

UVC Cleaning Systems motion Sensor Technology

UVC Cleaning Systems uses four motion sensors on the M20 and M15 mobile disinfection models. This provides 360 degrees of occupancy coverage in the treatment area. These sensors use both passive infrared (PIR) and ultrasonic technologies to determine if motion is present before and during the UVC treatment. When the start button is pressed on the remote control the motion sensors scan the treatment area for 45 seconds looking for motion. If no motion is present the UVC lamps turn on and disinfection cycle is started. The sensors have a range of 12 ft (3.7m) to 14 ft (4.2m) of distance from the unit on all sides. When a person walks into the treatment area and is within the detection range the device detects a temperature change (PIR) and a disturbance in the ultrasonic sound wave that triggers the sensors. In 1 to 2 seconds the device processes this information and then turns off in 1 second. If the device is part of linked team of mobile units the timing is the same, all the units in the linked team turn off together. When motion sensors are triggered the remote control displays "Motion Detected" and the mobile unit displays "Service Required". The operator will press the "Reset" button on the remote control and the UVC device will continue the disinfection treatment where it left off. The SD card records the event and the data tracking report shows the time, date, operators name and the location where the motion was detected.

