

ARA™ 620 · AI-Powered UHP Sprayer

Equipped with Plant-by-Plant AI™, ARA™ 620 Ultra-High Precision Sprayer applies crop protection products only where needed. It's the only smart sprayer that safely uses non-selective herbicides, reducing input and labor costs while boosting yield.



Drastically Reduce Labor

Replace manual spraying and hand weeding with fully automated, ultra-precise spot treatments.



Plant-by-Plant AI Treatment

Achieve up to 95% reduction in plant protection product usage.



Reduce Drift

Close to ground boom height and protective covers ensure a 95% reduction in drift.



Boost Your Bottom Line

Lower costs on inputs while maximizing your crop yields.



Year-Round Versatility

From herbicides, insecticides, fungicides to liquid fertilizer—ARA adapts to all your seasonal needs.



Ultimate Precision

Unprecedented spray precision of 2.4 × 2.4 inches.

Interested in a demo? Sign up here!



A Revolution in Precision Agriculture

With a working width of 20 feet and a driving speed of up to 4.5 mph, ARA™ 620, the Ultra-High Precision Sprayer can cover up to 10 acres per hour.



Increased Spraying Efficiency

ARA™ achieves a 2.4 in × 2.4 in spot spray. This precision allows you to come closer to the crop and hit more weeds, even between the crops, without harming them.



ARA™ 2.4 in × 2.4 in spray
output in real size

Minimal Recognition Size



Weeds (Mono & Dicots)
≥1/12 in



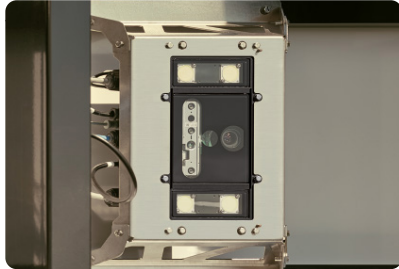
Crop
≥3/4 in



Onion
≥2 in

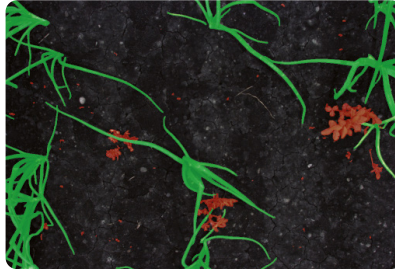
Plant-by-Plant AI™ Technology

1. Sense



Plant-by-Plant AI™ combines AI and six 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.

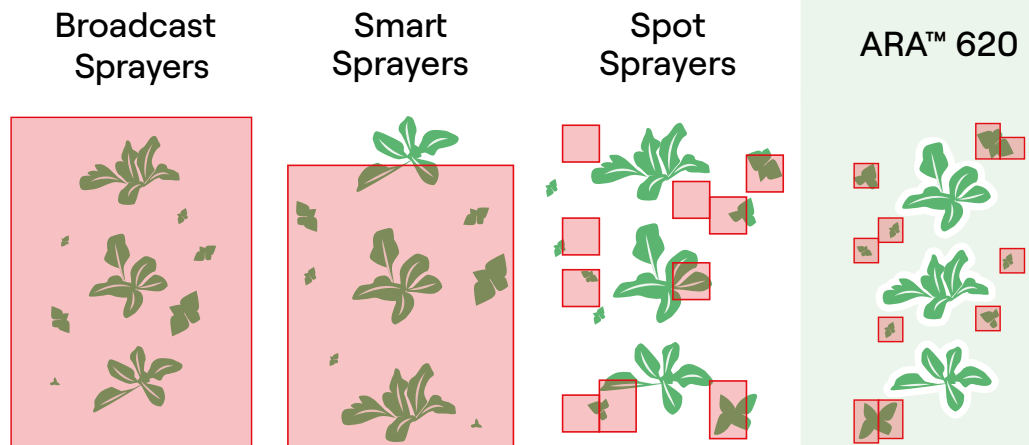
3. Act



■ 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.

Existing Spraying Methods with Crop Presence



	Broadcast Sprayers	Smart Sprayers	Spot Sprayers	ARA™ 620
Precision	No	Low	High	Ultra-High
Minimize crop stress from herbicide exposure	No	No	Low	High
Non-selective herbicides	No	No	No	Yes, possible

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.

Ecorobotix Crop Algorithms

Precise spraying of herbicides, fungicides, insecticides, biostimulants, and liquid

Speciality Crops



Onion



Carrot



Lettuce
Thinning

NEW



Broccoli
Thinning

NEW

NEW



Cauliflower
Thinning

NEW

NEW



Green and red head cabbage

NEW



String beans



Spinach



Chicory

Target Weeds



Dock



Thistle



Dock and Thistle



Volunteer potato



Monocot/
Dicot weeding

NEW

Other Application Modes



All plants

UPDATE



Target size

Broadacres Crops



Sugarbeet



Rapeseed (Canola)



Corn

Upcoming



Leek



Garlic



Red beet



Sweetcorn



Celery/
Celeriac



Tomato



Ragwort



Escarole



Radish



Potato



Cotton



Wheat (Dicot)



Soy



Lines Detection

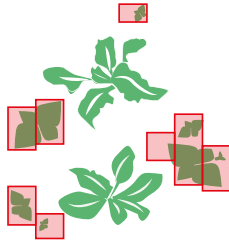
Crop Care Procedures



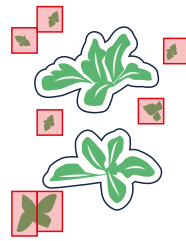
Angus HILL
Agronomist and Farm Support Consultant

We have done over 1750ac of onions with ARA™ with savings up to 96% on raw chemical input. Due to reduced phytotoxic crop impact, we would expect yield benefits of at least 10-15%.

