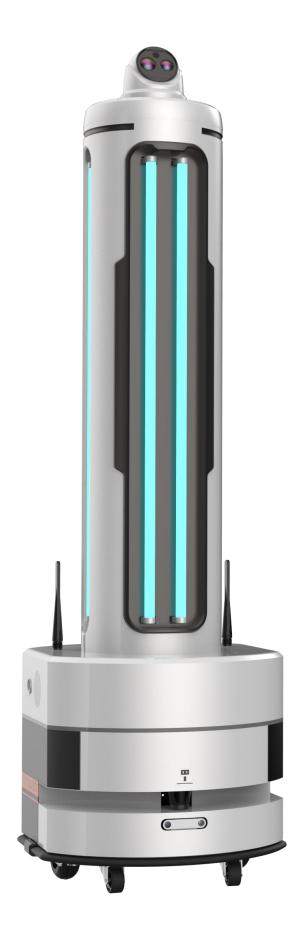


Catalogue

| | Product Brief | | |
|-------|------------------------------------|-------------|---------------------------|
| | Functions | Parameters | Software |
| Video | Process an | d Scenario | Accessories parameters |
| | Standards and certifications | Precautions | Contact |

Product Brief



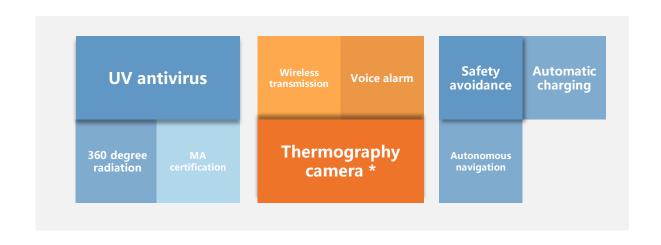




- Ultraviolet indoor mobile multi-point disinfection
- Configure infrared body temperature monitoring, body temperature detection during the day, and disinfection at night
- Industry's largest power efficiency killing, cumulative UV intensity up to 270µW / CM2
- Laser SLAM algorithm completes the construction and positioning of the global environment map
- Fully mature cognitive and positioning navigation capabilities
- Ultraviolet killing robot is suitable for shopping malls, stations, offices, production sites, etc.
- Robot conforms to [National Standard] GBT 30030-2013 Automatic Guided Vehicle (AGV)
- UV disinfection conforms to [National Standard] GB 19258-2012 UV germicidal lamp

Functions





Parameters

| Category | ltem | Parameter |
|--------------------------|--|---|
| Material of body | Material of body | Cold rolled steel + plastic |
| Size | Size | 580x500x1200mm |
| Weight | Weight (including battery) | 50KG |
| J | Ambient temperature | 5 to 40 degrees |
| | Ambient humidity | Relative humidity 5 to 95% (no condensation) |
| | Running environment | Indoor use only, no excessive dust, no corrosive gas |
| Environmental conditions | Protection level | IP20 |
| | Cleanliness grade | Class100 |
| | Antiskid coefficient of ground | ≥0.5 |
| | Ground requirement | Horizontal ground for concrete pouring (without water, oil or dust) |
| | Minimum flatness of ground | Ff25 (* ACI 117 standard) |
| | Vertical obstacle surmounting ability | 10mm |
| | Ability to cross gullies | ±20mm |
| Ground conditions | Climbing ability | 5° |
| | Path selection | Secure scanning lidar based on environment mapping independent path selection |
| Navigation | Navigation system | Provide large-scale lidar mapping, lidar positioning, lidar path planning, lidar navigation functions, including obstacle avoidance and recovery control. |
| | Rendering of environmental map | Scanning with Slam (positioning and mapping at the same time) |
| | Navigation mode | Laser landmark navigation |
| Running speed | Maximum speed | 1 m / S (theoretical maximum speed) |
| 2 2 1 | Maximum rotational speed | 180°/s |
| Mobility performance | Stopping precision Texture of material | Position accuracy: ± 1 cm, angle accuracy: ± 2 ° Polyurethane |
| Driving wheel | Size | Diameter 150 * 35mm |
| Battery | Battery | Industrial grade lithium iron phosphate battery, high stability, metal shell safety protection, earthquake resistance, accidental strong impact damage, no open fire |
| | Capacity | 0.75kwh |
| | Running time | 6Н |
| | Charging time | ≤2.5H |
| | Battery life | Cycle life ≤ 1500 times, keep 80% capacity after 1500 times |
| | Charging mode | Auto / manual |
| | Power output | 12V 5A / 24V 5A |
| | protection system | Power protection, temperature protection |

