



BLUEWAVE

EXPERTS IN HUMAN LIVING CARE TECHNOLOGY



SAMMI GLORY CO., LTD.
The Company for Health & Beauty



has been supplying various kinds of 'public health' and 'beauty products' since our establishment in 2002. With our wide global networks and know-how from our accumulated experience, we have had business relations with long term business partners in 50 countries and are enlarging our business fields and networks more every year.



We are always trying to seek 100% customer satisfaction and excellent quality control system. Moreover, through forward-looking business process by making technical partnership with the overseas related companies, this R&D center is focusing on manufacturing the world top products.



Our Core Value

- ▶ **Customer Satisfaction** by Differentiated Products!
- ▶ **Unlimited Challenge** for Much Higher Goal!
- ▶ **Creative & Innovative Change** for Better Future!

Our Mission

Go for the future growing together with customers, partners, and employee!

Our Motto & Slogan

The Future is Now!

The Company for Health & Beauty.

Our Location and Contacts

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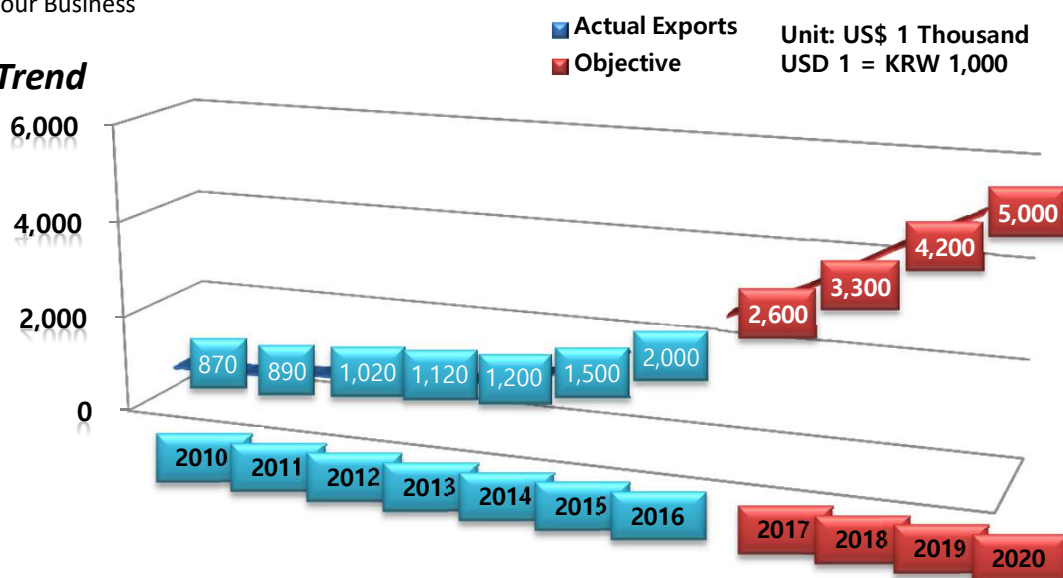
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Our Core Value

- ▶ 2002 : Established as "Sammi Trading Co."
- ▶ 2006 : Exceeded USD 0.5 million in annual exports.
- ▶ 2010 : Won Saudi Arabian government tender.
 - Products : Turbo-150U (U.L.V Cold Fogger), DMC-721FW (Duster)
- ▶ 2011 : Won Saudi Arabian government tender.
 - Products : BF-150 (Thermal Fogger)
- ▶ 2012 : Won Saudi Arabian government tender.
 - Products : Turbo-1200U (U.L.V Cold Fogger), BF-400 (Vehicle Mounted Foggers)
 - Incorporated as "Sammi Glory Co., Ltd."
 - Designated as a "Promising Export Firm" by the Small & Medium Business administration in Korea.
 - Exceed USD 1 million in annual exports Awarded "1 Million Dollar Export Tower" by the Korean International Trade Association.
- ▶ 2013 : Obtained ISO 9001:2008 international standard certification.
 - Started new business for beauty products .
 - Made a contract for the international sales agent of "Original Raw".
- ▶ 2014 : Attended "PEST WORLD 2014" in Orlando, Florida as a exhibitor.
- ▶ 2015 : Won Saudi Arabian government tender.
 - Products : TURBO-150U (U.L.V cold Fogger)
- ▶ 2017 : Re-designated as a "Promising Export Firm"
- ▶ 2019 : Continued our Business

Annual Sales Trend



International Network



PORTABLE THERMAL FOGGER P-BF-150 (BF-150)



Tank Capacity (CHEMICAL/FUEL)	Fuel	Engine	Droplet Size	Net weight	Dimensions
8 Liter/1.8L	Petrol	Pulse Jet	0~5 microns	9 kg	1,370×240×360

Product Features (P-BF-150 & P-BF-200)

1. Simple Operation & Quick Start

Air and fuel is automatically mixed with the 12V air pump. It can start when you just push only one button. The igniter with a 12V DC battery can make the machine quick and easy.

2. Durability

This is made from stainless steel (main body, chemical tank, fuel tank & etc), which prevents corrosion caused by chemicals and fuels.

3. Re-chargeable Battery

Non-liquid / 12V DC / Rechargeable Battery hardly degrades and can be used much more longer.

4. Little Heat

Designed by the double cooling method with two air-intake valves that are connected to the fuel ignition part of the machine. The machine will NOT be getting hot and you can use it more safely.

5. Good Maintenance

Very simple to assembly and disassembly. And easy to check the problems because the fuel lines are transparent.

PORTABLE THERMAL FOGGER P-BF-200 (BF-200)



Tank Capacity (CHEMICAL/FUEL)	Fuel	Engine	Droplet Size	Net weight	Dimensions
8 Liter/1.8L	Petrol	Pulse Jet	0~5 microns	10 kg	1,380×250×370

PORTABLE THERMAL FOGGER P-BF-400 (BF-400)



Tank Capacity	Fuel	Flow Rates	Droplet Size	Net weight	Dimensions
100 Liter	Petrol	85 liter/h	0~5 microns	80 kg	1,330×710×490mm

Product Features (P-BF-400)

1. This machine has a control box, so the machine can be placed in the back of an open bed truck and operated by a passenger in the vehicle.

2. Start-up is simple.

The 12V DC battery of the truck is used by connecting it to the control box. Then you simply press the start and fuel buttons at the same time, and the machine will start.

3. Durability of the Machine.

This machine is made almost entirely of stainless steel (chemical tank, fuel tank etc), which prevents corrosion due to chemicals and fuels.

4. It is not necessary to use an additional battery because you can use the battery of the vehicle.

5. Little heat generation

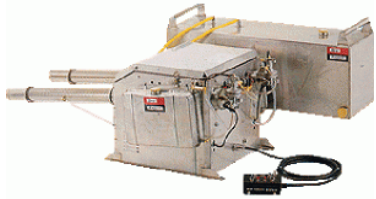
The machine has been designed so it is cooled by two air-intake valves, that are connected to the fuel ignition part of the machine.

6. Strong Igniter

The igniter used a 12V DC battery so that starting the machine is quick and easy.

7. Easily Repaired

All components are designed for easy assemble / disassemble, the fuel line is made of a transparent material, and the spark plug is easily seen, so it is easy to spot problems when it happens.

				
			PBF-400	Main Body
Model	PBF-150	PBF-200	PBF-400	Chemical Tank
Type	Portable Thermal Aerosol Fog	Portable Aerosol And U.L.V	Thermal Aerosol Fog	
Starting Method	Push Button to Start	Push Button to Start	Fully Automatic Complete Remote Control	
Power Supply	12V DC Rechargeable Battery	12V DC Rechargeable Battery	12V DC Vehicle Battery	
Dimensions (L×W×H)mm	1,370×240×360	1,380×250×370	1,330×710×490 1번	
Weight (Empty)	9 kg	10 kg	35 kg 2번	
			20 kg	
Fuel Tank Capacity	1.8 ℓ	1.8 ℓ	16 ℓ	
Fuel Consumption	1.8 ℓ/ h	1.8 ℓ/ h	3.6 ℓ/ h	
Chemical Tank Capacity	8 ℓ	8 ℓ	100 ℓ (option : 150 ℓ)	
Chemical Output	40 ℓ/ h	50 ℓ/ h	85 ℓ/ h	
Chemical Tank Material	Stainless Steel	Stainless Steel	Stainless Steel	
Shipping Dimensions (L×W×H)mm	1,360×240×350	1,360×240×350	1550 X 725 X 610	
			1080 X 425 X 500	
Shipping Weight (Empty)	12.9 kg	13.3 kg	50 kg 3번	
			30 kg	

* The shape & specification will be changed without notice.

PORTABLE THERMAL FOGGER P-TH-130 (AUTOMATIC/MANUAL)



Tank Capacity	Fuel	Engine	Droplet Size	Net weight	Dimensions
4.5 Liter	Petrol	Pulse Jet	0~5 microns	8.5 kg	1,180×230×330 mm

Product Features (P-TH-130)

The portable thermal fogger is ideal for a wide range of uses including vector and pest control application. Features include a 4.5 liter plastic tank, a flow rate of 40 ℓ/h and automatic start. With a net weight of only 8.5kg the PTH-130 is capable of dispersing disinfectants and insecticides quickly and effectively in a variety of locations including parks, warehouses, greenhouses, factories, farms, poultry houses, silos and more. More technical information on page 08.

PORTABLE THERMAL FOGGER P-TH-150 (TH-150)



Tank Capacity	Fuel	Engine	Droplet Size	Net weight	Dimensions
6.5 Liter	Petrol	Pulse Jet	0~5 microns	12 kg	1,350×290×390 mm

Product Features (P-TH-150)

Manufactured with durability and resistance in mind, this portable thermal fogger is made out of high grade stainless steel. As well as resistance to corrosion and heat, this superior steel is also resistant to oil based chemicals, hydrogen peroxide, kerosene and acids. Features include a 6.5 liter stainless steel tank, a flow rate of 50 ℓ/h and automatic start. Thanks to its simple, durable and efficient design, this thermal fogger will provide you years of durability and performance. More technical information on page 08.

PORTABLE AUTOMATIC CHEMICAL SPRAYER P-SG-SUPER (SUPER FOGGER)-STAINLESS CHEMICAL TANK



Tank Capacity	Fuel	Engine	Droplet Size	Net weight	Dimensions
1.2 Liter	Petrol	Pulse Jet	0~5 microns	9 kg	Made to Measure

Product Features (P-SG-SUPER)

It is Optimal machine for disease prevention. The Super fog is Simplified for easy use, low maintenance. This is Stainless Body for Preventing electric discharge. This has Light and balanced feature, Quick start, One touch start. This has Powerful ejection and it is reasonable Price.

MOTORCYCLE MOUNTED THERMAL FOG P-TH-180 (TH-180)



Tank Capacity	Fuel	Engine	Droplet Size	Net weight	Dimensions
15 Liter	Petrol	Pulse Jet	0~5 microns	20 kg	Made to Measure

Product Features (P-TH-180)

Designed to be fitted to the back of a motorbike or quad-bike, the PTH-180 is the ideal fogger for fast dispersion of disinfectants or insecticides in towns and farms. Features include 15 liter tank, automatic start and a powerful outflow 52 l/h. It can also be custom built to fit customer's specific requirements. More technical information on page 08.

