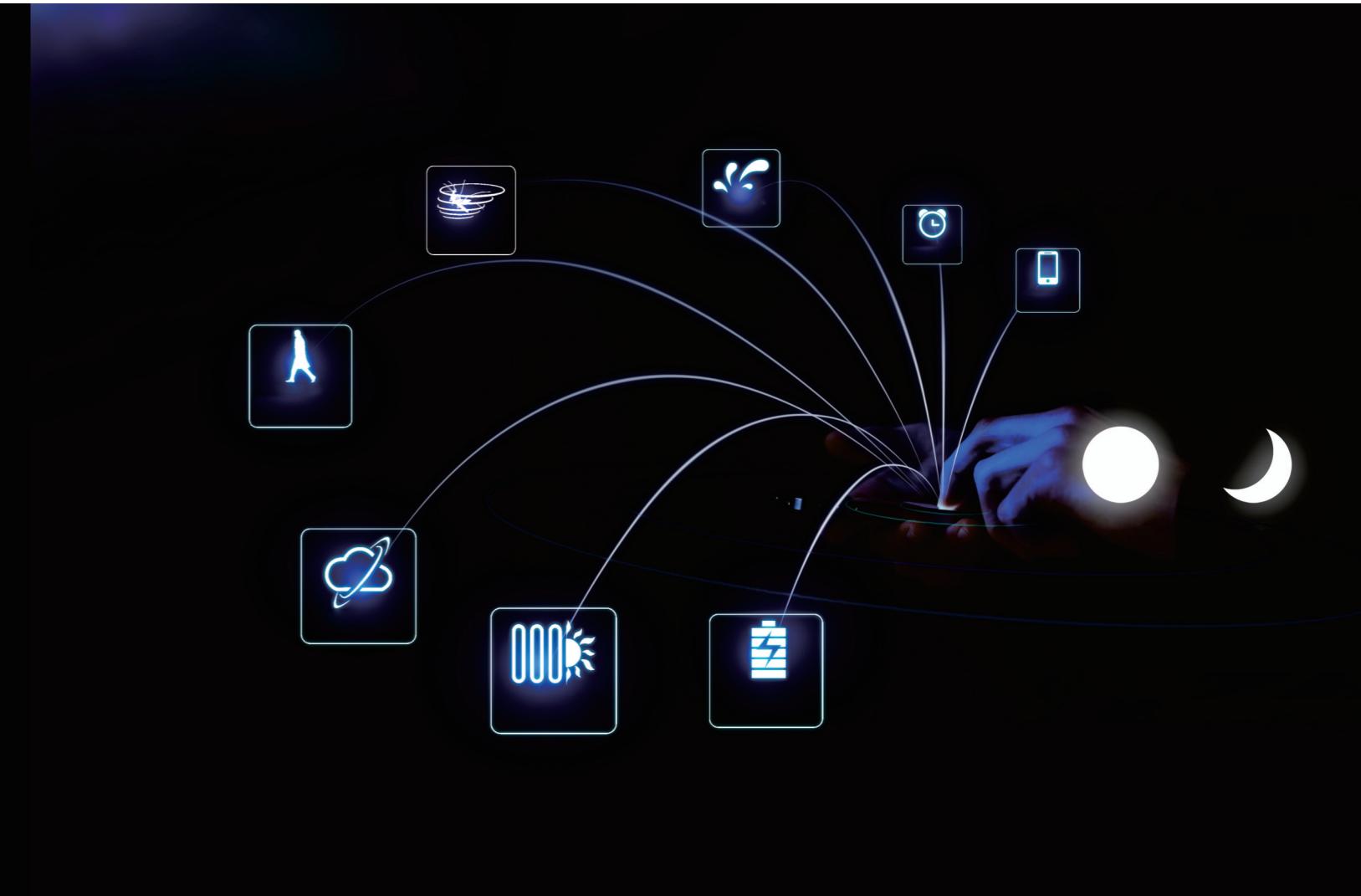




Multiple mosquito attractant systems

Developed and produced by GOKDA

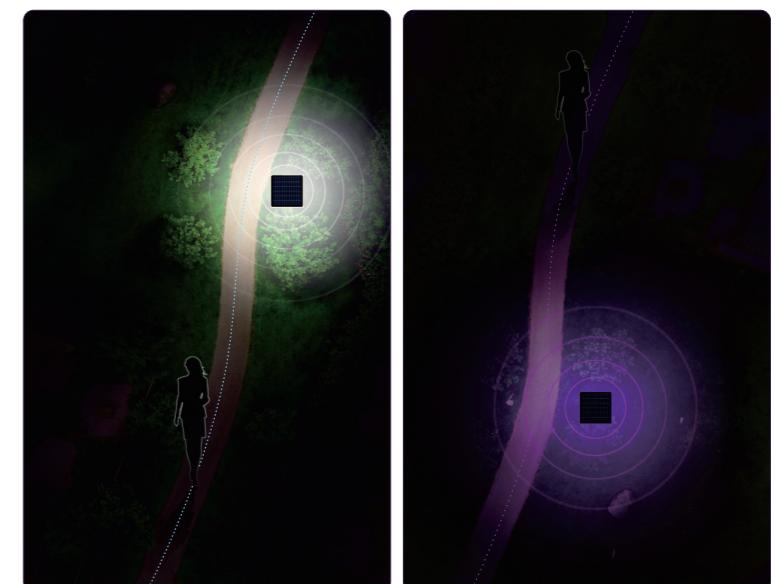
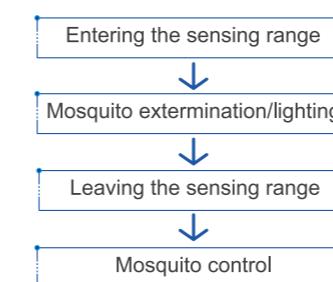
- Customized mosquito lure light wave
- Patent mosquito attractant odor attraction
- Biomimetic attraction of water vapor/heat



