EDGE
Building Intelligence Group

Contagion Detection & Disinfection Solutions for Real Estate

CHALLENGE: Create safer premises with effective, proven detection, sanitization & remediation. Deliver rapidly deployable, smart, safe solutions that easily coordinate with base-building systems and existing teams and methods.

SOLUTION: **Prevention:** EDGE's automated external body temperature screening, facial recognition, mask and distancing detection systems integrate with building/premise access controls to screen symptomatic individuals at entry points.

Disinfection: UC-C and certain other light spectrums are CDC sanctioned to disinfect surfaces, air and water. EDGE designs and delivers smart UV systems that coordinate with sensors and access controls for safe autonomous UV solutions suitable for large-scale deployment. Our smart UV solutions ensure that people are not exposed to dangerous UV-C light employed to disinfect pathogens. EDGE incorporates ducted Electrostatic Ionization to disinfect ducted air, powered with low voltage Power over Ethernet (PoE) for fast easy implementation.

AUTOMATED, INTEGRATED EXTERNAL BODY TEMPERATURE SCAN w/AI

Deploy integrated fast and accurate EBT as a first line of defense against infectious disease contamination. Advanced near-infrared sensory and AI-driven facial recognition technology provides reliable temperature assessment in seconds.

- ✓ Policy-driven automatic email & SMS notifications, and desktop push notifications to security desk/secretary computer monitors.
- ✓ Face mask detection
- ✓ Authentication for automated doors and turnstiles
- ✓ Facial recognition w/adjustable recognition tolerance levels
- ✓ Customize temperature sensitivity levels
- ✓ Exportable data
- ✓ "Whitelist/Blacklist" database for facial authorization and logging

Intelligent safety protocols are needed restore safety and confidence. EDGE body temperature screening solution integrates with existing base-building systems. We harmonize EDGE's screening solution with existing building systems and property-defined policies aimed at complying with new NYS Mandatory and Recommended Practices: "Implement mandatory health screening assessment (e.g. questionnaire, temperature check) for employees, contractors, and other visitors, asking about (1) COVID19 symptoms in past 14 days, (2) positive COVID-19 test in past 14 days, and/or (3) close or proximate contact with confirmed or suspected COVID-19 case in past 14 days. Responses must be reviewed and documented daily." EDGE supports the system design delivery, commissioning and after-sale support.

UV-C LIGHT AND ELECTROSTATIC IONIZATION DISINFECT AIR, SURFACES & WATER
EDGE MAKES THEM *SAFE & SMART*

MODULAR SANITIZATION SOLUTIONS PLATFORM:

- ✓ Self-managing system for office, elevator, hotel room, conference areas, vehicular, lavatories, dining and food preparation, etc.
- ✓ Customizable & Open architecture for simplified, use-case enforcement and integration with building systems, UV lights, people counters, access control, elevator controls, more
- ✓ Modular, kitted and scalable and rapid design and deployment
- ✓ Property management sets policies
- ✓ For retrofit, substantial renovation and new project design.

SELF-MANAGING, UV SANITIZATION W/PEOPLE COUNTER, MOTION SENSOR, ACCESS CONTROL TO PROTECT OCCUPANTS

Enabling Smart Buildings
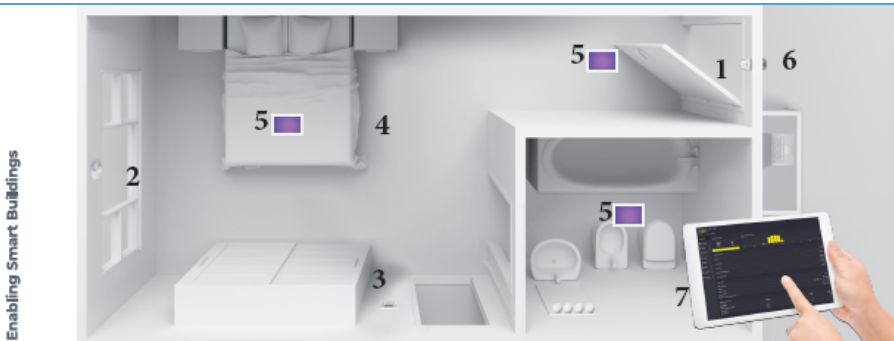
1. Occupancy Sensors
Occupancy sensors scan the room to determine if people are present. All occupancy sensors must show a vacant room before sanitization cycles begin.

2. People Sensor
People sensors are configured to identify how many people, adults and/or children. are present within the room, regardless of motion.

3. Present Detection Vital Signs Monitoring Sensor
An additional form of detection, this sensor relies on vital signs to determine if the room is occupied.

4. Pressure Sensors
Pressure sensors within a bed indicate if the user is lying down. Sanitization cycles only begin when the room is deemed empty by motion sensors, occupancy sensors and bed sensors.

5. UVC Disinfection Fixture
When a room has passed all safety checks, disinfection devices begin the sanitization cycle. Continual safety checks ensure the room remains unoccupied while disinfection occurs.

6. Door Sensors
Once sanitization cycles begin, door sensors monitor if anyone has entered the room. If a door sensor is triggered, the sanitization cycle stops while other sensors scan the room for occupancy.

7. Touchscreen Controls
Touchscreen controls on both sides of the door allow users to control disinfection cycles. All safety protocols remain active even if sanitization is triggered manually.

Using the disinfecting power of UV light technology, you can program a cycle to sterilize individual rooms or entire offices during nonbusiness hours quickly and efficiently while there is no occupancy. Give employees and others the confidence of being in a healthy environment.

DISINFECTION IN PROGRESS | DISINFECTION COMPLETE

DISINFECTION IN PROGRESS | DISINFECTION COMPLETE

RESTROOM | RESTROOM
CLEANING: -2:34 | CLEANED: 9:05

Initiate Safety Checks
Continuous Occupancy Scan
Upon triggering, connected sensors and devices to run safety checks to ensure the room is unoccupied.

Prepare UVC Lighting
Continuous Occupancy Scan
Once space is deemed unoccupied, door automatically locks from the outside, turns the indicator light outside the space red, and turns on the UVC lighting to begin the disinfection process.

Begin Disinfection Process
Continuous Occupancy Scan
While the disinfection process runs, system continually scans the space to ensure it remains unoccupied. If a person is sensed in the space, the disinfection process is halted.

End Cycle
Upon the successful completion of the disinfection process, the status of the space is deemed "Clean" and all sensors, locks, and other protocols return to normal for occupant use.