

ENVIRONMENT CONSIDERATIONS HOSPITALITY

Seasonal Decor

Seasonal displays for the holidays are often in areas that obstruct the robot's normal route path. This presents challenges with the robot's original mapped route which could lead to the robot having trouble localizing or navigating around potentially undetectable objects such as fake snow, signs or temporary carpet.

If the area is small and confined to a controlled and unchanging area, cones may be used to prevent the robot from interfering with undetectable objects. Otherwise, we advise that new routes be created to accommodate the seasonal displays.



Circular Support Columns

These cannot be cleaned around in the same manner as commonly done by manual scrubbing. Often the driver will make several circles around the beam. When this maneuver is replayed in autonomous mode, the robot may detect it's rear wheel is close to the column and calls for an assist.

You may want to avoid the columns or beams all together, however, if the column is large enough to make wide turns around the structure, the robot may navigate the area without issue. Test first.

Uneven Flooring

Uneven flooring or areas with raised flooring less than 4 inches are undetectable by the robot's vision system. The scrubber may be able to drive over the uneven flooring manually but running autonomously can present issues with the robot's ability to see the depression or raised portion of the floor. If this happens while the robot is running autonomously, it may recognize the depressed area as a cliff and the raised area as a wall. Avoid uneven flooring while training routes keeping in mind that the robot sees the environment differently. You can place objects like cones or wet floor signs over the area you'd like the robot to avoid.



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Flat Objects

The robot cannot detect objects less than 4 inches from the floor and will run them over in autonomous mode. If they appear in the robot's route, move them out of the way or retrain routes to avoid such objects.

- Signs or umbrellas with flat bases
- All-weather entrance mats
- Raised flooring



Seating Areas

Dynamic environments such as restaurants/bars and lobbies may not be best suited for autonomous cleaning. The tables and chairs move around and often there is not enough space for the machine to clean in between. It is possible where there is enough space, but it would require thorough preparation each night to ensure all the areas are clear and chairs pushed in.

Floor to Ceiling, Reflective Windows

When scrubbing along an edge or glass partition, a reflection may cause the robot to perceive a false obstacle due to sensor interference and come to a stop. When teaching an autonomous route, stay 1-2 feet/30-60 cm away to prevent such assists from occurring. You may want to consider training a short route to test by these areas to ensure proper route scrubbing.



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Leafy Plants

Plants can become problematic obstacles because they grow over time and their dimensions increase.

When creating routes leave a 2-foot buffer between the robot's autonomous path and leafy plants.

New Movable Objects with Wheels

Be careful when creating autonomous routes in areas with wheeled shelving. If the environment is already very tight, slight movements to wheeled objects can create spaces that are too small for the scrubber to navigate. If you move the wheeled shelving, you must make sure that it is back to its original spot from when you mapped it.



Ramps and Sloped Flooring

The robot cannot navigate up and down slopes. When making autonomous routes do not attempt to go up or down ramps and other sloped areas.

Sloped areas can serve as a natural barrier when segmenting a space between several different autonomous routes.

Vinyl Floor Stickers

These are flat objects and they cannot be seen by the scrubber. If they are fragile and may be damaged during floor scrubbing, exclude these from autonomous routes.

If they are added to the environment it may be necessary to teach new routes for the scrubber.

