CONTACTLESS SOLUTION FOR COVID-19

Diagnostics
Disinfection
Prevention

Kiran Smart
www.kiransmart.com

POST PANDEMIC PREPARATION
DISINFECTION
UV - ROBOTS

BRAVO

SAVO

LAVENDER

LEO RAY
Automated Disinfection UV Robot Solution

Kills 99.99% of viruses, bacteria and germs. MRSA* Disinfection 25sqm in 8 mins
*vertical surfaces

Increases Protection Against Infection

- Rapid transmission of viruses during pandemics like COVID-19 has become a critical public health crisis not just for the healthcare sector but major public premises like commercial buildings, public transport, transport terminal, etc. Deploying UV Robots to disinfect surfaces by high concentration UV-C radiation offers tremendous risk reduction of exposure to virus infections and prevents viral transmissions.

Easy to use and operate, no secondary pollution, more suitable for open areas

- No secondary pollution, no need to add disinfectant;
- Easy replacement and maintenance of UVC lamps;
- Total dosage = power intensity * time: the greater the lamp irradiation, the greater the power, the higher the disinfection efficiency
- Need to be used in unmanned scenes;
- Disinfection efficiency decreases in shadowed areas where the UVC light is blocked;
- The disinfection effect decreases with distance to the surface of objects/environment
- UVC can irritate skin and eyes, and therefore the robot is for use in unoccupied rooms.
- Should not be used in areas/rooms with flammable and explosive items
DISINFECTION SPRAY - ROBOTS

TANKER

DROVE

BONBON

RUNNER

SMARTO

SPABOT

MOVER
Automated Disinfection Spray Robot Solution
Omni-bearing Motion Disinfection, Protecting Environmental Security Real Time

Main Functions

The robot can automatically navigate, automatically avoid obstacles, automatically broadcast, automatically charge, and 360 degree disinfection. It can work long hours, it can keep people away from viruses and bacteria, it can make people's living environment safer. It can reduce the spread of viruses, reduce people's work, reduce costs of laborer and management.

Robots Common Features

• High-power Ultrasonic Atomization, No Liquid Residue. Spécial Air Ourlets Design, Disinfectant Spread Quickly
• Auto Motion Disinfection, Covering the Setting Area Efficiently. Full-automatic Disinfection, Implementing Tasks at Fixed Time and Location
• Low Power Return, Auto Recharge. Take Elevator Independently, Multi-floor Disinfection
• Customizing the Disinfection Location, Route and Time
• Powerful sterilization, voice patrol for early warning, new intelligent disinfection planning
Intelligent Cleaning Robot Solution
The World’s First Cleaning Robots as a Service Concept

Robots as a Service

We believe that cleaning robots work best in teams, hence we have pioneered the world’s first “Robots-as-a-Service” (RaaS) concept.

RaaS is a unique rental-based business model, in which customers are able to rapidly deploy teams of robots at an affordable rental rate compared to the astronomical purchase price of other cleaning robots.

Core Advantages

It can detect the environment and complete cleaning tasks autonomously in an unattended manner; can avoid both static and dynamic obstacles autonomously in real time; can check the cleaning productivity, report machine status, feedback and task details autonomously; can go to the water changing and draining places as preset automatically, and go back to the charging place at low battery level.

The maximum cleaning efficiency is 3,000 m2/h, which is much higher than the manual cleaning efficiency. It features long-time consistent working capability and does not need to take a break or pause halfway.
Temperature Measuring & Disinfection Face Recognition All-in-one Tablet

Abnormal intelligence warning
Non-contact is safer
Recognizable by wearing a mask

Body temperature is normal
Abnormal body temperature

Identify successfully
Verified
Intelligent Temperature Measuring Kiosk
Cutting-edge infrared thermal imaging technology
It is implanted with a thermal imaging camera, which can measure the user's temperature through infrared induction, which is convenient and quick.

8 “HD touch screen
It can simultaneously present the human portrait, the human body thermal imaging image and the temperature measurement data, the detection result is more intuitive.

Accurate temperature detection
Temperature monitoring error no more than ±0.3°C, accurate prevention and control of the epidemic, to avoid the risk of infection.

Millisecound response speed
1: N comparison time / person, face verification accuracy, efficient epidemic prevention.

Multimode operation
Even when not connected to the Internet, the "face recognition & temperature measuring” function still works as usual and can be used quickly.

Simple self-installation
Products do not need professional installation, power can run; Desktop, wall hanging, bracket multiple modes, flexible placement.
Smart & Intelligent Helmet

RoBo-Cop Helmet

Check-Points

Airport/Shopping Malls

Hospital

Office/Ministry Building
Product Operating Mode

- Single-person temperature measurement mode
- Large-crowd temperature measurement mode
- QR code mode
- QR code & température maturément mode
- License plate recognition mode
- License plate recognition & temperature measurement mode
- Thermographic diagnostic Imaging mode
- Night-vision /Facility inspection mode
- Face recognition mode

Product Functions

- Smart Helmet for Unaware and Contactless Temperature Measurement
- Efficient Helmet for Temperature Recording
- Powerful Helmet for Vehicle Screening
- Intelligent Helmet for Verification
- Smart Helmet with Thermal Imaging

Product Feature

- Advance stab-proof material with energy-absorbing design and ultimate weight reduction
- High standard array optical waveguide AR technology, 24/7 new visual experience
- High-accuracy quick unaware and contactless temperature measurement
- Advance material technology with strong signal, low power consumption and ultra-low radiation Specific Absorption Rate
- Avoid the formation of cantilever structure in working state, so as to protect the neck to the greatest extent and improve wearing comfort
Thermo Control Station

Station that provides contactless recognition of initial COVID-19 symptoms
A person's temperature is commonly measured by another person with a thermometer.

