ARA725

AI-Powered UHP Sprayer

ecorobotix

Powered by Plant-by-Plant AI™, this Ultra-High Precision Sprayer applies crop protection products only where needed, enabling the safe use of non-selective herbicides while reducing input and labor costs and supporting higher yields. Its new 24 ft (7.25 m) spray width is optimized for standard onion bed configurations in the Pacific Northwest, improving field efficiency and overall productivity.



Flexibility of Crop Care Procedures

Plant-by-Plant AI™ offers capabilities like thinning, application of non-selective herbicides, and the use of an adjustable safety zone around the crop.

Increased Yields

By targeting spray on weeds, our technology helps achieve healthier and more abundant crops.

Boost Your Bottom Line

Reduce crop protection product use by up to 95%, save on manual labor costs, and see return on investment in as soon as one season.

Flexible Planting Compatibility

Its 24-foot spraying width supports 22”, 34”, 44”, and 68” bed patterns, adapting to different field layouts and tractor widths.

A Revolution in Precision Agriculture

With a working width of 24 feet (7.25 meters) and a driving speed of up to 4.5 mph (7.2 km/h), ARA725 Ultra-High Precision Sprayer can cover up to 12 acres (4.5 hectares) per hour.

Increased Spraying Efficiency

ARA™ achieves a 2.4 × 2.4 in (6 × 6 cm) spot spray. This precision allows you to target closer to the crop, even within the row, without causing harm.



Minimal Recognition Size

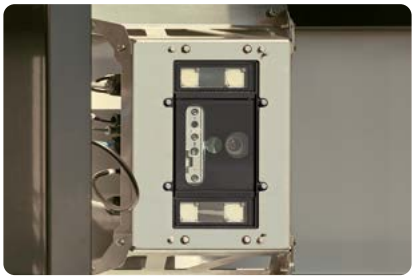






Plant-by-Plant AI™ Technology

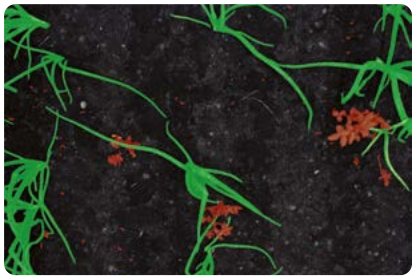
① Sense



3D and RGB cameras

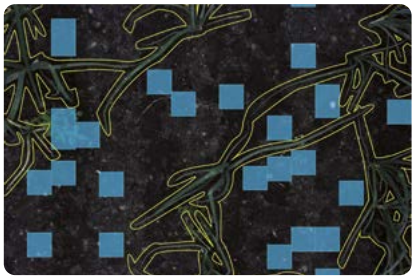
Plant-by-Plant AI™ combines AI and seven advanced camera modules, with 3D and RGB cameras ensuring a uniform image for instant data analysis.

② Decide



Plant-by-Plant AI™ analyzes every pixel to distinguish crops from weeds with accuracy, ensuring each spray targets only what's necessary.

③ Act



Crop Target weed Treated area Safety Zone

With protective zones, Plant-by-Plant AI™ enables safe use of non-selective products, maximizing weed control, minimizing crop stress, and boosting yield.



ARA, the Ultra-High Precision Sprayer sets the benchmark for precision: plant by plant treatment only where it's needed. The result? Unmatched performance with drastically reduced product use and costs, while maximizing yield.

Plant Detection Models

Unlock precise spraying of herbicides, fungicides, insecticides, biostimulants, and liquid fertilizers in row crops, vegetables, grasslands, and turf, for monocots and dicots.

Specialty Crops

- Onion
- Carrot
- Lettuce — THINNING
- Broccoli — THINNING
- Cauliflower — THINNING
- Other cabbage — THINNING
- String beans
- Spinach
- Chicory
- Leek
- Garlic
- Red beet
- Celery/Celeriac

Upcoming...