TROLLEY MOUNTED THERMAL FOGGER P-TH-250 (TH-250)

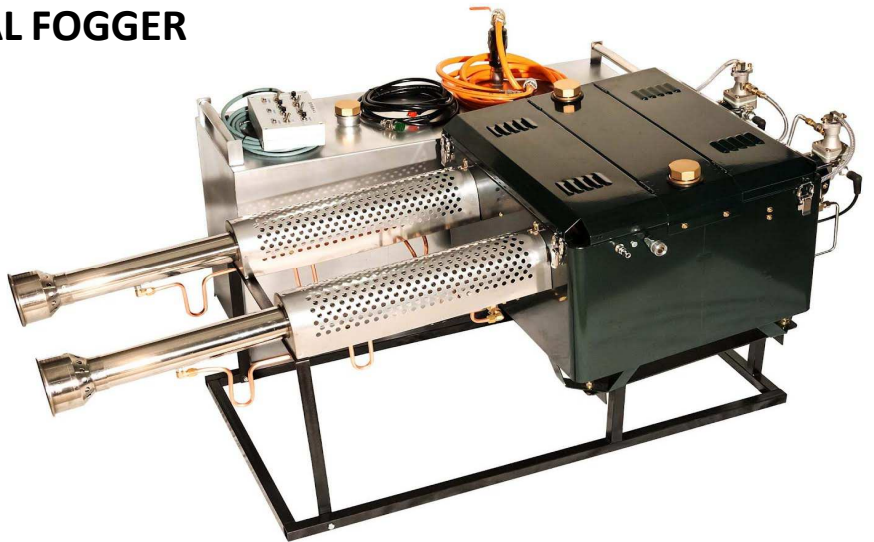


Tank Capacity	Fuel	Engine	Droplet Size	Net weight	Dimensions
30 Liter	Petrol	Pulse Jet	0~5 microns	36 kg	1,650×1,100×580 mm

Product Features (P-TH-250)

The PTH-250 trolley mounted thermal fogger is ideal for medium size fogging applications and It's perfect in location where access to vehicles is limited. Features include a 30 liter stainless steel tank, a flow rate of 50 ~ 80 ℓ/h and auto matic start. Thanks to its large chemical tank, this thermal fogger can be used for long periods at a time, without the need to refill. More technical information on page 08.

TRUCK MOUNTED THERMAL FOGGER P-TH-400 (TH-400)



Tank Capacity	Fuel	Flow Rates	Droplet Size	Net weight	Dimensions
150 Liter	Petrol	200 – 300 liter/h	0~5 microns	120 kg	1,650×720×800 mm

Product Features (P-TH-400)

The PTH-400 truck mounted thermal fogger is ideal for large fogging applications, including control and agricultural fumigation. Features include a large 150 liter stainless steel tank, duel resonator, remote control and a low rate of 200 ~ 300 ℓ/h . Thanks to its powerful flow rate, this thermal fogger can quickly cover a large area in the minimum amount of time. More Technical information on page 08.

THERMAL FOGGER

BLUEWAVE FOGGER						
Model	P-TH-130	P-TH-150	P-SG-SUPER	P-TH-180	P-TH-250	P-TH-400
Type	Potable	Potable	Potable	Motorcycle Mounted	Trolley Mounted	Truck Mounted
Application	Oil based chemicals only	Oil based chemicals only	Oil based chemicals only	Oil & Water based chemicals only	Oil & Water based chemicals only	Oil & Water based chemicals only
Maximum Flow Rate Of Oil Base Solutions	40 ℓ/h	50 ℓ/h	50 ℓ/h	60 ℓ/h	80 ℓ/h	200 - 300 ℓ/h
Average Flow Rate With Water	30 ℓ/h	40 ℓ/h	40 ℓ/h	45 ℓ/h	50 ℓ/h	110 ℓ/h
Solution Tank Capacity	4.5 ℓ	6.5ℓ	6.5ℓ	15 ℓ	30 ℓ	150 ℓ
Solution Tank Pressure	0.15kgf/cm ² (2.13PSI, 0.147bar)	0.15kgf/cm ² (2.13PSI, 0.147bar)	0.15kgf/cm ² (2.13PSI, 0.147bar)	0.15kgf/cm ² (2.13PSI, 0.147bar)	0.15kgf/cm ² (2.13PSI, 0.147bar)	0.15kgf/cm ² (2.13PSI, 0.147bar)
Droplet Size	0~5 microns	0~5 microns	0~5 microns	0~5 microns	0~5 microns	0~5 microns
Motor	Pulse Jet Engine	Pulse Jet Engine	Pulse Jet Engine	Pulse Jet Engine	Pulse Jet Engine	Pulse Jet Engine
Fuel Tank Capacity	1.2 ℓ	1.2 ℓ	1.2 ℓ	2.4 ℓ	3.2 ℓ	15 ℓ
Fuel Consumption	1.2 ℓ/h	1.2 ℓ/h	1.3 ℓ/h	1.8 ℓ/h	1.8 ℓ/h	4.3 ℓ/h
Fuel Type	Unleaded Petrol	Unleaded Petrol	Unleaded Petrol	Unleaded Petrol	Unleaded Petrol	Unleaded Petrol
Performance Of Combustion Chamber	19kW / 22.5hp	19kW / 22.5hp	19kW / 22.5hp	21kW / 28.2hp	23kW / 30.8hp	46kW / 61.7hp
Spray Distance (Horizontal)²	15 - 20 meters	20 - 25 meters	20 - 25 meters	25-30 meters	30 - 40 meters	20 - 40 meters
Spray Distance With Water Base (Horizontal)²	8 meters	9 meters	9 meters	11 meters	12 meters	15 meters
Power Supply	6V Rechargeable Battery	6V Rechargeable Battery	6V Rechargeable Battery	6V Rechargeable Battery	6V Rechargeable Battery	12V Rechargeable Battery
Dimensions	1,150×340×250	1,350×290×390	1,180×230×330	1,410×340×430	1,650×1,100×580	1,620×720×800
Net Weight	8.5 kg	10.8 kg	9.0 kg	15 kg	36 kg	150 kg

* The shape & specification will be changed without notice.

PORTABLE THERMAL FOGGER P-FN-M (FONY M)



Tank Capacity	Fuel	Engine	Droplet Size	Net weight	Dimensions
2.7 Liter	Petrol	Pulse Jet	0~5 microns	6 kg	860×240×320 mm
5.5 Liter	Petrol	Pulse Jet	0~5 microns	6.5 kg	920×360×250 mm

Product Features (P-FN-C)

The portable thermal fogger is ideal for a wide range of uses including vector and pest control application. Features include a 2.7 liter plastic tank, a flow rate of 20 ℓ/h and automatic start. With a net weight of only 6.0kg the FONY is capable of dispersing disinfectants and insecticides quickly and effectively in a variety of locations including parks, warehouses, greenhouses, factories, farms, poultry houses, silos and more. More technical information on page 11.

		
Model	P-FN M 2.7L	P-FN M 5.5L
Type	Portable Thermal Aerosol Fog	Portable Thermal Aerosol Fog
Starting Method	Fuel Adjustment Handle Type	Fuel Adjustment Handle Type
Power Supply	6V DC Rechargeable Battery	6V DC Rechargeable Battery
Dimensions (L×W×H)mm	860×240×320	920×360×250
Weight (Empty)	6 kg	6.5 kg
Fuel Tank Capacity	1.0 ℓ	1.7 ℓ
Fuel Consumption	1.2 ℓ/ h	1.2 ℓ/ h
Chemical Tank Capacity	2.7 ℓ	5.5 ℓ
Chemical Output	20 ℓ/ h	24 ℓ/ h
Chemical Tank Material	Plastic	Plastic
Shipping Dimensions (L×W×H)mm	860 X 240 X 320	940×260×250
Shipping Weight (Empty)	8 kg	9 kg

* The shape & specification will be changed without notice.

PORTABLE MINI THERMAL FOGGER P-KB-100 (KB-100)



Tank Capacity	Fuel	Engine	Droplet Size	Net weight	Dimensions
2.8 Liter	Gas/Propane	Cartridge	5~30 Microns	1.7 kg	610×410×175(mm)

Product Features (P-KB-100)

The KB-100 is powered by a standard propane or butane gas cartridge. The water or oil dilutante is heated and then the chemical is added at the last moment to create a fog or mist. Features include a 2.8 liter tank, Flow rate of 2 ℓ/h and strap for portability. The KB-100 is ideal for fogging pesticides and disinfectants in location with no access to electricity including patios, parks, chicken coops and greenhouses. More technical information on page 14.

PORTABLE MINI THERMAL FOGGER P-KB-90 (KB-90)



Tank Capacity	Fuel	Engine	Droplet Size	Net weight	Dimensions
2.8 Liter	Gas/Propane	Cartridge	5~30 Microns	1.2 kg	400×175×340(mm)

Product Features (P-KB-90)

The KB-90 is powered by a standard propane or butan gas cartridge. When it is in action, the insecticide is vaporized by being heated through the heating coil. The vaporized insecticide is sprayed into fine particles. The KB-90 is ideal for fogging pesticides and disinfectants in location with no access to electricity including patios, parks, chicken coops and greenhouses. More technical information on page 14.

PORTABLE MINI THERMAL FOGGER P-SU (SUPER-2000)



Tank Capacity	Fuel	Engine	Droplet Size	Net weight	Dimensions
2.0 Liter	Gas/Propane	Cartridge	0~5 Microns	1.8 kg	450×150×330(mm)

Product Features (P-SU)

- Coil cooling and washing equipment mounted : World patent
- Applicable to open wide places like cow houses, pigsties, hen houses, gardens and schools
- Portable and easy to use.
- No stuffy coil phenomenon by coil stuffing removing equipment
- Ultra light and ultra micro sprayer
- Economical (Spray a large area with small spraying amount)

PORTABLE MINI FOGGER P-T112 (DIA FOGGER)



Tank Capacity	Fuel	Engine	Droplet Size	Net weight	Dimensions
2.8 Liter	Gas/Propane	Cartridge	0~5 Microns	1.2 kg	500×180×330(mm)

Product Features (TH-112)

- Nozzle is not clogged
- Durability has improved
- Be of portable size

PORTABLE MINI THERMAL FOGGER P-SU3000 (SUPER-3000 GOLD)



Tank Capacity	Fuel	Engine	Droplet Size	Net weight	Dimensions
3.0 Liter	Gas/Propane	Cartridge	5~30 Microns	4 kg	610×205×450(mm)

Product Features (P-SU3000)

- Automatic continuous injection with one pumping action is possible. (Semiautomatic injection system)
- It can be used anywhere and at any time as it is easy to carry.
- Everybody can drive with the minimum education
- Coil blockage is resolved by installing coil washing device.
- It is economic as it sprays over a wide area with small amount.
- Continuous work is possible with maintaining fire power of gas by applying gas heat reserving system (a patent holding)
- It has a strong smokescreen power that prevents a wide area in a short time.