Mobile app allows for free switching of the working status of each machine in different environments

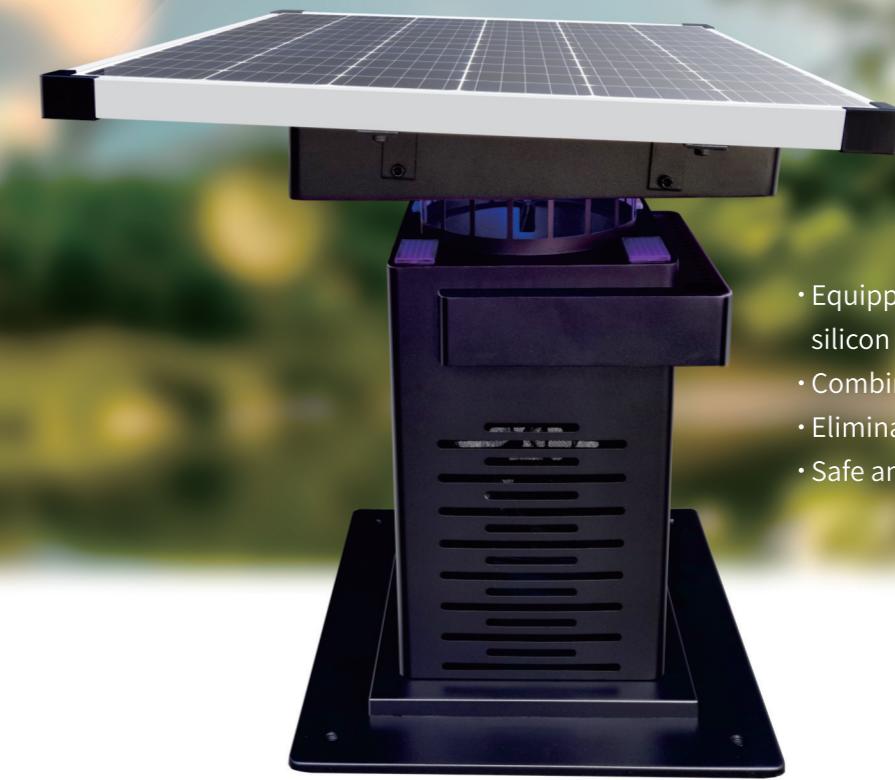
Equipped with human infrared sensors

- Sensing range: wide angle 120 °, sensing distance 3-6 meters.
- Induction lighting: Enter the induction range and automatically activate the lighting function.
- Leaving or stationary: The lighting function automatically turns off within a few seconds.



60W OUTPUT

Fast conversion to electrical energy



- Equipped with 690 * 520mm monocrystalline silicon solar panels.
- Combined with a 40Ah ternary lithium battery.
- Eliminate wiring installation troubles.
- Safe and secure use.



Solar charging



40Ah lithium battery



APP remote control



Intelligent linkage



Inhalation mosquito control



Multi period timed control



Automatic\manual APP



IPX6 rainproof

Solar Outdoor Mosquito Lamp H-BS700-TYN

Types of	Wind suction type	function	Mosquito control
Product specifications	690 X 440 X 610mm	colour	black
Power source	Optoelectronic integration	voltage	110-256V / 12V~
power	8-12W	Capture Range	300m ²
material quality	Stainless steel	power switch	Light control/manual/APP
Inducing methods	Light wave/temperature/odor attraction		

Solar panel parameters

specifications	690X520X25mm	working voltage	18V
output power	60W	Chemical Type	single-crystal silicon

Battery parameters

capacity	40Ah	Chemical Type	Ternary lithium battery
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Solar powered ecological mosquito control system

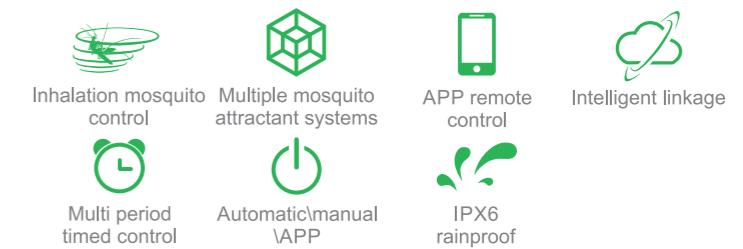
H-BS700-TYN

Intelligent remote control of mobile app, multifunctional and large-scale mosquito control.

Solar powered ecological mosquito control system

Adopting multiple mosquito lure techniques

H-BS700

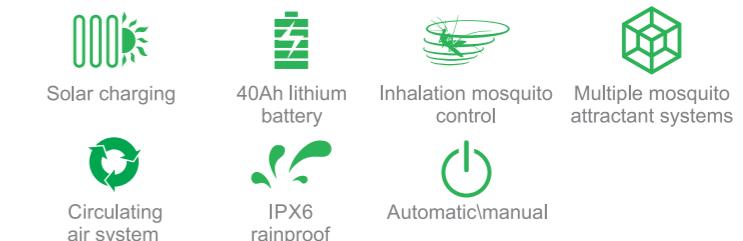


Solar Outdoor Mosquito Lamp H-BS700

model	H-BS700		
Types of	Wind suction mosquito control		
function	Mosquito control		
Place of use	Universal for outdoor/indoor use		
material	Stainless steel		
Product specifications	375 X 440 X 600mm		
voltage	AC110-256V		
power	8.5-12W		
frequency	50Hz		
Capture Range	150-300m ²		
Inducing methods	Light wave/temperature/odor attraction		
power switch	Light control/manual/APP		
colour	black		