- Pepper
- Zucchini
- Pumpkin
- Watermelon
- Cantaloupe
- Cucumber
- Processing tomato
- Parsley
- Swiss Chard
- Escarole
- Radish

Target Weeds

- Volunteer potato
- Monocot/Dicot weeding

Upcoming...

- Nutsedge

Pasture

- Dock
- Thistle
- Ragwort

Upcoming

- Dock and Thistle

Other Application Modes

- All plants
- Target size
- Turf

Upcoming...

- Lines detection

Seed Grass

Upcoming...

- Tall Fescue
- Kentucky Bluegrass
- Engl. Raygrass

Broadacre Crops

- Potato
- Sugar beet
- Rapeseed (Canola)
- Corn

Upcoming...

- Sweetcorn
- Cotton
- Wheat (Dicot)
- Soy

Our upcoming algorithms
are in the final stages of development,
free for trialling during this period.

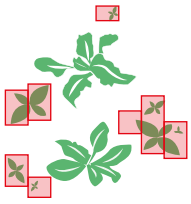
Crop Care Procedures



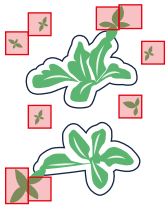
KATERINA LEE
CROP CARE MANAGER NA, ECOROBOTIX INC. - USA

"I talk to growers every day who are tired of being at the mercy of labor availability during thinning season. ARA changes that equation entirely. One operator, consistent spacing, and the confidence that the right plant is kept every time — that's a game changer for lettuce operations of any size."

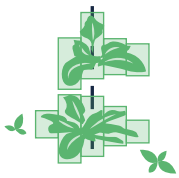
Crop-Specific Modes



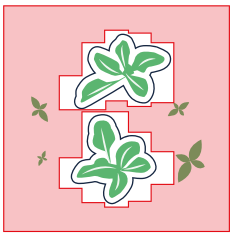
Application of selective herbicides **on weeds even close to crops.**



Application of non-selective herbicides **with an adjustable safety zone.**



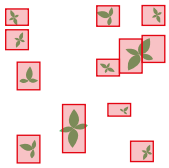
Application of fungicides, insecticides, fertilizers and biostimulants **on the crop only.**



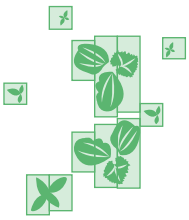
Spray all but crop **with an adjustable safety zone.**

Universal Functions (Non Crop Specific)

Function All-Plants

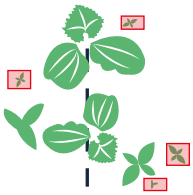


For preplanting: herbicide application.

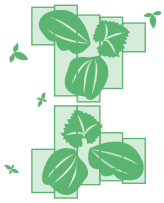


Application of fungicides, insecticides, fertilizers and biostimulants **on all-plants.**

All-Plants Combined with Target Size



Size-based **herbicide** application.



Size-based application of **fungicides, insecticides, fertilizers and biostimulants.**

Thinning Model

Application to remove excess plants and ensure ideal spacing and density.

Thinning under normal conditions



Thinning with multiple plant management (removing overlapping plants)



Engineered for Versatility, Built for Reliability



Day or night, ARA725 keeps your beds spotless, tackling weeds with a 24 feet (7.25 meters) working width.

A close to ground-level application and protective covers reduce spray drift, making ARA usable even in moderate winds within legal limits of your region.



CODY ANDERSON
L&L AG PRODUCTION, LLC, ONION GROWER - USA

We sprayed 20 acres with a total of 60 gallons. Normally we would use about 1,000 gallons to cover the whole field. We used 1 ounce of active ingredient across the whole field where we usually would use 16 ounces. While using ARA, the onions had really good color and really good shape, totally unaffected by the spray.