INFORMATION ON EACH COMPONENTS OF THE PRODUCT



액체탱크 Liquid tank



보온/냉각용 탱크 Heating/cooling tank



노즐 노즐부품 Nozzle spray gun



엔진 제어 장치 Engine control system



연료탱크 Fuel tank



연료탱크 Fuel tank

					
Model	P-KB-100	P-KB-90	P-SU (SUPER-2000)	P-T112 (DIA FOGGER)	P-SU3000 (SUPER-3000 GOLD)
Type	Portable Mini	Portable Mini	Portable Mini	Portable Mini	Portable Mini
Application	Oil & water based chemicals	Oil based chemicals	Oil based chemicals	Oil based chemicals	Oil based chemicals
Maximum Flow Rate Of Oil Base Solutions	2 ℓ/ h	2 ℓ/ h	2 ℓ/ h	2 ℓ/ h	2 ℓ/ h
Solution Tank Capacity	2.8 ℓ	2.8 ℓ	2.0 ℓ	2.8 ℓ	3.0 ℓ
Solution Tank Pressure	0.15kgf/cm ² (2.13PSI, 0.147bar)	0.15kgf/cm ² (2.13PSI, 0.147bar)	0.15kgf/cm ² (2.13PSI, 0.147bar)	0.15kgf/cm ² (2.13PSI, 0.147bar)	0.15kgf/cm ² (2.13PSI, 0.147bar)
Droplet Size	5 ~ 30 microns	5 ~ 30 microns	5 ~ 30 microns	5 ~ 30 microns	5 ~ 30 microns
Fuel Tank Capacity	Butane gas cartridge	Butane gas cartridge	Butane gas cartridge	Butane gas cartridge	Butane gas cartridge
Fuel Type	Gas / propan gas	Gas / propan gas	Gas / propan gas	Gas / propan gas	Gas / propan gas
Spray Distance (Horizontal)²	8 ~ 10 meters	8 ~ 10 meters	8 ~ 10 meters	8 ~ 10 meters	8 ~ 10 meters
Spray Distance With Water Base (Horizontal)²	8 meters	8 meters	8 ~ 10 meters	8 ~ 10 meters	8 ~ 10 meters
Dimensions	610×175×400 (mm)	400×175×340 (mm)	450×330×150 (mm)	500x180x330 (mm)	610x205x450 (mm)
Net Weight	1.7 kg	1.2 kg	1.8 kg	1.2 kg	4kg
Shipping Dimensions	610×180×410(mm) / Unit 740×640×450(mm) / CTS(4un)	440×160×340(mm) / Unit 970×400×470(mm) / CTS(5un)	510×195×340(mm) / Unit 970×525×380(mm) / CTS(5un)	500x170x330(mm) / Unit 910x510x350(mm) / CTS(5un)	610x205x405(mm) / Unit 660x635x435(mm) / CTS(3un)
Shipping Weight	3.0 kg (unit) / 14.0 kg(Carton)	3.0 kg (unit) / 16.0 kg(Carton)	3.0 kg (unit) / 16.0 kg(Carton)	2.0 kg (unit) / 10.0 kg(Carton)	6.9 kg (unit) / 16.2 kg(Carton)

TRUCK(BEHICLE) MOUNTED U.L.V COLD FOGGER-TURBO-1200U

SPECIFICATION	
Tank capacity	130 ℓ
Fuel	Petrol
Fuel Tank	5 ℓ
Actual Range	7 ~ 10 meters
Net Weight	90 kg
Dimensions	1110x720x700(mm)
Flow rate	130ℓ/h



Product Features (TURBO-1200U)

- Low noise, low vibration, space-saving design optimal vehicle equipment.
- 7 ~ 10meters space available to spray high-pressure air flow through the nozzle 20 ~ 50μm
- Ultrafine particles blown wide spray nozzle
- Starting way anyone can easily use key type
- It can operate as a wired control box inside a a cabin

TRUCK(BEHICLE) MOUNTED U.L.V COLD FOGGER-TURBO-1200UA

SPECIFICATION	
Tank capacity	130 ℓ
Fuel	Petrol
Fuel Tank	5 ℓ
Actual Range	7 ~ 10 meters
Net Weight	90 kg
Dimensions	1110×720×700
Flow rate	130ℓ/h



Product Features (TURBO-1200UA)

- Low noise, low vibration, light weight shoes, space-saving design optimal vehicle equipment.
- 7 ~ 10meters space available to spray high-pressure air flow through the nozzle 20 ~ 50μm
- Ultrafine particles blown wide spray nozzle
- Starting way anyone can easily use key type
- It can operate as a wired control box inside a cabin

		
Model	TURBO-1200U	TURBO-1200UA
Type	Behicle Mounted U.L.V Cold Fogger	Behicle Mounted U.L.V Cold Fogger
Motor Output	DC 12V 24A	DC 12V 24A
Capacity Of Chemical	130 L	130 L
Injection Distance	7 ~ 10 meters	7 ~ 10 meters
Particle Size	20 μ m	20 μ m
Color	BASIC: ORANGE	BASIC: ORANGE
Power Source	AC 110V / 60Hz AC 220V / 60Hz	AC 110V / 60Hz AC 220V / 60Hz
Size	1110×720×700 (mm)	1110×720×700 (mm)
Weight	90 kg	90 kg
Wire Length	4 meters	4 meters
Shipping Size	1110×720×700 (mm)	1110×720×700 (mm)
Shipping Weight	93 kg	93 kg

* The shape & specification will be changed without notice.

TRUCK(BEHICLE) MOUNTED U.L.V COLD FOGGER P-HC-L (HURICANE-L)

SPECIFICATION	
Tank capacity	150 ℓ
Fuel	Petrol
Fuel Tank	5 ℓ
Actual Range	7 ~ 10 meters
Net Weight	90 kg
Dimensions	900×550×900
Flow rate	50~150ℓ/h



Product Features (P-HC-L)

- Low noise, low vibration, light weight shoes, space-saving design optimal vehicle equipment.
- 7 ~ 10meters space available to spray high-pressure air flow through the nozzle 20 ~ 50μm
- Ultrafine particles blown wide spray nozzle
- Starting way anyone can easily use key type
- It can operate as a wired control box inside a car boot and drugs

	
Model	P-HC-L
Type	TRUCK MOUNTED U.L.V COLD FOGGER
Power	4 stroke air cooled petrol engine
Performance	6.7 ~ 7.0HP 1,800 ~ 2,000 RPM
Tank Capacity	150 ℓ
Chemicals	Water based chemicals
Flow Rate	50 ~ 150ℓ/h
Droplet Size	5 ~ 50 microns
Spray Distance	10 ~ 20 meters
Net Weight	90 kg
Dimension	900×550×900 (mm)
Features	- Remote control - Adjustable horizontal Vertical angle

* The shape & specification will be changed without notice.

PORTABLE U.L.V COLD FOGGER P-DP(DOLPHINE)

SPECIFICATION	
Tank capacity	5.5 ℓ
Power	110 V / 220 V
Drug injection	Max 0.25 ℓ/m
Body Materials	Stainless steel
Dimensions	540×280×350
Weight	5.2 kg



Product Features (P-DP)

- Ultrafine drug does not flow down to the floor space 100% complete, Sapporo sterilization, insecticidal effect
- Indoor and outdoor use wherever possible of the motor U.L.V cold fogger.
- Ultrafine particles scattering effect and outstanding with a powerful vortex AIR FOIL FAN type

PORTABLE U.L.V COLD FOGGER (Engine type) P-TP (TYPHOON)

SPECIFICATION	
Tank capacity	5.5 ℓ
Engine output	7000 RPM
Drug injection	4~20 ℓ/h
Body Materials	Stainless steel
Dimensions	565×208×390
Weight	9.5 kg



Product Features (P-TP)

- Ultrafine drug does not flow down to the floor space 100% complete, Sapporo sterilization, insecticidal effect
- Indoor and outdoor use wherever possible of the engine type U.L.V cold fogger.
- Ultrafine particles scattering effect and outstanding with a powerful vortex AIR FOIL FAN type
- Equipment that can be adjusted by adding the required amount of time and the timer function unattended sterilizer

PORTABLE U.L.V COLD FOGGER P-A II (ATOMER- II)

SPECIFICATION	
Tank capacity	4 ℓ
Rated Current	1.4kW
Particle size	20~50μm
Discharge Rate	1.2L/min
Dimensions	655×200×310
Weight	4.3 kg



Product Features (P-A II)

- Optimized design for small scale work
- The consumption of chemical is minimized while pest or diseases control effect is maximized due to the spray system of the ultra fine particles
- It relieves the fatigue of wrists by moving the injection nozzle up and down.
- The built - in design of the injection nozzle makes its storage easy.

			
Model	P-DP (DOLPHIN)	P-TP (TYPHOON)	P-A II (ATOMER- II)
Type	Portable U.L.V Cold Fogger	Portable U.L.V Cold Fogger	Portable U.L.V Cold Fogger
Power	Electric power 220 V	4 stroke air cooled petrol engine	Electric power 220 V
Performance	1,100 W	1.6 P.S 7,000 RPM	1,0000 RPM
Tank Capacity	5.5 ℓ	5.5 ℓ	4 ℓ
Chemicals	Water based chemicals	Water based chemicals	Water based chemicals
Flow Rate	15 ~ 30 ℓ/h	4~20 ℓ/h	1.2ℓ/m
Droplet Size	30 ~ 50 microns	30 ~ 50 microns	20~50μm
Spray Distance	5 ~ 15 meters	5 ~ 15 meters	-
Net Weight	5.2 kg	9.5 kg	4.3 kg
Dimension	540×280×350 (mm)	565×390×208 (mm)	655×200×310(mm)
Features	- Motor type - Stainless body	- Engine type - Stainless body	-Optimized design for small scale work -It relieves the fatigue of wrists by moving the injection nozzle up and down.

* The shape & specification will be changed without notice.

PORTABLE U.L.V COLD FOGGER P-FG (FLUGUN)

SPECIFICATION

Power	220V(1.1kw)5A
Power Consumption	900w
Weight	3.6kg(with full liquids)
Liquid Capacity	0.6L(W) / 1.2L(C)
Dimensions (D X W X H)	415 X 188 X 184
Duration	30min
Throw Distance	5~7m
Liquid Flow Rate	1(C) : 1.5(W)
Particle Size	20µm
Wire	5m (option : 10m, 15m)



Product Features (P-FG)

- **Efficiency** : UMLV sprayer system
- **Safety** : Low-temperature steam
- **Economical Efficiency** : Steam sprayer system
- **Environmental Effect** : A large amount of anions

PORTABLE U.L.V COLD FOGGER P-MFG(MINI FLUGUN)

SPECIFICATION

Tank capacity	200 mℓ
Power	DC 12V 54W
Motor	Air Pump + High-efficiency Battery
Flow rate	16cc/min
Droplet size	5 ~ 20µm
Net weight	300g
Dimensions (L×W×H)	250×120×240



Product Features (P-MFG)

- **Efficiency** : Fine particles Spray System
- **Mobility** : High portability
- **Safety** : Safety in the use of chemicals
- **Versatility** : Application versatility
- **Convenience** : Easy to use applicator with professional results obtainable

		
Model	P-FG (FLUGUN)	P-MFG (MINI FLUGUN)
Type	Potable U.L.V Cold Fogger	Potable U.L.V Cold Fogger
Motor Output	900 W	DC12V, 54W (Air Pump + High-efficiency Battery)
Capacity Of Chemical	0.6 ℓ (Water) 1.2 ℓ (Chemical)	200 ml
Injection Distance	5 ~ 7 meters	5 ~ 7 meters
Particle Size	20 μm	20 μm
Color	White + Sky blue	Blue, Red
Power Source	110 V / 220 V	AC 110V / 60Hz AC 220V / 60Hz
Size	415×184×188 (mm)	250×120×240 (mm)
Weight	2.8 kg	1.6 kg
Wire Length	5 meters (option : 10, 15m)	N/M (Wireless)
Shipping Size	500×280×290 (mm)	430×180×370 (mm)
Shipping Weight	5.5 kg	4 kg

* The shape & specification will be changed without notice.