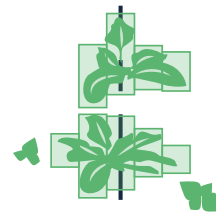
Crop-Specific Modes



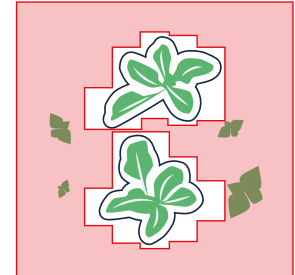
Application of selective herbicides **on weeds even close to crops.**



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



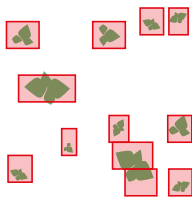
Application of fungicides, insecticides, fertilizers and biostimulants **on the crop only.**



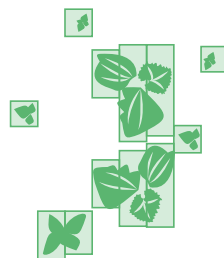
Spray all but crop **with an adjustable safety zone.**

Universal Functions (Non Crop Specific)

Function All-Plants

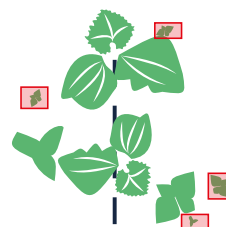


For preplanting: herbicide application.

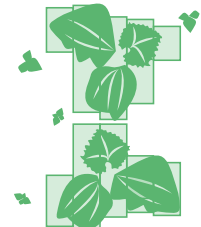


Application of fungicides, insecticides, fertilizers and biostimulants **on all-plants.**

All-Plants Combined with Target Size



Size-based **herbicide** application.



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

Thinning Algorithm

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, ARA™ 620 keeps your beds spotless, tackling weeds with a 20 feet 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 & LAG Production, LLC & Onion Grower, We sprayed 20 acres with a total of 60 gal. Normally we would use about 1,000 gal 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.

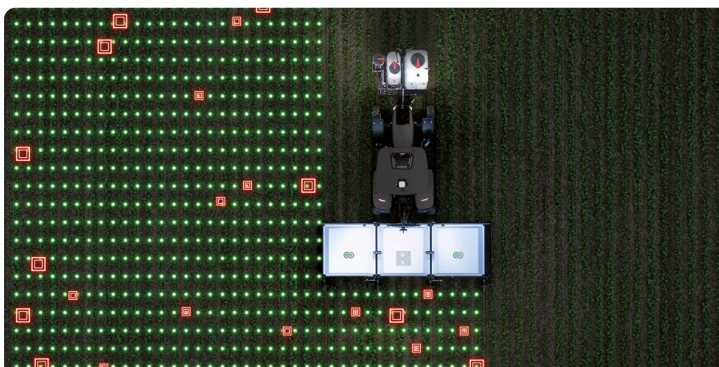


Simple set-up!

ARA™, the Ultra-High Precision Sprayer attaches to any tractor and is controlled in a few clicks via tablet. Select the crop and treatment, and ARA™ adjusts its settings 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 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

Technical name ARA™ 620 S G2 UHP Sprayer

Sprayer Dimensions Length×Width×Height	3 spraying modules Transport mode (closed): 8.9 ft × 9 ft × 10.5 ft Working mode (opened): 8.9 ft × 21 ft × 4 ft Wheel spacing: adjustable from 60 to 80 in
Spray Working Width	Adjustable up to 20 ft
Spray Boom	156 high-precision spray nozzles spaced 1.57 in apart
Weight Sprayer	2600 lbs
Weight Front Tank System	884 lbs (empty) and 2,976 lbs (full)
Front Tank System Volume	160 gal water tank + 80 gal mixture tank
Induction Hopper	The front tank is equipped with a 4 gal induction hopper by default
Top Towing Speed	Up to 4.5 mph
Tractor Connections	Hydraulic: min. 1450psi PTO: 540 (4 HP) of energy required
Area Output	Up to 10acres/hour, day and night
Efficiency	Up to 95% saving on plant protection products (depending on weed density)
Control and Configuration	Via the Ecorobotix UI App on a wireless tablet
RTK GPS	Improved machine positioning with a precision up to +/- 1.18 in

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



Front Tank System

Safer and more efficient handling. The new induction hopper ensures safe, clean filling at ground level, with easier handling, reduced contact with crop protection products, and no splashes or fumes.



1 Front Tank System
Clean Water Tank
+ Mixture Tank
+ Induction Hopper

2 PTO

3 Hydraulic Power Unit

4 Spray Boom

5 RTK

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

ecorobotix.com