



Big Lx[®]

Autonomous Cleaning Equipment

No Subscriptions Fees



Run Entire Shift with No Human Intervention!

Rivanna
EQUIPMENT CO.

Auto:



Dock



www.rivannaco.com
(804) 749-8044

Ai-32 
Clean 13+ Hours A Day
Or All Night



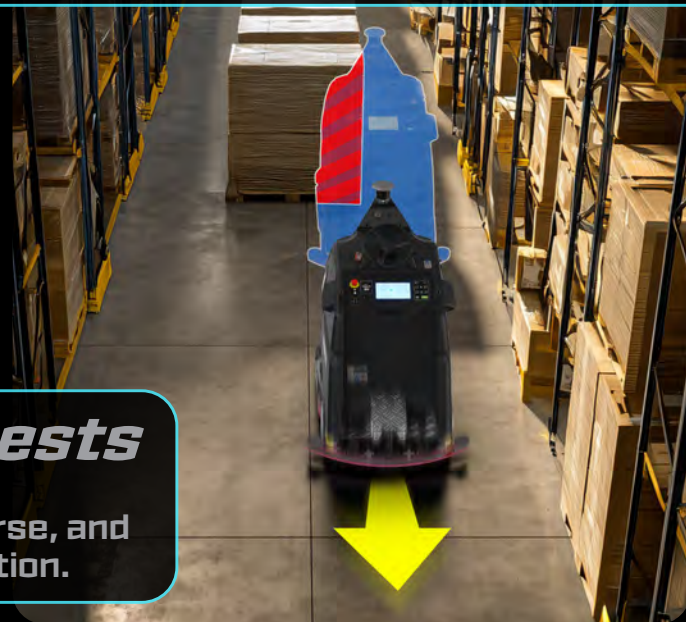
Machine Specifications

- Cleaning Path: 32 in
- Size (L×W×H): 64.2 × 43.3 × 57 in
- Weight: 992 lb
- Max Operating Time: 13+ Hrs / Day*
- Solution Tank: 40 gal
- Recovery Tank: 50 gal

* 60% utilization w/ Dock Station 220 VAC

Climbs Ramps Easily

- Rear Wheel Drive for better traction



Fewer "Help Me..." Requests

- Ai-32's Path will recalculate routes, reverse, and continue cleaning without human intervention.

Applications



Warehouses



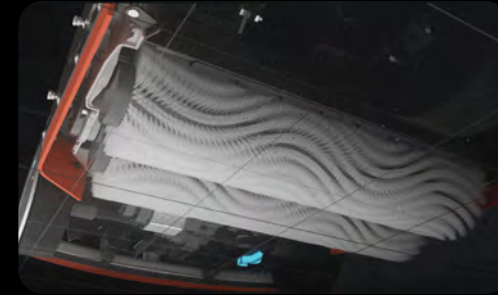
Staging Area



Lights Out

Under The Hood

Powerful Cylindrical Deck



Cylindrical Benefits

- Reduces Pre-Sweeping needs
- Scrub & Sweep Simultaneously



Auto Self Docking

- Permits hands off lights out autonomy
- 5 Layers of redundant safety for solution filling.
Level Gauge, Float Switch, Timer, Bypass, Auto Close Valve.