PORTABLE U.L.V COLD FOGGER P-BR (BURE)

SPECIFICATION

Tank capacity	3 ℓ
Power	100v / 110V / 220V / 240V
Wire Length	6 meters (19.7 ft)
Throw Distance	5 ~ 10 meters
Droplet size	10 ~ 50 μm
Net weight	2.9 kg
Dimensions (L×W×H)	550×160×250 mm



Product Function (P-BR)

Strong injection and ultra-low volume spraying function ensures the penetration and diffusion of the drug to fine areas.

- Enables defense against infectious pathogens, and ensures efficient space utilization
- Ensures sterilization of the cattle shed and building
- Suitable for exterminating various harmful insects, such as fly, mosquito, etc
- Enables the sterilization of every corner of the surrounding area(environment)
- Installation by injection distances(speed control) function

PORTABLE U.L.V COLD FOGGER P-BR-3N (BURE 3NEW)

SPECIFICATION

Tank capacity	3 ℓ
Power	100v / 110V / 220V / 240V
Wire Length	6 meters (19.7 ft)
Flow rate	5 ~ 10 meters
Droplet size	10 ~ 50 μm
Net weight	3.0 kg
Dimensions (L×W×H)	550×160×250 mm



Product Features (P-BR-3N)

Strong injection and ultra-low volume spraying function ensures the penetration and diffusion of the drug to fine areas.

- Enables defense against infectious pathogens, and ensures efficient space utilization
- Ensures sterilization of the cattle shed and building
- Suitable for exterminating various harmful insects, such as fly, mosquito, etc
- Enables the sterilization of every corner of the surrounding area(environment)
- Switch(On/Off) function

PORTABLE U.L.V COLD FOGGER P-AG(ANGAE FOG)

SPECIFICATION

Tank capacity	2.5ℓ / 4.5ℓ
Power	110V~125V 220V~240V
Wire Length	6 meters (19.7 ft) 10 meters (32.8 ft)
Throw Distance	5 ~ 10 meters (16.6~32ft)
Droplet size	5 ~ 20 μm
Net weight	2.0 kg / 2.2 kg
Dimensions (L×W×H)	425×140×240 mm 425×151×296 mm



Product Features (P-AG)

Powerful spray and Ultra-low particle permeates into even the minute area.

- Spraying of various substances(pesticide, disinfectant, air freshener, cleaning products, antibiotic, etc.)
- Injection type for spraying ultra-low particles.
- Non-stop system, from tank to nozzle.
- Realization of spare care and Maximization of space efficiency.
- Maximization of easiness of use through ultra-small and ultra light design(categorization per tank size : 2.5L/4.5L)
- Reduction of expenses and drug costs due to minimization of electrical power consumption and storage efficiency. – Air drying and air cleaning.

   			
Model	P-BR (BURE)	P-BR (BURE)	P-AN (ANGAE FOG 2.5)
			P-AN (ANGAE FOG 4.5)
Type	U.L.V Cold fogger	U.L.V Cold fogger	U.L.V Cold fogger
Motor Output	1,250 W	1,250 W	700 W
Capacity Of Chemical	3 ℓ (0.8 Gal)	3 ℓ (0.8 Gal)	2.5 ℓ (0.7 Gal)
			4.5 ℓ (1.2 Gal)
Injection Distance	5 ~ 10 m (16.6 ~ 32ft)	5 ~ 10 m (16.6 ~ 32ft)	5 ~ 10 m (16.6 ~ 32ft)
Particle Size	10 ~ 50 μm	10 ~ 50 μm	10 ~ 20 μm
Color	Green, Grey, Blue, Red	Green, Grey, Blue, Red	Ivory, Grey, Blue
Power Source	100V, 110V, 220V, 240V	100V, 110V, 220V, 240V	110V ~ 125V 220V ~ 240V
Size	550× 160×250 (mm) (6.3×21.7×9.8 in)	550× 160×250 (mm) (6.3×21.7×9.8 in)	425× 140×240(mm)
			425× 151×296(mm)
Weight	3.0 kg (6.83 lb)	2.9 kg (6.83 lb)	2.0 kg (4.4 lb)
			2.2 kg (4.8 lb)
Wire Length	6 meters (19.7 ft)	6 meters (19.7 ft)	6 meters (19.7 ft)
			10 meters (32.8 ft)
Shipping Size	580×170×280 (mm)	580×170×280 (mm)	440 X 150 X 260 (per unit) 615 X 300 X 460 (4UN/CTS)
Shipping Weight	4.8 kg	4.5 kg	3.3 kg (per unit) 14.7 kg (4UN/CTS)

* The shape & specification will be changed without notice.

PORTABLE U.L.V COLD FOGGER P-GF (Good Fog Cordless)

SPECIFICATION					
Model	GOOD FOG	GOOD FOG26	GOOD FOG26 LTE	GOOD FOG48	GOOD FOG48 LTE
Power	DC25.9 V	DC25.9 V	DC25.9 V	DC48.1 V	DC48.1 V
Rating	275W	300W	300W	480W	480W
Spray distance	5~7MT	5~7MT	5~7MT	6~8M	6~8M
Particle Size	10~30 μm	10~30 μm	10~30 μm	7~30 μm	7~30 μm
Chemical Tank Capacity	3.3L	3.3L	3.3L	3.3L	3.3L
Size (W*D*H)	583X162X276	583X162X276	583X162X276	583X162X276	583X162X276
Weight	3.6KG	3.9KG	4.2KG	4.6KG	5.0KG
Working time	49MINS (consecutively)	1hour (consecutively)	1hour 15 MINS (consecutively)	52MINS (consecutively)	1hour 10 MINS (consecutively)



Product Features (P-GF)

Powerful spray and Ultra-low particle spray permeates into even the minute area.

- Rechargeable Battery
- Extended working time by using lithium-ion battery
- 3.3 Liters chemical tank
- From Tank to nozzle Non-stop system
- ULV spray

PORTABLE WIRELESS U.L.V P-MG(H) (MOO-GUN)

SPECIFICATION

Model	MOO-GUN	MOO-GUN H
Power	DC12V	DC14.8V
Rating	6.6A	6.6A
Spray distance	3~5M	3~5M
Particle Size	30~50 μ m	30~50 μ m
Chemical Tank Capacity	5L	5L
Size (W*D*H)	195*540*270	195*540*270
Weight	3.1KG	3.1KG
Working time	2 Hours Continuously	2 Hours Continuously



Product Features (P-MG[H])

- Battery charge way
- Stainless body and luxurious appearance
- Extended working time by using lithium-ion battery
- Prevent water flow back to machine by forcing pump
- Minimize chemical in tank by forcing pump
- Control chemical volume(Pump motor output control)

PORTABLE U.L.V COLD FOGGER P-WI(W.S)

SPECIFICATION

Used power	AC 220V, 50~60Hz
Power Consumption	600 W
RPM	26,000RPM
Particle Size	10~20 μ m
Spraying distance	15m
Injection quantity	20 liters/hr
Cable length	8m
Weight	2 kg
Body Material	Plastic / Acetal (Polyoxymethylene)
Chemical tank capacity	4.5 l
Nozzle no	3 nozzles
Spraying time	10 minutes



		
Model	P-GF(Good Fog)	P-GF48(Good Fog48)
	P-GF26(Good Fog26)	P-GF48LTE (Good Fog48 LTE)
	P-GF26LTW (Good Fog26 LTE)	
Type	U.L.V Cold fogger	U.L.V Cold fogger
Motor Output	275W	480W
	300W	480W
	300W	
Capacity Of Chemical	3.3 Liter	3.3 Liter
Injection Distance	5~7m	6~8m
	5~7m	6~8m
	5~7m	
Particle Size	10~30μm	7~30μm
	10~30μm	7~30μm
	10~30μm	
Color	Yellow, Blue, Gray	Yellow, Blue, Gray
Power Source	DC25.9V	DC48.1V
	DC25.9V	DC48.1V
	DC25.9V	
Size	583×162×276	583×162×276
Weight	3.6kg	4.6kg
	3.9kg	5.0kg
	4.2kg	
Wire Length	N/A	N/A
Shipping Size	633×212×326	633×212×326
Shipping Weight	4.6kg	5.6kg
	4.9kg	
	5.2kg	6.0kg

* The shape & specification will be changed without notice.

			
Model	P-MG (MOO-GUN)	P-WI-W.S (WILLY W.S)	
	P-MG-H (MOO-GUN H)		
Type	Wireless U.L.V Cold Fogger	U.L.V Cold fogger	
Motor Output	6.6A	600 W	
Capacity Of Chemical	5L	4.5 L	
Injection Distance	3~5m	15m	
Particle Size	30~50 μ m	10~20 μ m	
Color	N/A	N/A	
Power Source	DC12V	AC 220V, 50~60Hz	
	DC14.8V		
Size	195×540×270	430 X 270 X 150	
Weight	3.1kg	2.0 kg	
	3.4kg		
Wire Length	N/A	8 m	
Shipping Size	580*440*318 (2 units)	670*320*470 (4 units)	
Shipping Weight	12 kg	15 kg	

* The shape & specification will be changed without notice.

Light weighted Sprayer P-BK6030 (MIST DUSTER)



Chemical Tank Capacity	Fuel	Engine	Net weight	Dimensions
30.0 Liters	Gasoline: 2 Cycle Oil (25:1)	KUMYONG Engine	12.8 kg	450×520×760(mm)

Product Features (P-BK6030)

- Ultra light weighted sprayer that can easily operated.
- Originally made by Korean technology
- Fertilizer, powder, liquid spray can be applied in one pharmaceutical tank

PORTABLE U.L.V cold fogger P-EBL-AC

SPECIFICATION	
Model	P-EBL-AC
Weight	3.6 kg
Power	220V/50~60Hz
Spraying distance	7~10M
Dimensions	560 X 240 X 160(MM)
Motor Power	1250W
Chemical Tank	3L
Particle Size	10~40μm
Dimensions	560 X 240 X 160(MM)



Product Features P-EBL-AC

1. Efforts have been made to prevent motor and PCB breakdown during continuous use of the product.
2. Using the lid of the medicine container, it can be used as an improved cup.
3. The strength and weakness of the drug can be adjusted using the turn switch.
4. By spraying ultra-fine particles, the chemicals penetrate into the fine parts to maximize the disinfection effect.
5. Solenoid valve and reverse flow valve were installed so that drugs do not flow down to the PCB direction when the switch is turned off.