Packaging

net weight	4.75kg	gross weight	6.56kg
Package size	480 X 450X 660mm	Packaging quantity	Separately packaged



Solar Outdoor Mosquito Lamp H-X4-TYN

Types of	Wind suction mosquito control	function	Mosquito control
Product specifications	440 X 440 X 735mm	voltage	12V~
power	8W	Capture Range	150m ²
colour	black	power switch	Light control/manual
material quality	stainless steel		
Inducing methods	Light wave/temperature/odor attraction		

Solar panel parameters

specifications	340X340X17mm	working voltage	18V
output power	17W	Chemical Type	single-crystal silicon

Battery parameters

capacity	12Ah	Chemical Type	Ternary lithium battery
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Optional colors

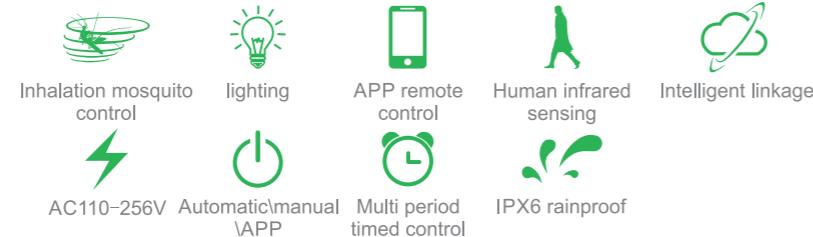


Solar Outdoor Mosquito Lamp H-X5 APP Intelligent version

model	H-X5 APP Intelligent version		
Types of function	Wind suction mosquito control		
Place of use	Mosquito control/lighting		
material	Universal for outdoor/indoor use		
Product specifications	Stainless steel		
voltage	300x250x740mm		
power	AC110-256V		
frequency	8.5-12W		
Capture Range	50Hz		
Inducing methods	150m ²		
colors	Light wave/temperature/odor attraction		
	black/bronze		

Packaging

net weight	4.75kg	gross weight	6.56kg
Package size	345 x 345 x 815mm	Packaging quantity	Separately packaged



Solar Outdoor Mosquito Lamp H-X3 APP Intelligent version

model	H-X3 APP Intelligent version		
Types of function	Wind suction mosquito control		
Place of use	Mosquito control/lighting		
material	Universal for outdoor/indoor use		
Product specifications	Stainless steel		
voltage	260x250x1030mm		
power	AC110-256V		
frequency	8.5-12W		
Capture Range	50Hz		
Inducing methods	150m ²		
colors	Light wave/temperature/odor attraction		
	black/bronze		

Packaging

net weight	4.58kg	gross weight	5.6kg
Inner packaging size	310 x 310 x 560mm	Outer packaging size	645*328*578mm
Packaging quantity	2 units per box		



Solar powered ecological mosquito control system H-X5-TYN(split type)

Types of function	Wind suction mosquito control	power	Mosquito control/lighting
voltage	12V~	colors	8W
Capture Range	150m ²	material	black
Inducing methods	Light wave/temperature/odor attraction		Stainless steel

Solar panel parameters

specifications	340X340X17mm	working voltage	18V
output power	17W	Chemical Type	single-crystal silicon

Battery parameters

specifications	150X98X95mm	working voltage	12V
capacity	12Ah(customizable)	Chemical Type	Ternary lithium battery

Complete packaging specifications

Body packaging size	345 x 345 x 815mm	weight	6.56kg
Box packaging size	360 X 360 X 320mm	weight	12.3KG
Column packaging size	201 X 210 X 1000mm	weight	2.81KG