Safe Charge

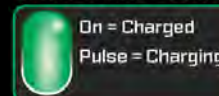
Fresh Water

Soap Dilution

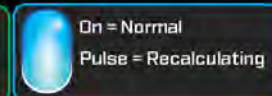
Recovery Drain



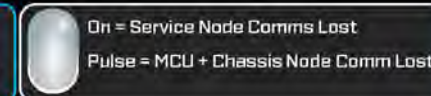
Scrubber LED Status



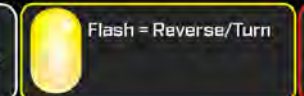
On = Charged
Pulse = Charging



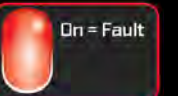
On = Normal
Pulse = Recalculating



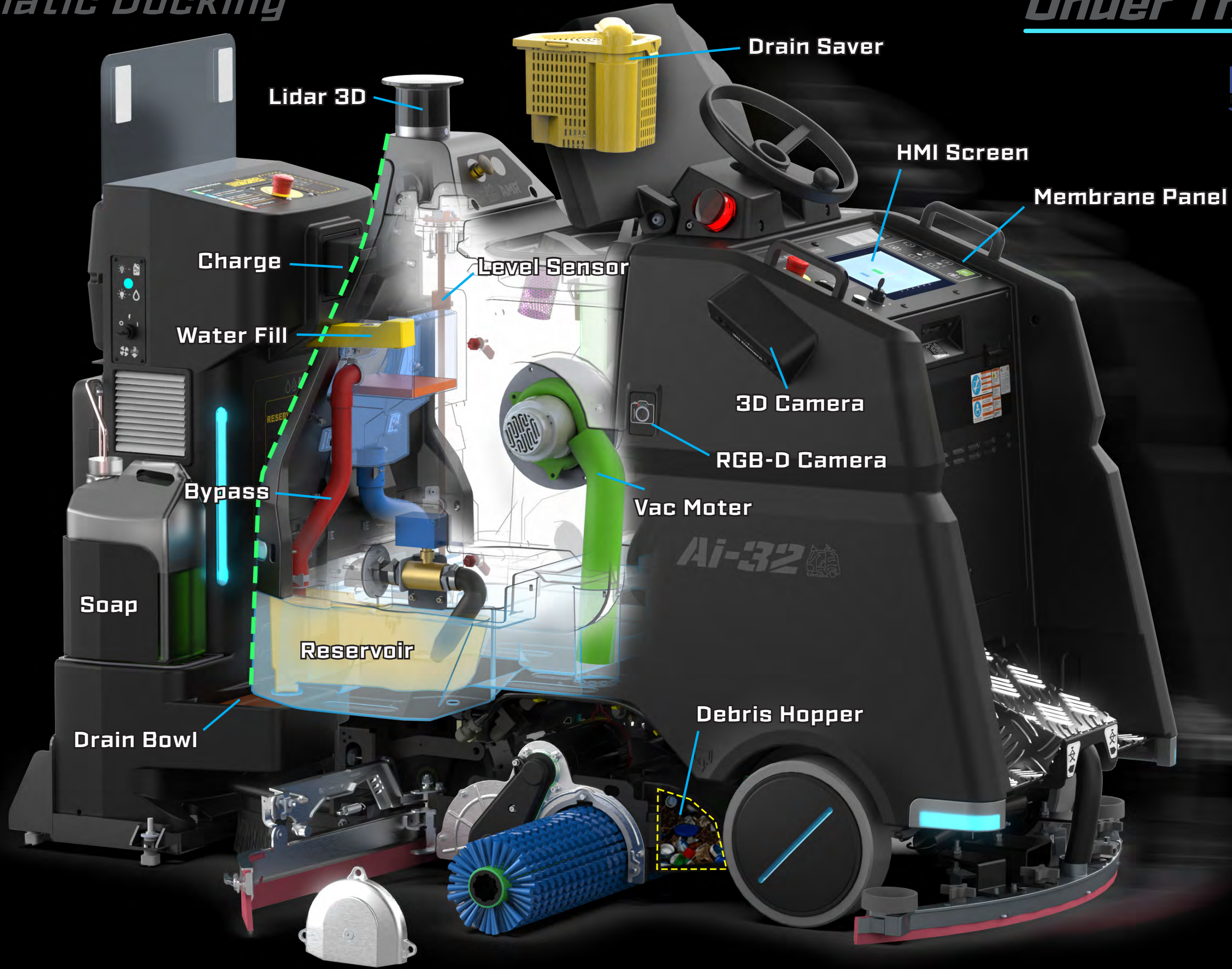
On = Service Node Comms Lost
Pulse = MCU + Chassis Node Comm Lost