PORTABLE Wireless U.L.V cold fogger P-SUAVI DC

SPECIFICATION	
Model	SUAVI DC
Weight	1.9 kg
Battery	SAMSUNG SDI / LG CHEMICAL Li-ion Battery
Spraying distance	3~4M
Standard Voltage	DC 25.2V / 3A, 130W
Model	SUAVI DC
Dimensions	350 X 170 X 180(MM)
Motor Rating	300W
Chemical Tank	1L
Spraying size	330 square meters
Button	One touch type



Product Features SUAVI DC

1. It penetrates into the hard-to-reach gaps as ultrafine particles, eliminating the virus simply and effectively
2. Turbine motor spraying without distortion or weakening of the drug components
3. It is a battery-integrated wireless type that is more active than a wired type and is used for 4 hr for 1 hr for charging, so it is highly utilized for its size and weight

BLUEWAVE U.L.V	
Model	P-EBL-AC (BLAST AC)
Type	U.L.V Cold Fogger
Dimensions	560 X 240 X 160(MM)
Motor Power	1250W
Chemical Tank	3L
Particle Size	10~40μm
Spraying distance	7~10M
POWER	220V/50~60Hz
Weight	3.6kg
Shipping Size	610*290*210
Shipping Weight	5 kg

BLUEWAVE U.L.V	
Model	SUAVI DC
Weight	1.9 kg
Battery	SAMSUNG SDI / LG CHEMICAL Li-ion Battery
Spraying distance	3~4M
Standard Voltage	DC 25.2V / 3A, 130W
Model	SUAVI DC
Dimensions	350 X 170 X 180(MM)
Motor Rating	300W
Chemical Tank	1L
Spraying size	330 square meters
Button	One touch type

		
Model		P-BK6030
Type		Air-Cooled 2 Cycle Gasoline Engine (Single Cylinder)
Chemical Tank Capacity		30L
Air Blower Rev counter		6,500 RPM
Air Blower type		Multi Blade Centrifugal Blower
Discharge Rate	Powder	6 kg/min
	Liquid	-
	Granule	20kg/min
Discharge distance	Max	28m
	Effective	20m
Maximum Power		3.7/7,500 ps/rpm
Maximum Torque		0.38/5,000 kgf.m/rpm
Fuel used		Gasoline(25) : 2 Cycle Oil(1)
Dimensions		450×520×760 (mm)
Net Weight		12.8 kg
Shipping Dimensions		450 x450x820(mm) / CTS(1un)
Shipping Weight		13 kg

ROACH CONTROL GEL P-TB-G (TOP BAIT GOLD)

INGREDIENT

Chemical abstracts name : % by weight

Fipronil	0.05%
Inert Ingredient	99.95%



ROACH CONTROL GEL P-TB-M (TOP BAIT MAX)

INGREDIENT

Chemical abstracts name : % by weight

Hydramethylnon	2.00 %
Inert Ingredient	98.00%



ROACH CONTROL GEL P-TB-I(TOP BAIT IMIDA)

INGREDIENT

Chemical abstracts name : % by weight

Imidacloprid	2.15 %
Inert Ingredient	97.85%



Product Features (TOP BAIT SERIES)

• Dosage

Apply this product at the ratio of 1.5g per 3.3m² at the place where cockroaches are frequent in the dark and damp place (paper or silver paper use)

• Effect : Control of cockroaches

• Storage way : in sealed container, Cool and shady place

• Features

- Easy to use
- No fumes or vapor
- For hard to reach places suck as cracks and crevices

ROACH CONTROL STATION P-RZS (ROACH ZERO STATION)

INGREDIENT

Chemical abstracts name : % by weight

Propoxur	2.00 %
Inert Ingredient	98.00 %

Product Features (P-RZS)

Package

- For a small cockroach : 2g X 12ea / pack X 50pack / CT
- For a big cockroach : 4g X 6ea / pack X 50pack / CT



ROACH CONTROL STATION P-RZFS (ROACH ZERO FORTE STATION)

INGREDIENT

Chemical abstracts name : % by weight

Chlorpyrifos	0.08 %
Inert Ingredient	99.92%

Product Features (P-RZFS)

Package

- For a small cockroach : 2 g X 12 ea / pack X 50 pack / CT
- For a big cockroach : 4 g X 6 ea / pack X 50 pack / CT



INSECTICIDE FUMIGATOR P-FGT (BUGHUNTER)

INGREDIENT

Chemical abstracts name : % by weight

Permethrin	12.60 %
Inert Ingredient	97.40 %

Product Features (P-FGT)

Package

- Packing : 100 ea (10 pack × 10 box)



ANT GRANUL STATION

P-AGS (ANT GRANULES STATION)

INGREDIENT

Chemical abstracts name : % by weight

Hydramethylnon	1.00 %
Inert Ingredient	99.00 %

Product Features (P-AGS)

TYPE

- Yellow or brown granule with unique odour

METHOD OF STORAGE

- Light resistant tight container, safekeeping at room temperature (1°C ~ 30°C)

Package

- Pack : 1 g X 10 ea / Carton : 100 pack



ANT GRANUL

P-AG (ANT GRANULES)

INGREDIENT

Chemical abstracts name : % by weight

Hydramethylnon	1.00 %
Inert Ingredient	99.00%

Product Features (P-AG)

TYPE

- Yellow or brown granule with unique odour

METHOD OF STORAGE

- Light resistant tight container, safekeeping at room temperature (1°C ~ 30°C)

Package

- 30 g Bottle : 160 ea / Carton, 250 g Bottle : 10 ea / Carton



ANT CONTROL GEL

P-ACG (ANT CONTROL GEL)

INGREDIENT

Chemical abstracts name : % by weight

Chlorpyrifos	1.10 %
Inert Ingredient	98.90%

Product Features (P-ACG)

Package

- 35 g SYRINGE(50 ea / CT), 50 g SYRINGE(120 ea / CT)



RODENT CONTROL

P-DG-1111 (RODENT GLUE BOARD)

Product size	Folded 160 × 215(mm) Unfolded 327 × 160(mm)
Package	2PK 2boards/box, 50boxes/carton 5PK 5boards/box, 20boxes/carton 10PK 10boards/box, 10boxes/carton Bulk packed 100boards/carton
Carton Size	2PK 578 × 351 × 233(mm) 5PK 541 × 351 × 233(mm) 10PK 530 × 351 × 233(mm) Bulk packed 550 × 350 × 233(mm)
Gross weight	Approximately 14kg



Characteristics of product (P-DG-1111)

- It is an environmentally friendly product without containing poisonous substances which are harmful to the human body.
- It is able to add attracting agent such as peanuts or vanilla scent for manufacturing.
- Liquid adhesive is applied as the form of □□ to raise the capturing effect.
- It can bend in the form of BOX, and therefore available to install depending on the place for using.
- It is a waterproof product that is able to use for a long term.

RODENT CONTROL

P-DG-1101 (NEW NO RUN TRAP)

Product size	Folded 258 × 190(mm) / Unfolded 258 × 383(mm)
Package	2traps/poly bag 10bags/case, 10cases/carton
Carton Size	510 × 280 × 410(mm)
Gross weight	17kg/carton



Characteristics of product (P-DG-1101)

- This is a product that is able to capture insects or pests such as rats, flies etc with the adhesive which is applied. This method is differentiated from the existing method of capturing rats with poisonous substances.
- It includes food favored by rats to raise the capturing effect.
- It is an eco-friendly product harmless to the human body, of which performance is excellent compared to its price.

RODENT CONTROL P-DG-1102 (GLUE TRAP - LARGE)

Product size	222 × 122 × 9(mm)
Package	2traps/box 48boxes/carton
Carton Size	470 × 265 × 278(mm)
Gross weight	11.5kg/carton



RODENT CONTROL P-DG-1109 (GLUE TRAP - GIANT)

Product size	264 × 132 × 9(mm)
Package	2traps/box 48boxes/carton
Carton Size	545 × 282 × 278(mm)
Gross weight	14.5kg/carton



RODENT CONTROL P-DG-1106 (GLUE TRAY - SMALL)

Product size	87 × 131 × 8(mm)
Package	4traps/box, 48boxes/carton

RODENT CONTROL P-DG-1108 (GLUE TRAY - LARGE)

Product size	264 × 132 × 9(mm)
Package	2trays/box, 48boxes/carton



Characteristics of product (P-DG-1109)

- It is an environment-friendly product and contains no noxious materials that are harmful to human bodies.
- Attracting agents such as peanut or vanilla flavors may be added in the manufacturing process.
- You may select a product size according to the capture size and the installation location.
- The adhesive is spread over the plastic tray and the product can be placed inside a wet bathroom or beside a pipe.

RODENT CONTROL P-DG-1107M (MOUSE GLUE BOARD)

Product size 203 × 127mm

Package 4 boards/box

Characteristics of product (P-DG-1107M)

- Pre-scented with peanut or cherry
- Strong adhesive coverage designed to capture rats and mice
- Peel off the release paper and fold into triangle or tunnel shape for use in dusty or tight area
- Can be installed in your multiple catch-unit.
- Bulk packed available for professional pest controller



RODENT CONTROL P-DG-1107R (RAT GLUE BOARD)

Product size 273 × 134mm

Package 4 boards/box

Characteristics of product (P-DG-1107R)

- Pre-scented with peanut or cherry
- Strong adhesive coverage designed to capture rats and mice
- Peel off the release paper and fold into triangle or tunnel shape for use in dusty or tight area
- Can be installed in your multiple catch-unit.
- Bulk packed available for professional pest controller



RODENT CONTROL P-DG-1103 (HOUSE GLUE TRAP)

Product size Glue trap-220 × 122 × 9(mm)
Installed-270 × 125 × 130(mm)

Package 2traps+paper guard/box
30boxes/carton

Carton Size 410 × 410 × 295(mm)

Characteristics of product (P-DG-1103)

- Cover the glue trap with paper guard to increase the life of glue trap in high dusty area



FLYING INSECTS CONTROL P-DG-2001 (WINDOW FLY TRAP)

Product size	205 × 70(mm)
Package	4traps/box 12boxes/display case 12display cases/carton
Carton Size	445 × 390 × 265(mm)
Weight	7kg/carton



Characteristics of product (P-DG-2001)

- It is able to capture flying insects including flies, mosquitoes, moth etc without pesticides.
- With its outstanding adhesiveness and strong durability, the insects cannot be escaped once they land the traps.
- It is an environmentally friendly product without containing poisonous substances which are harmful to the human body.
- The outstanding adhesiveness is maintained even at around the direct rays of sun lights through the window and a fluorescent light.

FLYING INSECTS CONTROL P-DG-2201 (FLY HOTEL)

Product size	146 × 146 X 20(mm)
Package	2traps/box 6boxes/display case



Characteristics of product (P-DG-2201)

- It is able to capture flying insects including flies, mosquitoes, dayflies, moth etc without pesticides which are harmful to the human body.
- It is an environmentally friendly pesticides using fly's behavior.
- With its outstanding adhesiveness and strong durability, the insects cannot be escaped once they attach to the product.
- As the product is simply attached on the frame of the window, the user can identify its strong performance.

FLYING INSECTS CONTROL P-DG-1201 (FLY CATCHER)

Product size	45 × 650(mm)
Package	4traps/box 12boxes/display case 12display case/carton



Characteristics of product (P-DG-1201)

- It can catch the flying insects such as fly, mosquito, and moth without insecticide.
- Noxious insects cannot fly away once attached as of its excellent adhesiveness and long sustainability.
- It is an eco-friendly product that does not contain any ingredient harmful to the human body.
- Flowery patterns are printed on the background for the visual effect, which is convenient to use.

FLYING INSECTS CONTROL P-DG-1203 (FLY RIBBON)

Product size	Ø22×51 (mm)
Package	4 pcs/cards 24 cards/box 12 boxes/carton
Carton Size	480×300×430(mm)
Weight	16 kg/carton

Characteristics of product (P-DG-1203)

- It is easy to use.
- No Baiting, No Poisons, No Vapors, No Mess, strong sticky glue with strong attractant.
- It is environmental protection.
- High quality, best price.
- Direct manufacturers, price real benefit.
- Can be customized to sample, according to the requirements of customers design model.



