

Livestock Processing & Food Production FAQs

How effective is the UVZone® Shoe Sanitizing Station?

UVZone boasts industry-leading elimination rates - average 4Log (99.99%) for Salmonella, E. coli, Listeria, Cronobacter and other similar microorganisms.

Efficacy of UVZone® Shoe Sanitizing Station in 6-10 seconds			
Testing Lab	Type of Pathogen	Percent Pathogen Reduction	Log reduction
NSF International	Escherichia coli	99.9989%	4.96
Microchem Laboratory	Salmonella enterica	99.9980%	4.81
NSF International	Staphylococcus aureus (MRSA)	99.9969%	4.51
CREM CO. Labs	Norovirus	99.9951%	4.31
Microchem Laboratory	Listeria monocytogenes	99.9940%	4.21
Microchem Laboratory	Cronobacter sakazakii	99.9910%	4.04
CREM CO. Labs	Human Coronavirus	99.9796%	3.69
University of Minnesota VDL	Porcine reproductive & respiratory syndrome virus (PRRSV)	99.9600%	3.40
University of Minnesota VDL	Porcine epidemic diarrhea virus (PEDV)	99.5300%	2.33

How does it disinfect?

UVZone utilizes the power of UV-C and ozone disinfection. The UV-C light opens the cell membrane, and the UV-C and ozone together denature the microbial DNA and RNA, making it unable to replicate.

How does it create ozone?

UVZone generates ozone with UV bulbs. UV light in the range from 160 – 240 nm will create ozone from oxygen. UV lamps tuned to a wavelength of 185 nm will create ozone via the photolysis (*separation of molecules by light*) of the oxygen molecule (O₂).

Why use UVZone when we have mats, baths, and other footwear disinfection?

UVZone is a superior alternative to these methods for several reasons.

- **Elimination Rates:** UVZone boasts industry-leading elimination rates - average 4Log (99.99%) for Salmonella, E. coli, Listeria, Cronobacter, PEDV, PRRSV, and other similar microorganisms.
- **Consistent Efficacy:** Our stations are equally effective with each use.
- **Low Maintenance:** Our station requires significantly less maintenance than alternatives. Simply wipe down the station to remove liquid or debris at the end of the day. Bulbs should be replaced once a year. No additional staff required.
- **Low risk of slips, trips and falls:** UVZone uses no consumables (liquid, powder) and allows for a dry, mess-free environment with little risk of tripping or slipping.
- **More economical than foot baths:** Over a 5-year period, our station is less expensive (~\$45 cheaper a day) than 3 chlorine foot baths.

Is it safe?

Yes! Our station is EPA registered, TÜV SÜD certified, CE Marked, and has been tested by NSF International, Microchem Laboratories, and the University of Minnesota Veterinary Diagnostic Laboratory.

Who else is using UVZone?

Food and Dairy Processors, Cannabis Operations, Optics Manufacturing, Clean Rooms, Pharmacies, and Healthcare facilities are using UVZone technology to protect critical areas and reduce the spread of pathogens on footwear.

Are UVZone® stations water-resistant?

UVZone® stations are water-resistant and have an Ingress Protection rating of IPX1 according to IEC Standard 60529 - meaning that dripping water (vertically falling drops) shall have no harmful effect on the station. The station should not be submerged in water or other liquids.

What are the technical specifications?

Overall Dimensions: 24" x 24" x 2"h – 61 x 61 x 5cm

Overall Weight: 33lbs / 14.96kg

Lamp life: 10,000 hours accumulated on time to 80 % output

AC Power Input: 120-240vac, 50-60hz, 1.2amp

Type of Protection Against Electrical Shock: Class I

Degree Of Protection Against Electrical Shock: B

Degree Of Protection Against Ingress Of Water (IEC 529): IPX1

Weight Supported: Up to 400 lb - 181 kg