- Time consuming
- Limited human resources
- Exposure to viruses
- Higher chance of spreading the disease
- Human factor
- High expenses

**Thermo Reader**

1. Non-contact thermometer and camera
2. Built-in dynamics for audio assistance
3. LCD-display
4. Stand base
5. Thermo Reader stand

**Device capabilities**

- Temperature measurement
- Remote connection to the device
- Face detection
- Staff notification
- Instructions on how to measure temperature via speech synthesis or visual aids

**Process of work**

1. The visitor approaches the terminal
2. Audio signals ensure an optimal position of 5-10 cm between the user and the device. **The user does not need to touch the device to measure temperature!**
3. Within 5 seconds, the result is presented on the screen:
   - **Numbers on green background** temperature is normal
   - **Numbers on red background** temperature is not normal
4. The measurement results are sent to the database incl. the face of the user
5. If the visitor’s temperature is over the norm a notification is sent to the operator including a photo and the temperature of the visitor
Multifunctional mobile robot for outdoor disinfection

Disinfection of streets and public places

Outdoor disinfection is an essential part of stopping the spread of coronavirus.
**Scorpion Functionalities**

- Remote control by the operator
- Spray disinfectant
- Autonomous travel using ultrasonic sensors and a GPS system
- Video surveillance
- Travel across obstacles — stairs, curbs, etc.

**Scorpion equipment for disinfection**

1. Mobile platform
2. Disinfectant storage container
3. Spraying device
4. Video camera
5. Built-in GPS system for navigation

*Pictures shown are for illustration purposes only, the final product image may vary.

**User interface**
DELIVERY SERVICE
ROBOTS

WAITRESS

DELIDISH

DELIFUD

CUBE

BOX

DELIRUN
Advantages

- **Simple and effective product design**
  Practical and minimal fusion model and optimized structural design for comfortable experience and safe use

- **Industry-leading patented invention**
  Integrating multiple core patents and Inventions with independent intellectual property rights

- **Recommended by the Red Dot: Grand Prix**
  Recommended by international authoritative awards such as the Red Dot Design Award – Best of the Best

- **Pudu Cloud Service**
  Visual business management, automated operation and maintenance, scenario data collection, and cloud intelligent service

- **User experience–oriented**
  Customized voice, special delivery mode

- **Strong expandability**
  Bill recognition, APP calling, catering system fully connected, faster to use

Key Features

- Precise positioning of parking
- Multiple standby point selection
- Flexible table number entry update
- Mobile APP calling
- Pager calling
- VIP room notification
- Auto charging
- Table Identification

Functions

- **Industry-leading SLAM technology**
  Independently developed PUDU SLAM system for easily control of any complex scenario

- **Four core features as escort**
  Centimeter-level real-time positioning, high-precision map construction, optimal path planning, instantaneous intelligent obstacle avoidance

- **Distributed scheduler system**
  With the independently developed distributed PUDU SCHEDULER system, multi-robot collaboration capability is fully upgraded

- **Guaranteed with super long battery life**
  Fully charged in 4 hours, 7 x 24 hours uninterrupted operation (power exchangeable)

- **Six delivery modes**
  Food delivery mode, B-day mode, special mode, direct delivery mode, cruise mode, and tableware collection mode

- **Strong carrying capacity**
  The tray can be increased in adjustable height and can be replaced with enclosed cabin
SMART PORTABLE SANITIZER
FOR OFFICE – HOME – CARS – RECEPTION

Disinfect Your Hand While At Work
SMART CUSTOMER PAGER/BUZZER

Helps in Maintaining SOCIAL DISTANCE

Be Widely Used:

Handy Mini Useful

Wireless Pager
Just For You

Not waiting online
Wireless Calling System
Intelligent Smart Humidifier Robot

For Home / Spa / Office / Parlor / Saloon

BABY ROBOT
Moving from one Room to Another Room to make sure every room Humidification is done, however, traditional humidifier just stay in one place. It is not only air humidifier, it will be a sterilizer if you put disinfectant in water tank.

**Intelligent & Smart Robot that does air spray to disinfect for Home, Office, School**

**Features**

- Water Level Detection
- Ultrasonic Obstacle Detection
- Three Mist Levels
- Stationary Humidification
- Weekly Schedule For Mobile Humidification
- Schedule any working time that you want
- Auto Recharging when it was lower power

Anti-falling system prevents the robot falling from tables and stairs
Smart Digital Notice Display

Product Details

- 32 Inch LCD Display Screen
- Portable
- Foldable
- USB Port to upload the content
- Android Bases IOS

Usage & Applications

Can be used to display all the importance notice during COVID-19.
Any time pictures can be changed and also video can be played.
Can be placed in the entrance of shop, restaurant, hotel, hospital, clinic, banks and many more.
SMART HAND SANITIZER SIGNAGE

Protect of your employees, staff and customers with our Unique Smart Digital Hand Sanitizer Display

- Auto dispense gel, foam or other liquid for washing hand
- Sanitizer is easy to be refilled tablet embedded
- Options available:
  - 21.5" Interactive Android tablet embedded
  - 21.5" Standalone LCD screen embedded
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