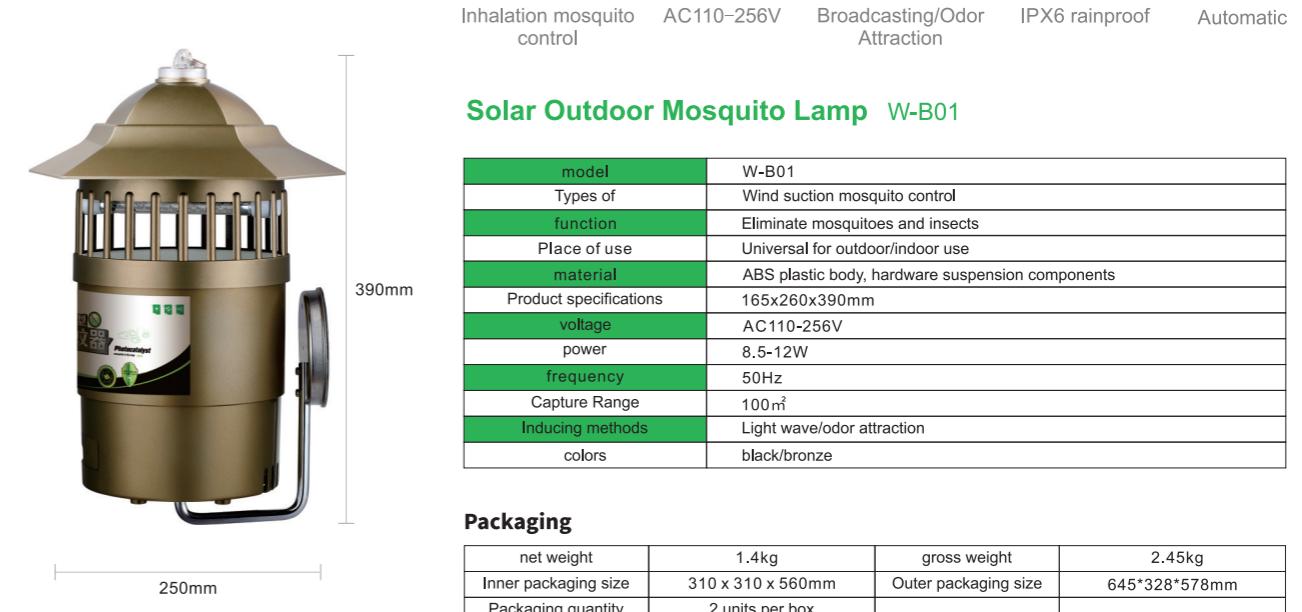
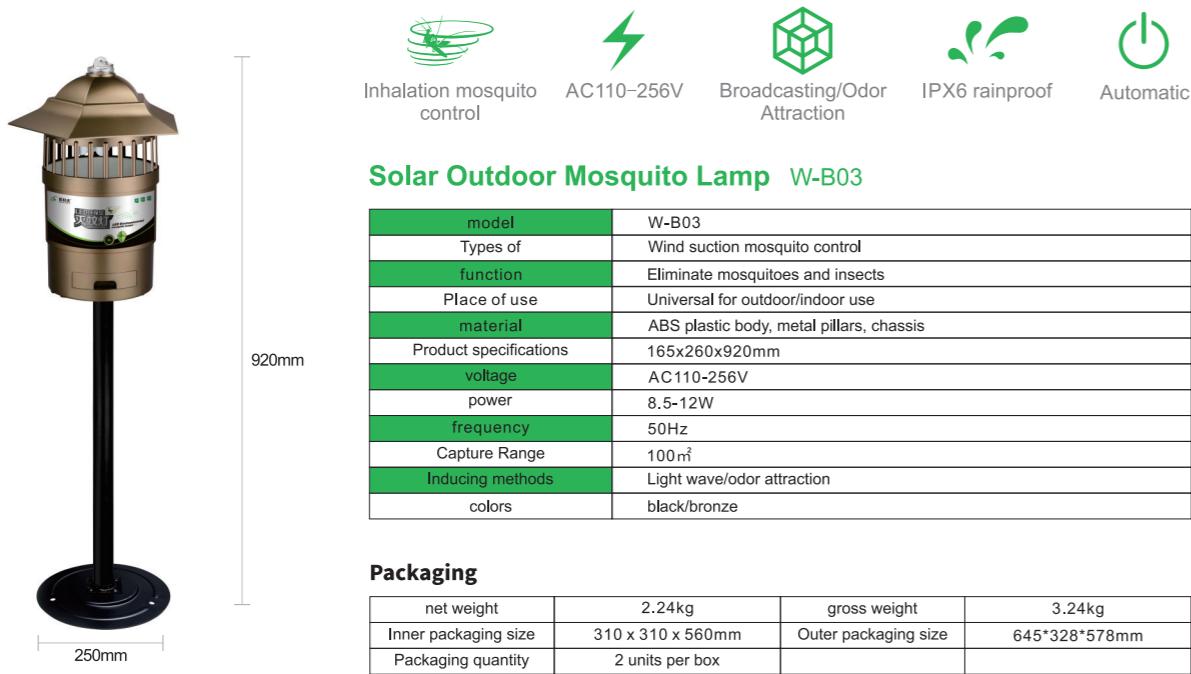
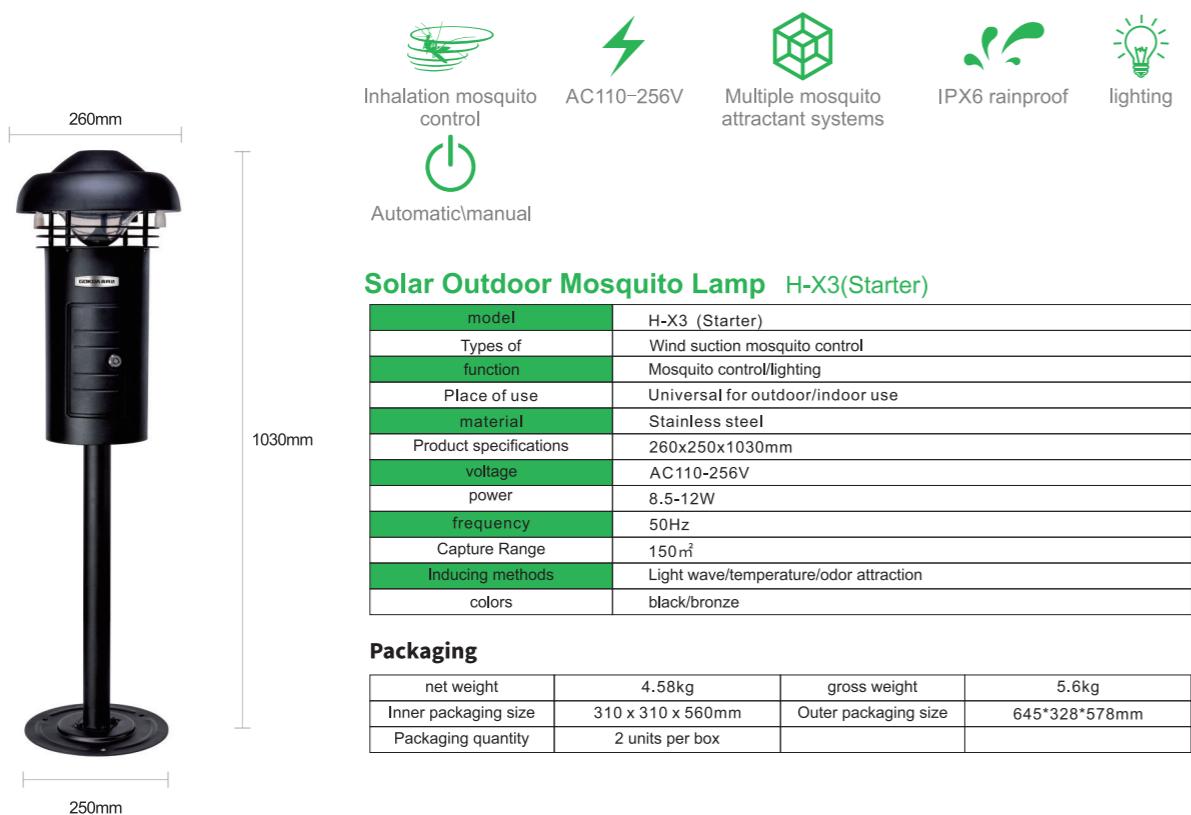