CATTLE SHED FLY TRAP P-DG-1501 (BIG FLY GLUE TRAP)

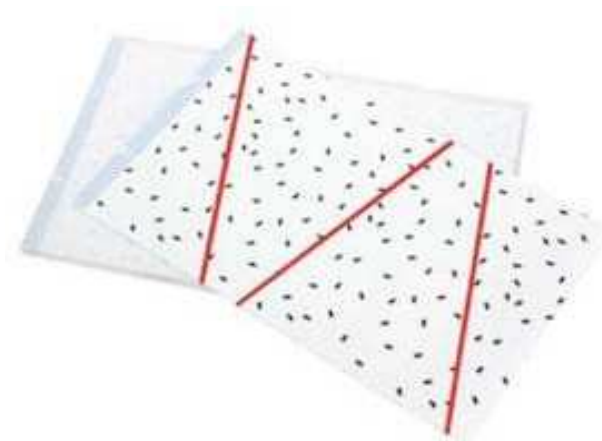
Product size	220 × 650(mm)
Package	10pcs/poly bag, 150pcs/carton
Carton Size	670 × 250 × 140(mm)
Weight	10kg / Carton

CATTLE SHED FLY TRAP P-DG-1505 (BIG SIZED FLY GLUE TRAP)

Product size	400 × 650(mm)
Package	10traps/poly bag, 150pcs/carton
Carton Size	680 × 415 × 130(mm)
Weight	18kg / Carton

Characteristics of product (P-DG-1501 / 1505)

- As a substitute of a pesticide, the product is an environmentally friendly product to capture the insects using the sticky trap.
- This product is a prevention product that can minimize the damages such as a foot- mouth disease that may occur to the livestock.
- With its strong adhesiveness, once the insects are attached, they are hard to escape; its durability is also excellent to use it for a long term.
- The application area is as much wide as to be used in the wide cattle's shed.
- It is designed for easy usage. In particular a calendar type can reduce the troublesome to exchange a trap every time.



ROACH CONTROL P-DG-2301 (ECO ROACH DOWN)

Product size	90 × 183(mm)
Package	5traps/box 60boxes/carton box



ROACH CONTROL P-DG-1301 (NO RUN ROACHTRAP)

Product size	273 × 134mm
Package	4 boards/box



Characteristics of product (P-DG-1301)

- This is a product differentiated from the existing spraying or chemical method of capturing the insects, not making any damage to the human body and the environment by using non-polluting materials.
- The product is able to use easily in the restaurant, supermarket, grocery, processing factory etc as well as home.
- The product can play an excellent role as a monitoring and preventing method of a pest controlling company.
- As a three-piece type, it is easy to handle and to install.

ROACH CONTROL DG-1301S (COCKROACH MONITORING TRAP)

Product size	90 × 183(mm)
Package	1,000traps/carton
Carton Size	385 × 330 × 225(mm)

DG-1301B (COCKROACH MONITORING TRAP)

Product size	90 × 210(mm)
Package	500traps/carton
Carton Size	385 × 300 × 225(mm)

DG-1301L (COCKROACH MONITORING TRAP)

Product size	78 × 87(mm)
Package	500traps/carton
Carton Size	480 × 300 × 225(mm)



GLUE

P-DG-2105K (K-GLUE 1LITER)

Product size	90π × 258mm (Bottle)
Package	1 liter/plastic bottle 1 Bottle/box 16boxes/carton
Carton size	400 × 400 × 280(mm)



GLUE

P-DG-2105T (T-GLUE 135G)

Product size	38π × 180mm (Tube)
Package	135g/AL tube 1tube/box 100boxes/carton
Carton size	525 × 400 × 235(mm)



GLUE

P-DG-2105C (C-GLUE 450G)

Product size	93π × 82mm (Can)
Package	450g/Can 144cans/carton



CRUDE LIQUID OF GLUE TRAP

P-DG-1105 (Adhesive for glue trap manufacturer)

Package	170kg/200 Liter drum 15kg/18 Liter bucket
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Characteristics of product (P-DG-1105)

- It is an environmentally friendly product without containing poisonous substances which are not harmful to the human body.
- It is able to use as a method controlling another bugs including Aphid, moth, Lycorma delicatula or capturing rodents.
- It is able to be covered on the place where the user wants to put.
- With its strong adhesiveness, the subject captured once cannot be escaped; its durability is also outstanding.
- It won't be melted at relatively high temperature.
- It is able to manufacture according to the process of manufacturer of Sticky Trap or the subject to be covered.

Whitefly Trap (Yellow, Blue) P-DG-1401, 1402 (Yellow, Blue)

Product size	220 X 330(mm)
Package	50pcs/pack, 500pcs/carton
Carton Size	480 X 360 X 240(mm)
Weight	18kg/carton

P-DG-1405, 1406 (Yellow, Blue)

Product size	100 X 250(mm)
Package	50pcs/pack, 1,000pcs/carton
Carton Size	460 X 275 X 235(mm)
Weight	15kg/carton



Characteristics of product (P-DG-1401/1402/1405/1406)

- This product is a Sticky Trap for agricultural pest use, being effective to capture insects such as white moth, whitefly, mite, American serpentine leaf miner etc which are harmful to the crops inside a green house.
- Yellow and blue color of this product can make waves favored by the insects. It can raise the capturing chance of success.
- The product is waterproof coated so it is okay to spray agricultural chemicals or water on it.
- The product is outstanding to capture the insects as well as surveillance and sampling of them.
- It is able to manufacture the product with plastic materials as well as paper materials.
- It can minimize using the agricultural chemicals, and is an environmentally friendly product which is not harmful to the human body and the ecosystem.
- This product has high price effect, helping creating high value added in the agricultural crops.

Roll Trap (Yellow, Blue) DG-1410, 1411 (Yellow, Blue)

Product size	30cm X 100m
Package	2 Rolls/carton
Carton Size	315 x 335 x 170(mm)
Weight	8kg/carton

DG-1410, 1411 Roll Trap(Yellow, Blue)

Product size	20cm X 100m
Package	2 Rolls/carton
Carton Size	315 x 235 x 170(mm)
Weight	5kg/carton



Characteristics of product (P-DG-1410/1411/1412/1413)

- It is outstanding for controlling and mass collection of insects that are harmful to the crops inside the vinyl house: they include Trialeurodes vaporariorum, Gennadius, Thripidae, mite, Aphid, serpentine leaf miner month etc)
- It is able to capture the insects that are harmful to fruit tree and trees and shrubs as well as the insects that are parasitic to the house crops.
- Yellow and blue color of this product can make waves favored by the insects. It can raise the capturing change of success.
- As the liquid adhesive is applied to the both sides of the product, it is outstanding to capture the insects.
- As the product is manufactured with PE film, it is okay to spray agricultural chemicals or water.
- It is available for customized manufacturing according to width and length that the customers want.
- The product can reduce the agricultural chemicals as much as possible and is an environmentally friendly product which is not harmful to the human body and the ecosystem.
- An installing cost per unit area is very low.

FLYING INSECT TRAP P-BH (BLACK HOLE)

Size	Ø200 × 300 (mm)
Consumption	30W
Effective Area	99 ~ 150m ²
Electricity	220V, 60Hz
BL Lamps	BL4W × 2ea
Material	ABS



Ideal for indoor as well as outdoor applications the Black hole works by luring the flying insects to the trap via UV light & CO₂ gas. Once the insects are in catching distance, an electric fan sucks the insects into a mesh cage which contains a glue board. This UV system is also less noisy and cleaner than conventional ultraviolet zappers. Our trap is ideal for restaurants, patio areas and greenhouses.

Product Features (P-BH)

- Black hole can decoy and capture mosquitoes both in a dark outdoors and an indoors in by a tripartite system
- Heat and near ultraviolet rays produced from the fluorescent lamps installed inside, and carbon produced when near ultraviolet rays are radiated onto titanium dioxide.
- Mosquitoes remain captive with the steel net and the blowing fan

FLYING INSECT TRAP P-SF-P (SKY-F PLUS)

Size	500 × 230 × 130 (mm)
Consumption	48W
Effective Area	50m ²
Electricity	220V 60Hz
BL Lamps	24W × 2 ea
Material	ABS



Product Features (P-SF-P)

- No noise, No smell, Trapping Environment-Friendly.
- Designed not to see the insects from outside.
- No broken insects' pieces and satisfied HACCP and FDA.
- Hygienically trapping flying insects.
- Preventing infectious disease from Flying Insects.
- Effectively luring and eliminating mosquitoes and flies using Tio2 photocatalysis.
- Tio2 photocatalysis cause smell amount of CO2 permanently and is luring and eliminating mosquitoes and flies continuously.

FLYING INSECT TRAP P-BQ (BLACK QUITO)

Size	230 × 260 (mm)
Consumption	13 W
Effective Area	50m ²
Electricity	220V 60Hz
BL Lamps	BLB 11W
Material	ABS



Product Features (P-BQ)

- Using the light frequency and materials that the mosquitoes like it. And it attracts the pest
- Once it has been attracted by the trap then the fan will suck the pest and then it will stick to the glue paper
- You cannot see the trapped pest and it is quite simple design. So it can fit to any circumstances.
- To clean the air, we are using TiO² (Titanium deoxide) and it kills bacterias.
- The BLACK QUITO can be used as Mood light.

				
Model	P-BH (BLACK HOLE)	P-ACP (AIR CLEAN PLUS)	P-SF-P (SKY-F PLUS)	P-BQ (BLACK QUITO)
BL Lamp	BL4W × 2ea	BL4W × 2ea	24W × 2 ea	BLB 11W
Outdoor / Indoor Use	Yes / Yes	No / Yes	No / Yes	No / Yes
Power Supply	220V, 60Hz	DC 12V (220V, 60Hz)	220V, 60Hz	220V, 60Hz
Consumption	30W	6.2W	48W	13 W
Dimension	Ø200×300 (mm)	200 × 300 (mm)	500×230×130 (mm)	230 × 260 (mm)
Weight	1.5 kg	1.5 kg	1.4 kg	1.0 kg
Material	ABS	ABS	ABS	ABS
Effective Area	99 ~ 150m ²	99m ²	50m ²	50m ²
Fan Type	1,700 RPM	1,700 RPM	N/M	1,400RPM
Features	- Ultra violet and CO² lure - Low noise fan motor - Light weight - Easy to set up	- Ultra violet and CO² lure - Low noise fan motor - Light weight - Easy to set up	- Ultra violet and CO² lure - Light weight - Easy to set up	- Ultra violet and CO² lure - Low noise fan motor - Light weight - Easy to set up

* The shape & specification will be changed without notice.

SOLAR INSECT TRAP

P-SOLAR-T (SOLAR TRAP)

Solar panel	18V / 25W
Auto control	DC 12V
Battery	DC12V, 4.5A ×rechargeable
Fan	1,200 ~ 1,500 RPM
Lamp	LED : DC12V / 3W
Charge time	4 Hours
Running time	10 Hours
Weight	16.5 kg
Dimensions	Body : 545×410×390 (mm) Net length : 550 (mm)



Product Features (P-SOLAR-T)

The solar trap is ideal for application where there is no access to electricity. Powered by a super-efficient 18V solar panel, the trap charges during the day and comes on automatically at night. As with our Eco R-2, this trap works by luring the insects via an Ultra Violet lamp. Once the insects are in catching distance, an electric fan sucks the insects into a mesh net. The solar trap is easy to install and each of the legs are fully adjustable for installing in uneven or step terrain. Solar trap is ideal for golf courses, crops, parks, livestock housing, orchards, near lakes and greenhouses. This trap is efficient at catching Fruit flies, Mayfly, Mosquitoes, Pyralidae, Noctuidae (Moth) and Chironomidae.