Parameters

| Category | ltem | Parameter |
|--------------------------|---|---|
| Equipment | Wireless signal receiver | Secure encryption, low delay, high bandwidth for image transmission |
| | IPC | Industrial control computing system |
| | Guided gyroscope | Auxiliary inertial navigation system for Complex Pavement |
| | Camera | Optional / thermograph or visible camera |
| Sterilization efficiency | Ultraviolet sterilization efficiency and distance | Quantity of glass tube ultraviolet lamp: 6; Ultraviolet radiation direction: 360 ° omnidirectional; Accumulated light intensity: 270uv / cm2; UV power: 180W; Single point disinfection time: 10 minutes; Coverage of moving path: radius 6-10m. |
| | Safety lidar | Fuselage front Detection distance: 30m Detection angle: 270° |
| Security function | Emergency stop button | 2 buttons on the left and right sides of the housing |
| | Collision bars | Surround robot 360 degrees |
| | Status indicator lamp | three colors of status indicators, which located in the robot shell. |
| Operation panel and | Start button | 1 at the rear of the robot shell |
| interface | Wireless network | IEEE 802.11 A/C |
| | Control mode | Unattended operation |
| | Disinfection and sterilization | UV sterilization |
| | Remote interaction | Voice intercom, remote control |
| System | Intelligent system | Single machine scheduling system |
| | Robot scheduling management system, remote assistant patrol intelligent system | Robot system scheduling, remote control, patrol plan, data query |
| Accessories (optional) | Remote control computer | Lenovo or DELL brand desktop computers |
| | Switch | Huawei or the same quality brand |
| | On site wireless base station AP | Including a set of high-power host, antenna, lightning arrester and power divider to meet the requirements of robot operation in 100m × 100m open area |

Software

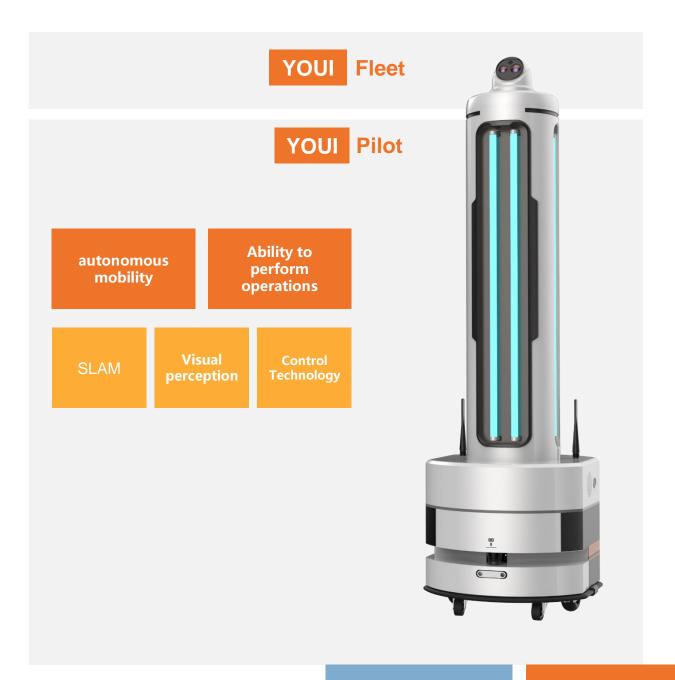
User interaction

System integration

Facility integration

Environment al awareness

Business system



Process and Scenario

Set kill time and kill area in advance, Set disinfection time

Reach the set time and start killing

Automatically navigate to kill zone Start killing at the set time

Kill completed Navigate to the next area

Waiting for the next kill time to arrive

Return to the charging point for automatic charging \ standby

Circular kill Until all areas are killed











Accessories parameters

| Automatic charging station | | |
|----------------------------|---|--|
| Current range | 5-30A | |
| Voltage range | 15-60V | |
| Contact point | 2 | |
| Battery | 180VAC-260VAC/45Hz-65Hz | |
| Rated output power | 1800W | |
| Working temperature | -15°C-+50°C | |
| Working humidity | 10%-90%RH | |
| Size | 500*500*380mm | |
| Weight | 15kg | |
| Installation mode | Back against the wall or directly on the floor using a wall bracket | |