Solar Outdoor Mosquito Lamp H-X5(Starter)

model	H-X5 (Starter)		
Types of function	Wind suction mosquito control		
Place of use	Mosquito control/lighting		
material	Universal for outdoor/indoor use		
Product specifications	Stainless steel		
voltage	300x250x740mm		
power	AC110-256V		
frequency	8.5-12W		
Capture Range	50Hz		
Inducing methods	150m ²		
colors	Light wave/temperature/odor attraction		
	black/bronze		

Packaging

net weight	4.75kg	gross weight	6.56kg
Package size	345 x 345 x 815mm	Packaging quantity	Separately packaged



Mosquito-trap agent



[scope of application]

The product has strong attraction to mosquitoes such as *Aedes*, *Culex pipiens pallens*, *Culex fatigus*, *Culex tritaenoides*, *Anopheles sinensis*, and *Anopheles mirabilis*. When used in combination with mosquito control equipment, it can significantly enhance the killing effect of the equipment.

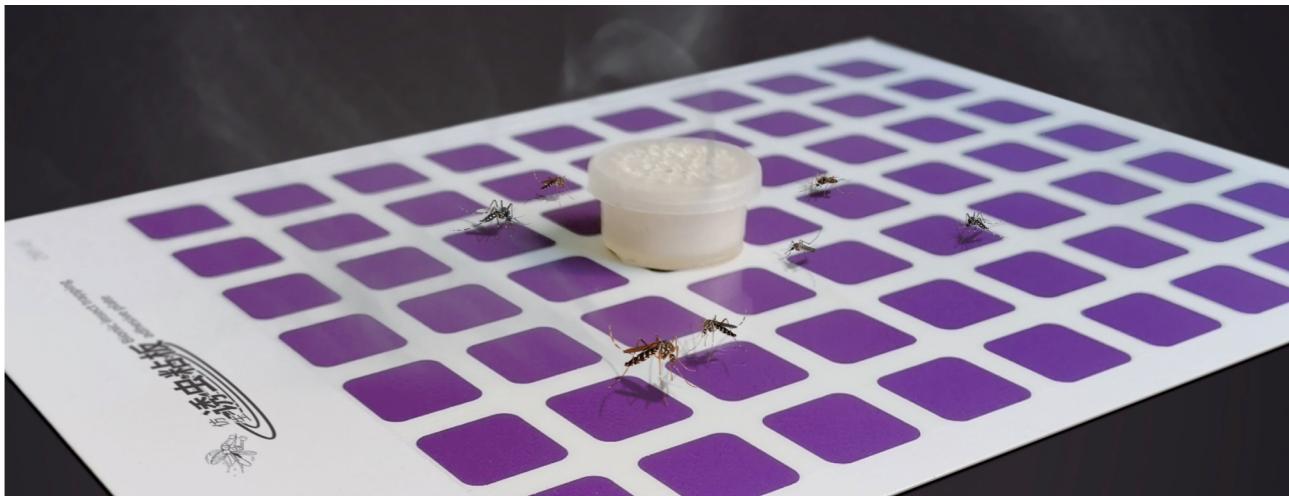
[Usage]

After opening the packaging bag, use a toothpick to puncture the honeycomb hole on the plastic cover, and then place it in the designated position of the mosquito killing equipment.

Ingredients: Plant extracts Effective substance ≥ 93.6 (%)
Non-toxic: non-toxic and harmless

Storage method: sealed, at room temperature, moisture-proof, and away from light.

Midge attractant

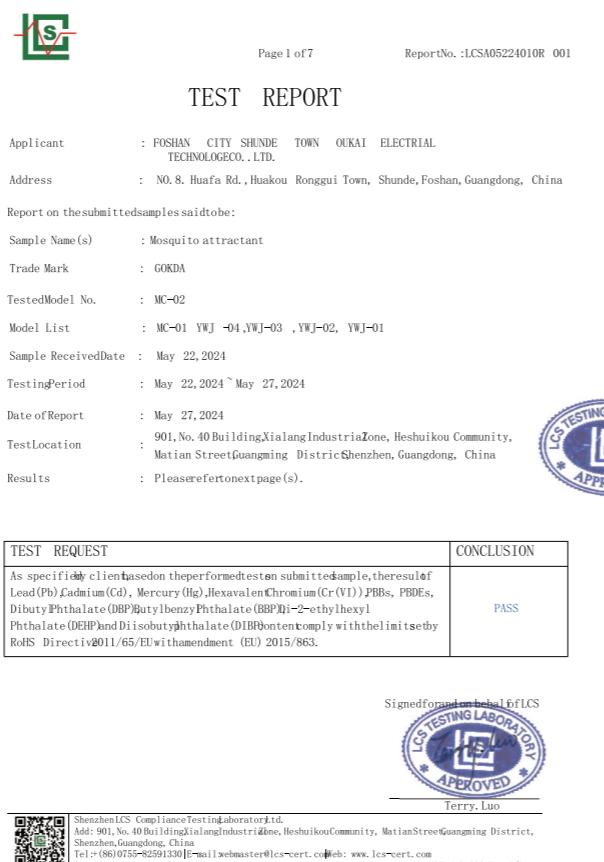


Patent formula with added mosquito and fly attractant ingredients on the surface adhesive.