FLYING INSECT TRAP

P-ER-2 (ECO R-2)

Dimensions	550 X 400 X 100 (mm)
Auto control	AC220V/60Hz
Consumption	50W
LED Lamps	LED : DC 12V / 3W



Product Features (P-ER-2)

The ECO R-2 smart trap has been specially designed to run on 12V reducing the trap's electrical consumption at just 20W per hour. This super-efficient trap also comes with an optical sensor, switching the trap on automatically at night. Thanks to its 12V motor, this trap runs in near-silent operation ideal for livestock farms, cattle sheds, greenhouses and outdoor restaurants.

		
Model	P-SOLAR-T (SOLAR TRAP)	P-ER-2 (ECO R-2)
BL Lamp	3W×1ea	3W×1ea
Outdoor / Indoor Use	Yes / No	No / Yes
Power Supply	18V, 225W (Solar panel)	100V ~ 240V
Consumption	5 W	< 20W/hr
Dimension	545×410×390 (mm) Net length : 550 (mm)	Ø300×320 (mm) Net length : 550 (mm)
Weight	16.5 kg	2.3 kg
Material	Steel	ABS
Effective Area	9,900m ³	100m ² ~ 150m ²
Fan Type	1,200 ~ 1,500 RPM	1,200 ~ 1,500 RPM
Features	- Ultra violet lamp - Low noise fan motor - solar powered - Easy to set up	- Ultra violet lamp - Low noise fan motor - Easy to set up

INDOOR INSECT TRAP P-MTRPLUS (M TRAP PLUS)

Dimensions	200 X 70 X 200(mm)
Auto control	220V 60Hz
Consumption	15W
Material	ABS
Components	Body. Glue paper*5, lamp*1

Indoor insect trap **M-TRAP PLUS**



Product Features (P-MTRPLUS)

- No noise, No smell, Trapping Environment-Friendly.
- Designed not to see the insects from outside.
- No broken insects' pieces and satisfied HACCP and FDA.
- Hygienical trapping flying insects.
- Preventing infectious disease from Flying Insects.
- Effectively luring and eliminating mosquitoes and flies
- Wavelength liked by insects combined with naturally attracting agent, patented in Korea, applied on glue paper work together to trap insects.
- Lamp's light faces upward and not forward Its simple design fits any place.
- No sound or smell, No spark or smoke, No chemical M-TRAP just traps insects without leaving dead fragments.

INSECT TRAP P-ZG (ZAPPER-GOLD)

Dimensions	230 X 780 (mm)
Auto control	AC220V/60Hz
Consumption	100W

SKYONE



Product Features (P-ZG)

- **BLB and LED Special Lamps**
Uses special UV lamps and LED-reflecting plates that spread light waves and attract flying insects.
- **Strong Suction with Blade cutters**
Attracted insects are sucked by the rotating fans and ground by sharp cutters.
It has a convenient discharge system that makes it easy to clean.
- **Equipped with Automatic Timer, circuit breaker & waterproof motor**
Can be set to be operated in particular seasons. A Timer that can be set to operate at a specific time duration.
(ex. 30 minutes activate and 10 minutes break).
it has water proof motor. There is no danger of short circuit.

INSECT TRAP P-SKY-M (SKY-M)

Dimensions	360 X 230 (mm)
Auto control	AC220V/60Hz
Consumption	30W



Product Features (P-SKY-M)

- LED lamp with UV ray is more effective than other bug lamps, lasting more than 3 years of lifespan.
 - Fit to use in a spacious area such as grain storage, animal shed, and fruit farms.
 - No spark or smoke, No smell, No chemical. M-TRAP just traps insects without leaving dead fragments
 - SKY-M LED (Upgraded type)
- : Features UV LED lamp emitting a wavelength which has been proven to be highly attractive to insects
Lasts up to 30,000 hours, 6 times longer than other insect trap lamps.
- SKY-M BLB (General type)
- Features BLB lamp which insects can't resist approaching the light source and get immediately lured
Lasts up to 5,000~6,000 hours

OUTDOOR FLYING INSECT TRAP P-SKY-OB (SKY - ONE BLACK)

Dimensions	400 X 240 (mm)
Auto control	220V 60Hz
Consumption	70W



Product Features (P-SKY-OB)

- **SPECIAL LAMPS**
: Uses 2 special attracting lamps to exterminate insects thoroughly.
- **Economical**
: Electric bills would be less than \$3 per month when the product is used 12 hours a day.
- **Low Maintenance**
: Cleaning can be done once a month
- **Waterproof Motor**
: Uses specialized waterproof motor that can be used outdoors.

	Indoor insect trap M-TRAP PLUS 			
Model	P-MTRPLUS (M TRAP PLUS)	P-SKY-M (SKY-M)	P-SKY-OB (SKY-ONE BLACK)	P-ZG (ZAPPER-GOLD)
BL Lamp	15W×1ea	20W×1ea LED LAMP ×1ea	20W×2ea	20W×1ea
Outdoor / Indoor Use	No / Yes	Yes / Yes	Yes / No	Yes / No
Power Supply	220V	220V	220V	220V
Consumption	15W	30W	70W	100W
Dimension	200×70×200 (mm)	240×350 (mm)	400×240 (mm)	230×780 (mm)
Weight	600g	1.5kg	4.5kg	8 kg
Material	ABS	ABS	TIN	STAINLESS
Effective Area	40m ² ~50m ²	-	70m ² ~ 100m ²	400m ² ~ 500m ²
Features	- No noise, No smell - No broken insects' pieces -effectively luring and eliminating mosquitoes and flies.	-Use in spacious area (grain storage, animal shed etc.) - No spark or No smell	- Special lamps - Less than \$3 per month (12 hours a day) - Low maintenance	- Special lamps - Strong suction with Blade cutters -Equipped with Automatic Timer, circuit breaker & waterproof motor

* The shape & specification will be changed without notice.

PEST CONTROL EQUIPMENT
P-BG (GEL BAIT GUN)



Capacity	35 grams
Materials	PP / Japanese Steel
Weight	450 grams
Dimensions	190×140×20 (mm)

Product Features (P-BG)

The bait gun is a durable and easy to use precision applicator compatible with most standard 35 gram gel bait cartridges used in pest control applications. Simply place the cartridge from top bait product start applying immediately to eradicate your pest problem.

PEST CONTROL EQUIPMENT
P-BG-S (GEL BAIT GUN SET)

Capacity	70 grams
Materials	PP / Japanese Steel
Weight	450 grams
Dimensions	190×140×20 (mm)
Contents	Applicator / 3×Cartridges Squeeze tool / 3×Tips

Product Features (P-BG-S)

The bait gun set is a durable and easy to use precision applicator compatible with most standard 70 gram gel bait cartridges used in pest control applications. This bait gun set is designed for people who are looking for a larger capacity applicator. This set comes an applicator, extra capacity cartridges, holder, squeeze tool and spare tips.



MOSQUITOES REPELLENT P-BSL (BUGSLOCK)

Size	250 × 18(mm)
Net Weight	3 grams
Ingredients	100% natural essential oil including lavender. Etc (30%) Inert(70%)
Color	Blue, Yellow, Pink, Orange, Green, Ivory



Product Features (P-BSL)

“Bugslock” is a mosquito controlling product to repel the mosquitoes with a 100% natural aroma. It is a creative and band shaped product, which prevents mosquitoes from approaching by wearing it on the wrist or ankle, where the item emits an aroma that the insect can’t stand. As it is small in design and easy to carry, it is usable at anytime, thus it is considered a very convenient product. Plus, it is a safe product, which can be used even by infants, in other words, all age groups can use it because it is made of non-toxic substances. It is an elegant product with its various colors and refined designs, hence, it can be used as a form of accessory for women and also a fun children’s wear item.

INSECT MONITOR P-RT (ROACH TRAP)

Pest Type	Cockroach
Dimensions	350×130×100(mm)
Materials	PP + ABS
Weight	255g



Product Features (P-RT)

- Verify the object to open the case and take on both sides is possible.
- Internal use of semi-sticky, but if you can change is possible.
- Put double-sided tape on the bottom of the case can be installed in the wall.
- There is a ring in a case falling down or falling but the object will not be disturbed.

MOUSE BAIT BOX P-MT (MOUSE TRAP)

Pest Type	Mouse
Dimensions	350×130×100(mm)
Materials	PP + ABS
Weight	255g



Product Features (P-MT)

- Rat poison, sticky, both are available.
- Verify the object to the top of the transparent window is convenient.
- Assembly type of storage when not in use and convenient to carry.
- Both bending to cover the contents will get wet.
- Sticker affixed to the population and drug use measures to verify the date convenient.
- On the bottom of the screw is fixed in the strong wind.

						
Model	P-BG (GEL BAIT GUN)	P-BG-S (GEL BAIT GUN SET)	P-MB (MOSBALL)	P-BSL (BUGSLOCK)	P-RT (ROACH TRAP)	P-MT (MOUSE TRAP)
Materials	PP / Japanese Steel	PP / Japanese Steel	Silicon	100% natural essential oil Including lavender. Etc(30%) inert(70%)	PP + ABS	PP + ABS
Weight	150 g	687 g	18 g	-	255 g	255 g
Dimensions	190x140x20 (mm)	-	Adults: 19cm Children: 17cm	-	350x130x100 (mm)	350x130x100 (mm)
Contents	-	Applicator 3x Cartridges Squeeze tool 3x Tips	-	Color : Blue, Yellow Pink, Orange, Green, Ivory	-	-

* The shape & specification will be changed without notice.

BIRD STRIKE PREVENTION

BIRD CONTROLL UNIT BCU-19K



- Production according to the order(Vehicle, color, device type, etc.)
- It is possible to assemble and produce local vehicles(Pick up trucks).



Wireless communication method : Industrial Scientific Medical band
(ex) 2.4 GHz / Bluetooth, WiFi, LoRa(902~928Mhz), etc.

Device : Green Laser, LPG Cannon, CCTV & monitor, Jammer, Warning light,
Long distance speaker, Tablet Pc, binoculars, handheld Laser, etc.

BIRD STRIKE PREVENTION

LPG CANNON Airport 808 / 1803A

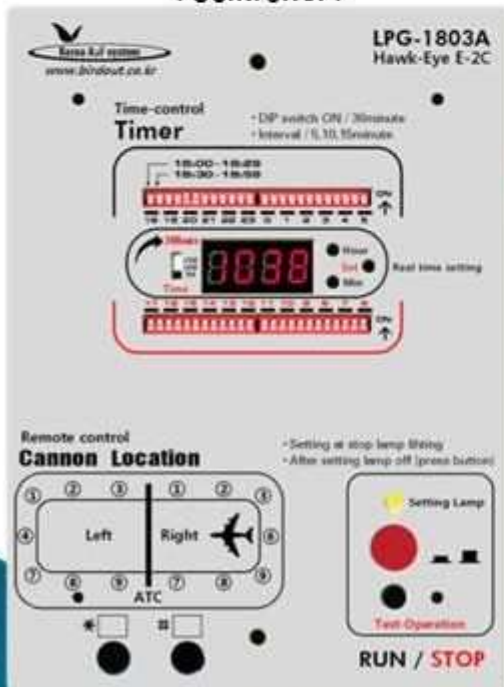


LPG cannon **Airport 808** system is designed and developed for Prevention of Bird Strike on the Airport field. This unit can be equipped and operated by Bird Control Unit(Car) also can be held by personal. It can be operated by Remote Control device using Tablet PC up to 15kilometers boundary and 100units of Cannon.