| Handheld charging head | |
|-----------------------------|-------------------------|
| Model | NE02 |
| Maximum charging voltage | 58.8V |
| Maximum charging current | 8A |
| Input | AC185V-AC265V;47Hz-63Hz |

| Remote control | | |
|------------------|-----------------------------|--|
| Model | F710 | |
| Weight | 200g | |
| Protection level | IP20 | |
| Battery type | The 5 th battery | |

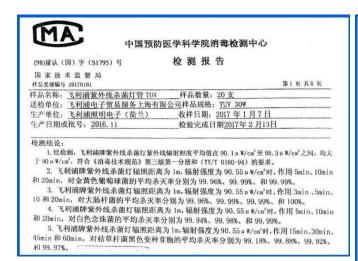
| Wireless AP remote view (optional) | | |
|------------------------------------|------------------------------------|--|
| Modal | AWK-1131A | |
| Size | 58*115*70mm | |
| Installation mode | Rail installation or wall mounting | |
| Power supply | 12-48VDC (6.72W) | |
| Protection level | IP30 | |

Double light thermal imager for human body temperature measurement* Abnormal temperature Full screen temperature measurement, expert mode: 10 points, 10 frames, 1 line, 21 temperature measurement rules in total Support AI face detection, multi-target temperature detection at the same 30-45°C The built-in horn triggers the alarm "body temperature is abnormal, please check the body temperature", and the linkage white light flashes ±0.5℃ Support the fusion of visible light image information in the thermal imaging channel to improve the image details of the thermal imaging channel Support superimposed heating imaging information in visible light channel image (only support temperature measurement rules, temperature measurement values) 60Hz: 30fps (Output: 1920 × 1080),

25fps: (Output: 320 × 240)

Standards and certifications

MA Certificate

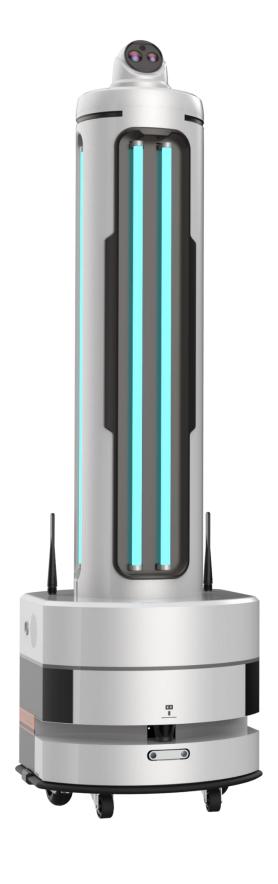




Effect

- Ultraviolet disinfection robots use short-wave UVC ultraviolet rays for
 disinfection and sterilization, which can destroy the DNA and RNA of germs
 and cause them to die within a few minutes, which can effectively kill the
 bacteria. After testing, in the high-level disinfection mode, the spores and
 various multi-drug resistant bacteria on the surface of the environment
 (smooth surface, rough porous surface) and various multi-drug resistant
 bacteria can completely achieve the high-level disinfection requirement of
 99.9999%.
- Using a mobile robot as a carrier, an autonomous mobile multi-point disinfection of the surface of the environment and air can complete a complete disinfection of a thousand square meters in about 150 minutes, which is ten times more efficient and effective than conventional manual and fixed disinfection. the above.

Precautions



- When using an ultraviolet lamp to sterilize, keep the environment closed
- It is forbidden to be present during the anti-virus to avoid injuries caused by direct UV rays on the eyes and skin
- If you need to work under ultraviolet rays,
 you should strengthen personal
 protection and wear protective glasses
- During use, the surface of the UV lamp should be kept clean (can be wiped with alcohol gauze before turning on)
- The irradiation surface should be directly exposed to ultraviolet rays, and the exposure time of each area should be greater than 10 minutes
- Ventilation is required after killing
- Ultraviolet rays can kill a variety of microorganisms, including bacterial propagules, spores, mycobacteria, viruses, fungi, rickettsia and mycoplasma, etc.
- Water and air can be disinfected with UV