In addition, it can be paired with attractants to double the effectiveness, expand the capture range, and ensure safe use.

Sticker size: 148*210mm

GOKDA 仿诱虫粘板 Bionic insect trapping adhesive plate ZHY-A5



Mosquito trap



Double the odor and moisture to enhance the attraction effect of mosquitoes and insects

Based on the breeding habits of mosquitoes, simulate their preferred breeding environment and lure them into traps where they are firmly trapped by sticky insect boards, thus achieving trapping.

usage method:

- Tear off the white film on the surface of the sticky insect board and fold it into a 90 degree clip onto the inner wall of the bucket.
- Quantity: 2 pieces.
- Remove the honeycomb plastic cover of mosquito attractant, tear off the opening film, and then cover it with the honeycomb plastic cover.
- Placed in the middle of the mosquito trap.
- Add water and a small amount of salt (not higher than the sticky paper slot) to the mosquito trap.

Mosquito trap parameter



Product specifications	15*11*21cm
Barrel material	plastics
safety	Safe and non-toxic
Product composition	2 insect attractant boards, 1 mosquito attractant, and 1 hook screw
usage	Placing or hanging
Capture types	Aedes albopictus, Anopheles mosquitoes, Culex mosquitoes, Fungus mosquitoes (small black flies), Midge insects (small bites), Fruit flies and other insects

Packaging

Outer packaging size	40*30*17CM
Packing quantity	7 sets/piece

Photoelectric mosquito repellent system

One machine has multiple functions

01	Mosquito repellent
02	air purification
03	humidification
04	Night Light

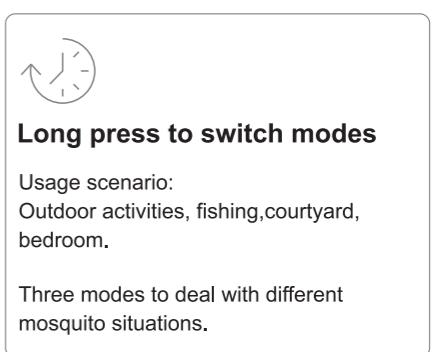


One click switching 3 modes and 8 working states.

1 | Continuous spray
2 | Intermittent spray

3 | Mosquito repellent strong light
4 | Mosquito repellent bright light + spray
5 | Mosquito repellent bright light + intermittent spray

6 | Mosquito repellent glow
7 | Mosquito repellent twilight + spray
8 | Mosquito repellent twilight + intermittent spray



Paired with GOKDA plant aromatherapy, the effect is even better!

Installation recommendations



43mm

147mm

73mm

 Mosquito repellent
 low noise
 Easy to carry
 multipurpose

Photoelectric mosquito repellent system GDQW-Q1

Machine parameters

Model	GDQW-Q1
Product size	73*43*147mm
Function	Mosquito repellent
Battery capacity	1800mAh
INPUT VOLTAGE	5V
Power	1.6W
Cup capacity	130mL
Spray amount	30-50mL/h
Expulsion range	10-20m'
Colour	orange

Packaging

Inner packaging size	73*73*150mm	Outer packaging size	385*230*319mm
Packaging quantity	30 units/box		



92mm

39mm

 Plant extract essential oil
 Easy to use
 Fresh air
 Mild odor

Plant aromatherapy ZWXX-01 parameter

model	ZWXX-01
Product size	39*32*92mm
Usage	1. Open the bottle cap and spray directly for use. 2. It can be used in aromatherapy machines, diffusers, humidifiers, and photoelectric mosquito repellent systems.
Ingredients	Lemongrass essential oil, lemongrass essential oil, mugwort essential oil, tea tree essential oil, peppermint essential oil, plant extract, deionized water, solubilizer.
net content	40mL
period of validity	3 years

Packaging

Product packaging size	39*39*93mm		
Inner packaging size	204*85*101mm	Packaging quantity	10 bottles/box
Outer packaging size	443*215*217mm	Packaging quantity	100 bottles/box

RoHS MSDS

When the insect eggs turn into young mosquitoes and fly out of the water, their flight distance can reach 80-100 meters. When flying 80-100 meters, they will find a foothold to stay (on the green belt) and then make a second flight. If we install outdoor mosquito control equipment within 80-100 meters of mosquito breeding sources, then we effectively provide a layer of protective measures to the surrounding environment to prevent a large number of mosquitoes from flying to office areas, commercial areas, schools, residential areas Harassment in leisure and entertainment areas and other places.

Select control points that require the installation of mosquito control equipment based on the physiological cycle and habits of mosquitoes

- Mosquito breeding sources within 80-100 meters.
- Installed opposite the entrance and exit.
- Try to install it on the green belt as much as possible.
- Install control along the water area. Water bodies and humid environments are breeding grounds for mosquitoes and insects, and it is necessary to densely control the area to reduce mosquito infestation from the source.
- Avoid installing in areas illuminated by strong lights at night.