Flash = Reverse/Turn



On = Fault



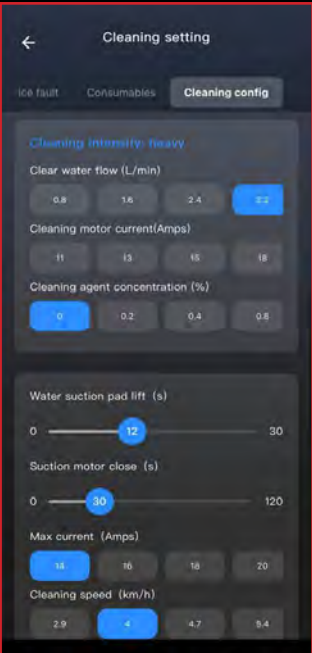
Smart Cleaning

Convenient Phone App - Manage Fleet from your pocket

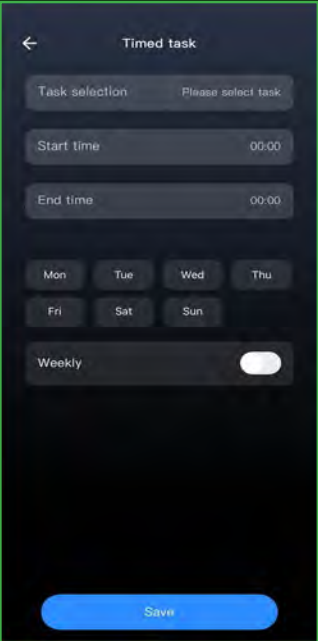
QR code for app >



Performance



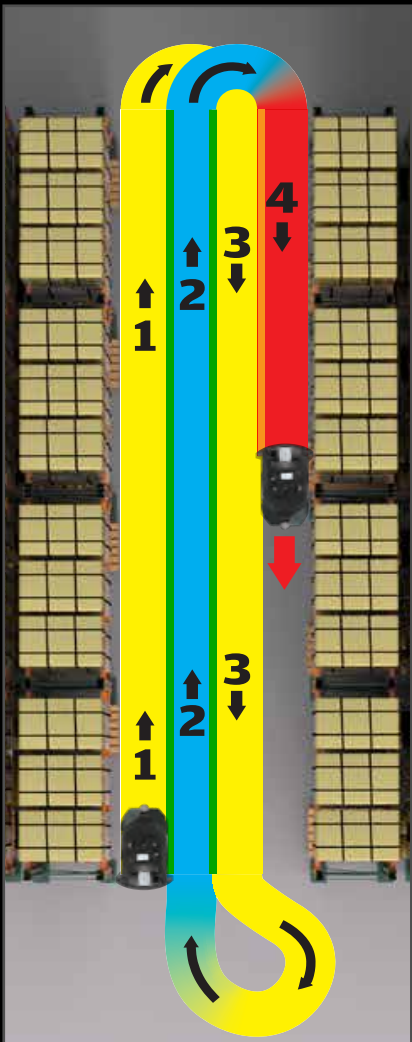
Schedule



Task Edits



Live Tracking

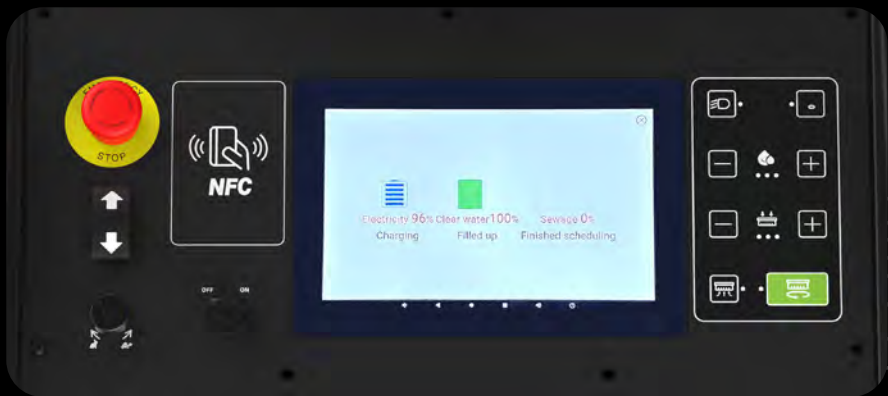


< Aisle Patterns

Ai Software learning improves coverage with limited turns, developing more efficient paths for the Ai-32.