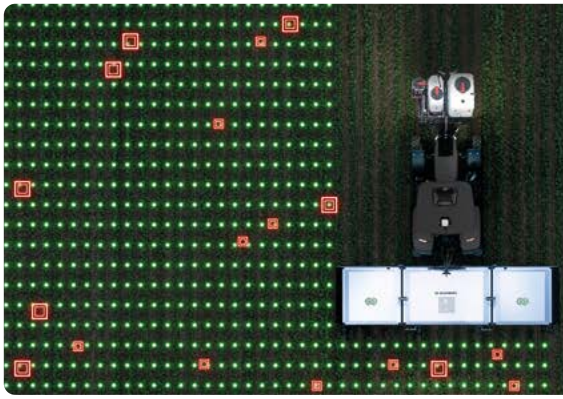


Simple set-up!

ARA Ultra-High Precision Sprayers attach to any tractor and are controlled in a few clicks via tablet. Select the crop and treatment, and ARA adjusts all settings automatically for speed and turns, with dose control ensuring stable spray concentration.

All-in-One Cloud Platform

Take full control of your crop management with our cloud platform for UHP Technology. Real-time data, maps, planning, and fast support, all in one easy-to-explore place.



As-Applied Maps with RTK GPS Technology

Higher positioning accuracy for detailed as-applied maps. Ideal for providing full traceability for regulatory compliance, subsidy applications and precise invoicing data for contractors.

Technical Data

		Imperial	Metric
Working Width		Adjustable up to 23.8 ft	Adjustable up to 7.25 meters
Dimensions (L × W × H)			
Rear module during transport		9.07 × 13.12 × 10.65 ft	2.77 × 4.44 × 3.25 meters
Rear module in operation		9.07 × 24.49 × 4.19 ft	2.77 × 7.46 × 1.28 meters
Front tank system		6.16 × 4.89 × 5.35 ft	1.88 × 1.49 × 1.64 meters
Variable Wheel Spacing		From 5.57 to 11.48 ft	From 1.70 to 3.50 meters
Spray Boom	180 nozzles	spaced 1.6 inches apart	spaced 4 cm apart Automatic height adjustment
Dual-Tank System: 3 Components			
Fresh water tank		158.5 gal	600 liters
Mixture tank		79 gal	300 liters
Induction hopper		4 gal	15 liters
Optional Fluidic Kit		Allows connection to compatible alternative tank systems.	
Pump		19.8 gal	75 liters
Weight		128 lbs	58.05 kg
Dimensions (L × W × H)		32 × 21 × 27 in.	81.28 × 53.24 × 68.58 cm
Weight			
Rear module		3300 lbs	1500 kg
Front tank system (curb weight)		904 lbs	410 kg
Tractor Requirements			
Rear power take-off			4 hp (3 kW) max. energy required
Front & rear 3 point hitch			Category 2
Front hydraulic flow rate		8 gal/minute	30 liters/minute
Productivity (ground speed)		Up to 12 acres/hour at 4.5 mph	Up to 5 ha/hour at 7.2 km/h
Control and Setup			Via Ecorobotix UI App on a wireless tablet
Task Documentation		Recording of completed tasks and spray maps with RTK GPS antenna	

Specifications for information purposes only, subject to change without prior notice.





Dual-Tank Front System

Plant-by-Plant AI™

ARA is supplied with a front-mounted water and product tank system. Its new induction hopper ensures safer, cleaner filling at ground level, with easier handling, reduced contact with crop protection products, and less risk of spills or fumes. Other tank configurations may be compatible thanks to our fluidic kit. Contact your local dealer for more information.



1. Front Tank System
   - Fresh Water Tank
   + Mixture Tank
   + Induction Hopper
2. Optional: Fluidic Kit
3. PTO
4. Hydraulic Power Unit
5. Spray Boom
6. RTK

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Certified B Corporation

SOLAR IMPULSE EFFICIENT SOLUTION SEPTEMBER 2024

A local dealer is likely closer than you think.
Get in touch to learn more!

ecorobotix.com/en-us/contact-us/

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