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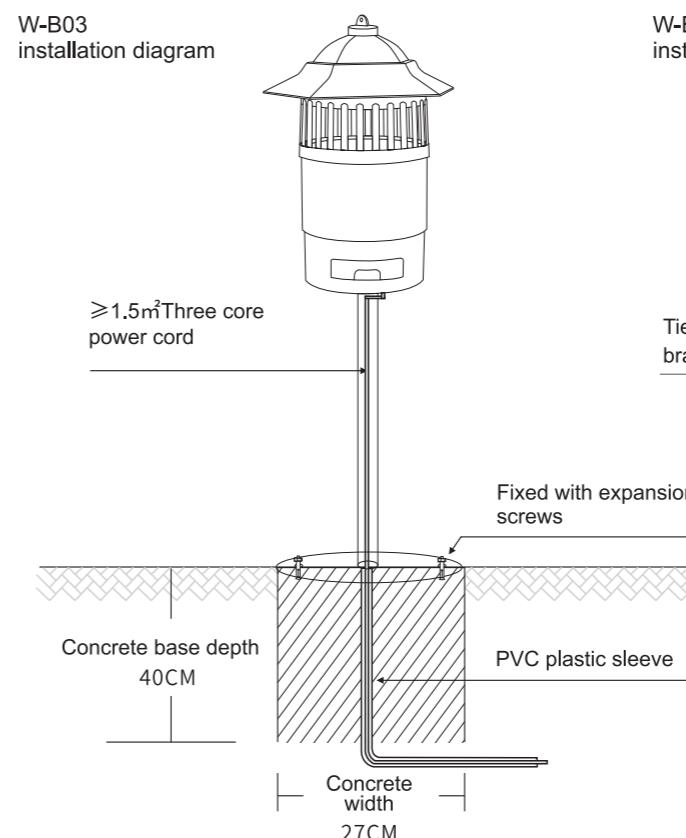
installation diagram



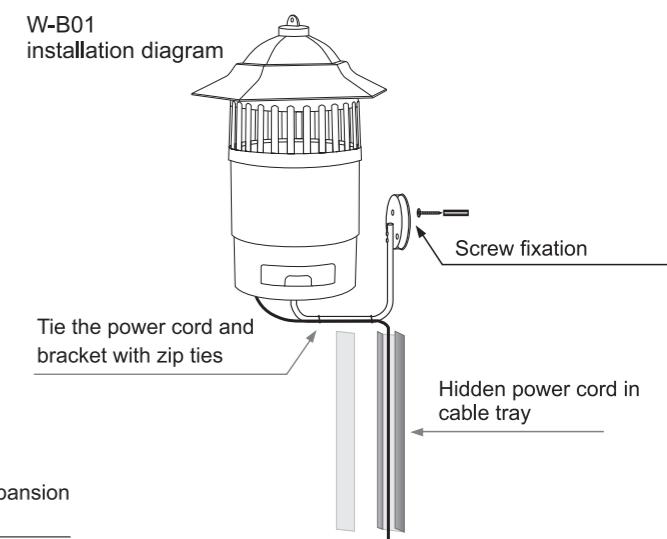
Installation precautions for 110-256V power supply

- The product installation should be connected to a ground wire, and a three core plastic power cord of $\geq 1.5 \text{ m}^2$ must be used. The PVC protective tube wrapped outside the power cord cannot be exposed and needs to be deeply buried below about 20 centimeters, the interface should be waterproof, and the power supply must be equipped with a leakage protection switch.
- If the product is installed on a muddy ground, a cement base must be built (please refer to the installation diagram for details). The product should be installed perpendicular to the ground and not tilted. The base should be fixed with nuts or expansion screws.