This System can make records of functional Errors and Good operations of device and also can set up operation time and intervals as per environment.

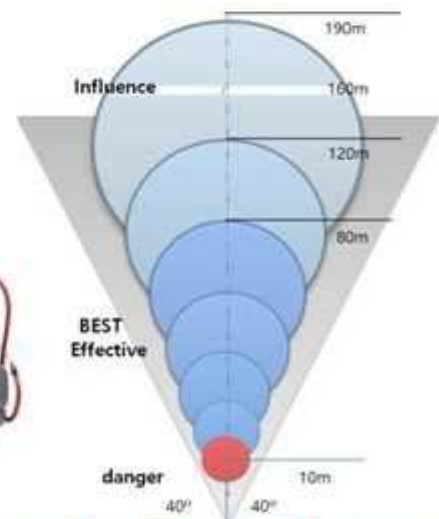
LPG cannon 1803A is normally operated by Single unit alone and can be set up Starting time ,Stop time operation intervals freely based on the environment.

< Controller >



LPG Cannon **1803A** Set has good performance and no breakdown, so widely used in Agriculture and Fishing industry

★Easy operation set



LPG Cannon 1803A Bird repelling effect by distance

BIRD STRIKE PREVENTION

Solar Powered Bio-Acoustic Bird Repellent **BAR-153**



Using Digital Recording of Natural Enemy's Sound and Warning sound can be emitted by Clear sound speakers.

Painful Sound and warning Sound can be emitted by High output Amplifier using Weather Resistant Speakers. So, Birds got fears and will leave the those areas.

Big Shape /Cone type speakers can emit more clear sound to more further.

Each Speakers and Motion Sensors are connected with 5meters cable .



Used for daytime birds

- Solar panel : 10W (35X28cm)
- Battery : 12V-12ah
- Built-in Solar- battery controller
- Automatic operation by optical sensor
- Continuous 4-day rainy weather
- Effective area : $65 \times 65\text{m} = 4,225\text{m}^2$
- Sound frequency : 2,000~10,000Hz
- Sound Pressure: 110~120dB at 1 meter
- 8 kinds of sounds are randomly broadcast



Used for nighttime wildlife

Each Speakers and Motion Sensors are connected with 5meters cable.

Have Digital Sound to repel Deer, Wild Pig, Cat
The Motion Sensor is very effective to operate when the Wild animals approach.

- Sensing Distance : 7~8m
- Sensing angle : 130degree



Daegu International Airport



Chopper base

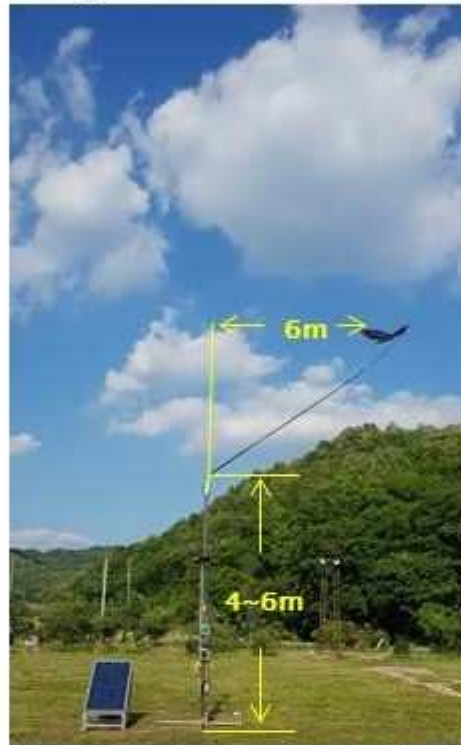


BIRD STRIKE PREVENTION

Rotating Bird repellent BRR-220 / BRR-SOLAR



Hand winch



Installation view (May 2019, Korea)



Acoustic Controller



Main controller
(wind speed, rain, Motors)

- Eagle Mobile, which rotates together with the acoustic is a very threatening to the birds
- AC110V ~ 220V power supply can be used, but can be installed as a solar system
- Automatic operation by optical sensor and wind speed sensor
- Effective area : 0.9~1,1ha * Motor speed : 16~18 RPM

Solar Powered Carrier Type BRR-12C



- Automatic operation by optical sensor
- Solar panel : 120W - Battery : 12V-120ah
- Built in solar-battery controller - Motor speed : 16~18 RPM

BIRD STRIKE PREVENTION

Smart Automatic Laser BAL-300



- Can be controlled from a horizontal 10~350degrees, vertical 45~60degrees.
- Set 100points to attack the every correct points.
- It has an emergency stop switch and can be remote controlled by tablet PC.

Input : AC 24V / DC24V
Pan speed : 0.01~60°/sec
Tilt speed : 0.01~30°/sec
Communication : RS-485
Preset : Up to 100
Waterproof : IP 66
Operation Temperature : -35°C~60°C



BIRD STRIKE PREVENTION

How to repellent the raptors

Wide-eyed glare scares raptors



□ Wide-Eye pattern that raptors hate

– Source : French Institute of Science and Technology, Airbus Group, Rennes 1 University Joint research

- PLOS ONE | <https://doi.org/10.1371/journal.pone.0204802> October 11, 2018 15 / 15

 **YouTube** <https://www.youtube.com/watch?v=T8HApzOm5fQ>
– Practical product : Korea A&F system company bird strike institute (2018.11~2019.05)

Abstract

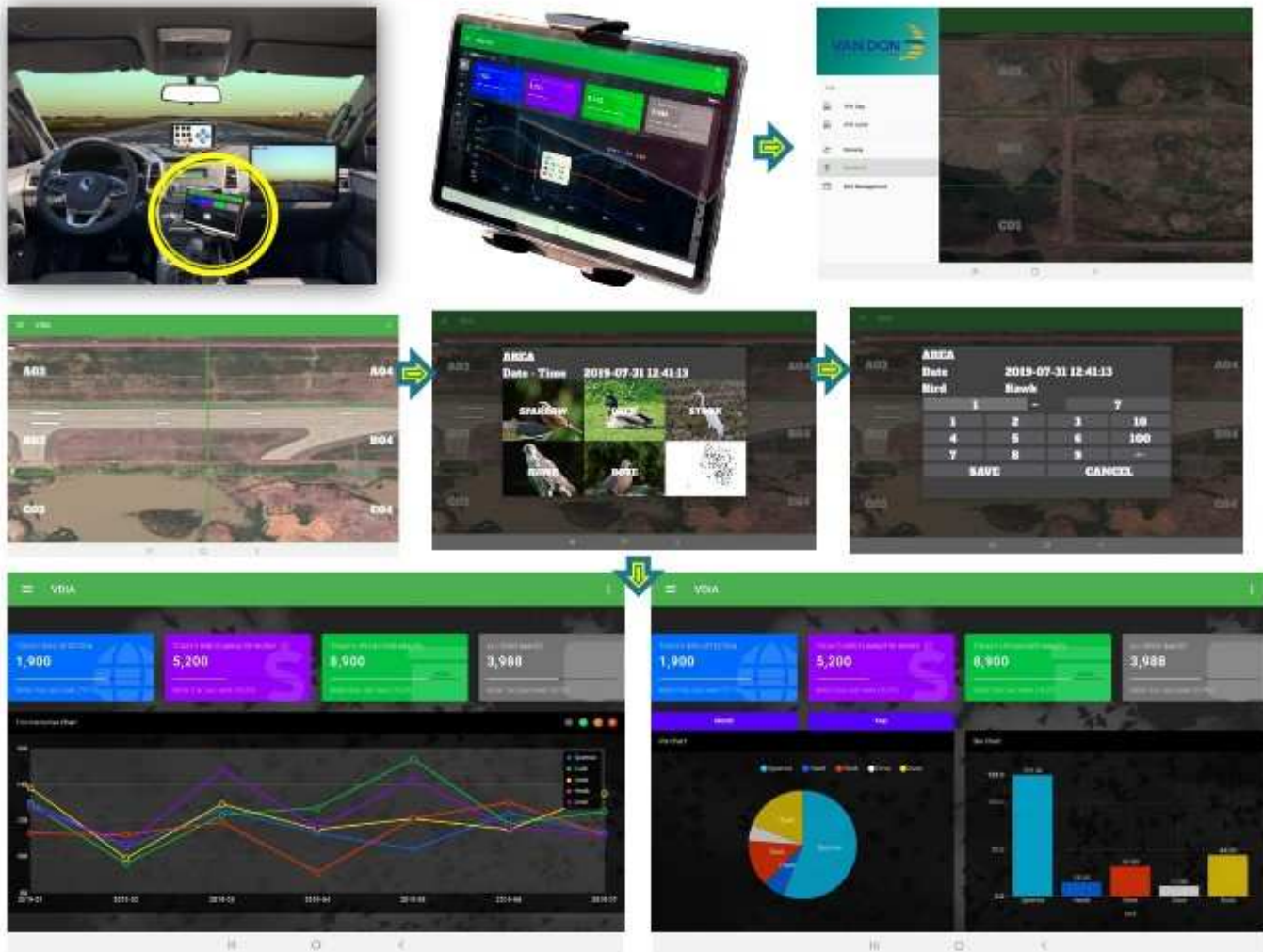
Raptors are one of the most important causes of fatalities due to their collisions with aircrafts as well as being the main victims of collisions with constructions. They are difficult to deter because they are not influenced by other airspace users or ground predators

Because vision is the primary sensory mode of many diurnal raptors, we evaluated the reactions of captive raptors to a “superstimulus” (a “paradoxical effect whereby animals show greater responsiveness to an exaggerated stimulus than to the natural stimulus”) that combined an “eye shape” stimulus (as many species have an aversion for this type of stimulus) and a looming movement (LE). This looming stimulus mimics an impending collision and induces avoidance in a wide range of species. In captivity, raptors showed a clear aversion for this LE stimulus. We then tested it in a real life setting: at an airport where raptors are abundant. This study is the first to show the efficiency of a visual non-invasive repellent system developed on the basis of both captive and field studies.

This system deterred birds of prey and corvids through aversion, and did not induce habituation. These findings suggest applications for human security as well as bird conservation, and further research on avian visual perception and sensitivity to signals.

Bird Strike Integrated Management System Software

Bird Management – Version 5



For the appearance of Birds inside of Airport, AI can analyze name, location, quantities and prepare the report of the results of operation to give ideas of solution for Bird strike.

- *The pictures that are taken by Camera can be storage with relevant data.
- *At the field, can analyze the past data and prepare for the future dangers.
- *Bird management Version 5 can remote control those installed Bird Repellent equipment's.
- *Synthetically related program can support all of the Bird strike those are the Appearance of Birds, Respond, those equipment remote control records and analyze
- *Accumulated all of the database about Bird strike management and response can be applied in favor of court in the event of an accident.
- * (option) It is also possible to register the Birds Guide and support native languages.



Wave Length	532 ± 1nm Green Laser	Focusing : Yes
Input Power	DC12V~16V	Battery Indicator : YES
Cooling Method	Air Fan Cooling	
Working Temperature	-20 to 50°C	
Effective Distance	1.8 km	
Weight	580g	Including 18350 batteries
4ea. of 18350 battery	65 minutes of continuous use	
4ea. of 18650 battery	300 minutes of continuous use	



BLUEWAVE

EXPERTS IN HUMAN LIVING CARE TECHNOLOGY



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