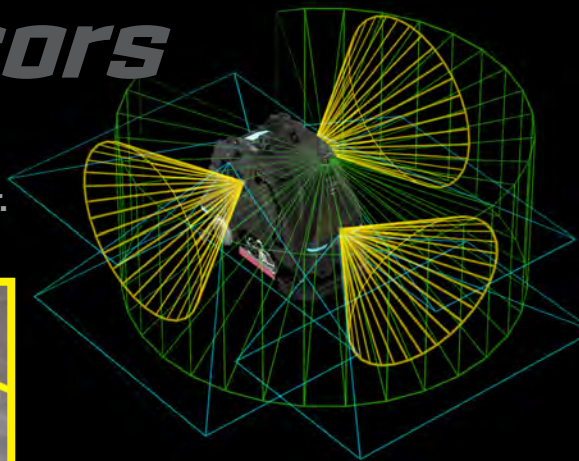
Lidar, Cameras, Action!

- Powerful On-Board Controller
- Touch Screen for set up HMI
- Simple Membrane Panel for manual control.

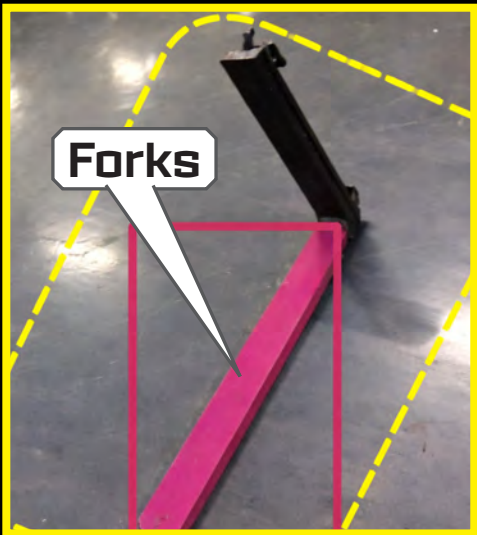
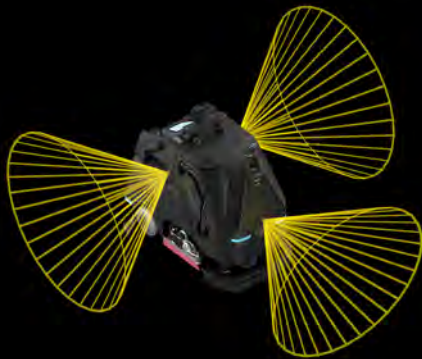


Layered Array Sensors

Ensure better coverage and object recognition for superior navigation. Fewer interruptions allow more cleaning per hour.

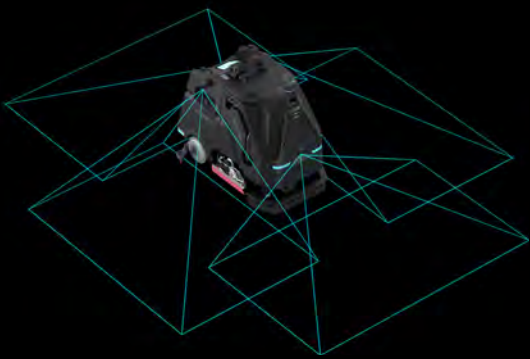


RGB-D Camera (3) image

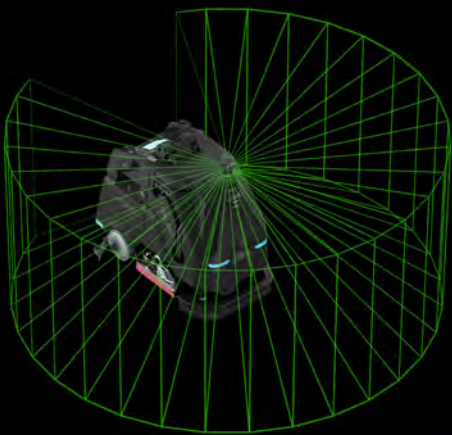


Actual Fork

3D Camera (4) image



3D Lidar image



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