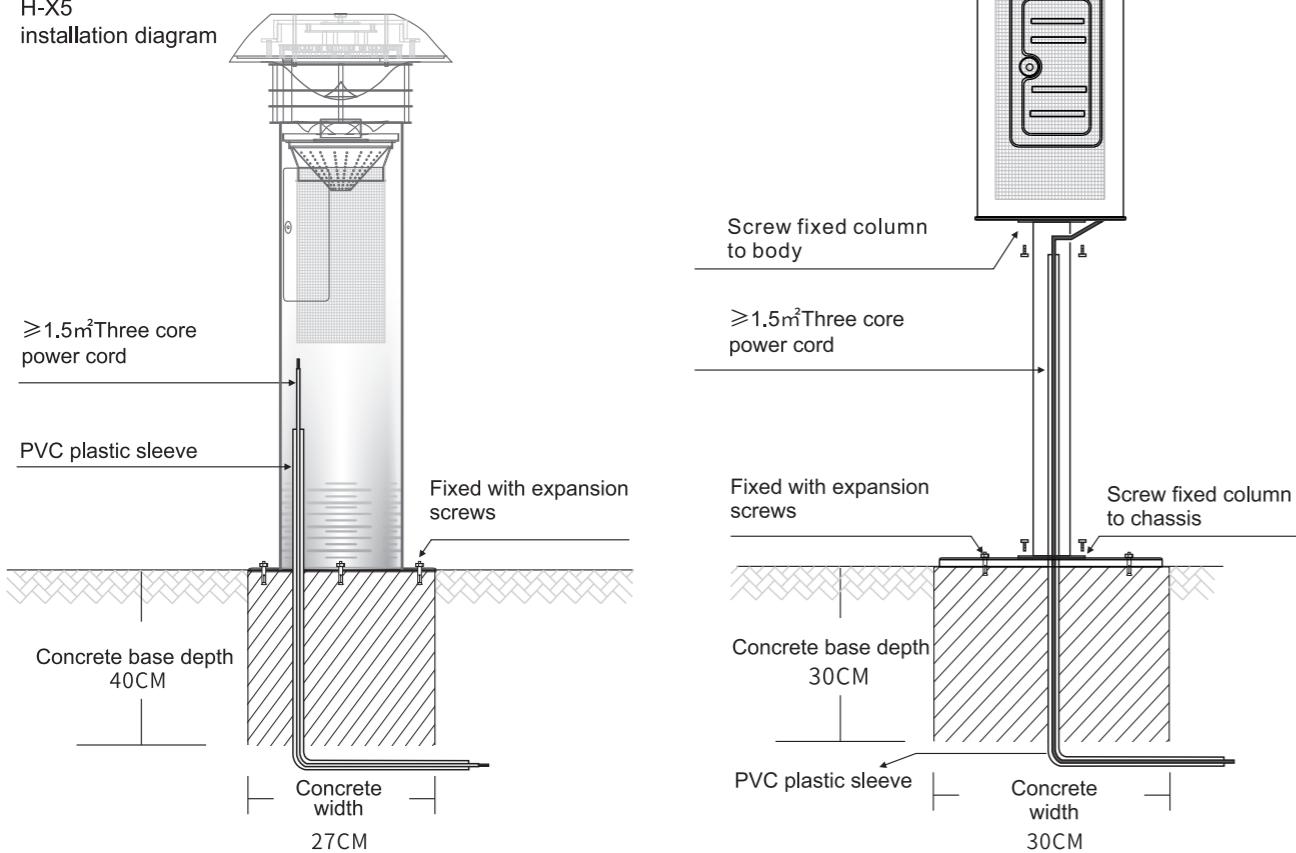
W-B03
installation diagram



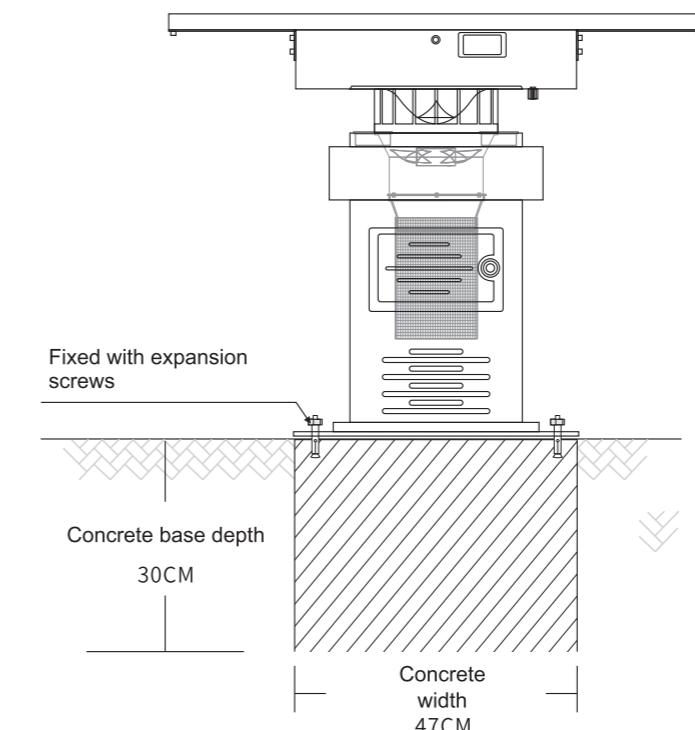
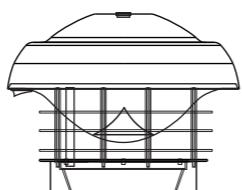
W-B01
installation diagram



H-X5
installation diagram



H-X3
installation diagram



Installation precautions for solar mosquito control system

- The solar energy component must be installed in a well lit and unobstructed area.
- The solar cell module faces due south, ensuring that the solar cell module faces the light all the way up. There are no obstructions or shadows in the sky.
- When it is not possible to meet the requirement of no obstruction throughout the day, it is necessary to ensure no obstruction between 9:30 and 15:30.

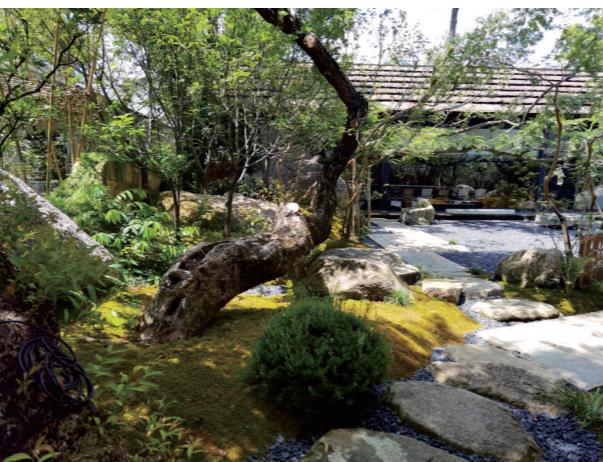
• Pay attention not to reverse connect the positive and negative terminals of the solar panel, battery, and mosquito control system power supply (see the product power supply wiring diagram on the right for details). After wiring, check if there are any problems with the circuit and if the system can work properly.

• If the product is installed on a soil ground, a cement base must be built to ensure a solid and reliable foundation. The product should be installed perpendicular to the ground and not tilted. The base should be fixed with nuts or expansion screws (refer to the installation diagram).

Installation process

on-the-spot investigation

Check the internal and external environment of the installation site. Green belts, water areas, and humid environments are all breeding grounds for mosquitoes and insects



Drawing control installation position

Combined with landscape greening effect map layout and control



Verify rationality

Communicate the required model and quantity for installation



Installation and debugging

Replace mosquito attractants, clean mosquito carcasses in net bags, and clean equipment dust.



