

Solix Frequently Asked Questions (FAQ)

General

What is Solix?

Solix is a fully autonomous field robot designed for precision crop management. Using AI-powered computer vision, it identifies weeds and applies herbicides only where needed, dramatically reducing chemical use while improving efficiency and sustainability.

How is Solix different from a traditional sprayer?

Traditional sprayers apply herbicide across the entire field. Solix sprays only individual weeds that require treatment, reducing herbicide use by up to 90%, depending on weed pressure and field conditions.

What crops can Solix work in?

Solix is designed for row crops including corn, soybeans, cotton, sugar beets, and other row crops depending on configuration and regional availability.

Does Solix replace my sprayer?

Not necessarily. Most growers use Solix as a complementary tool for targeted post-emergence applications while continuing to use conventional sprayers for pre-emergence herbicides, fungicides, and broadcast applications.

Pricing & ROI

How much does Solix cost?

Solix pricing starts at \$55,000 USD, excluding freight, installation (when required), applicable taxes, and optional equipment. Final pricing depends on the selected configuration and optional features.

What's the expected ROI?

Based on customer field results, the average payback period is approximately 2.5 growing seasons through herbicide savings in post-emergence applications. Actual ROI depends on weed pressure, acreage, and operating practices. An ROI Calculator is available on our website.

How many robots do I need for my farm?

As a general guideline, one Solix robot is recommended for every 500–600 acres, depending on field conditions and operational strategy.

Operation

Does Solix drive itself?

Yes. Solix navigates autonomously using RTK positioning, onboard cameras, and AI-powered perception.

Can it work at night?

Yes. Solix is designed for both day and night operation. Note: some chemicals are not permitted to be used during the night, check it with your agronomist.

How long does it take to refill?

A complete refill typically takes about 15 minutes.

What chemicals are compatible?

Solix is compatible with most crop protection products. Suspension formulations may require additional agitation, configurable on both the robot and the Refill Station.

Can Solix operate in muddy conditions?

Yes. At approximately 1,600 lbs fully loaded, Solix has very low ground pressure and includes traction monitoring systems that help prevent the robot from becoming stuck.

What happens if it rains?

Growers can configure missions based on weather forecasts and define how conservative the system should be regarding approaching rainfall.

Can multiple robots work together?

Yes. The Solix platform supports multiple robots and multiple Refill Stations operating simultaneously.

How quickly can I deploy a new field?

Setting up a new field typically takes about 15 minutes through the Solix app.

Can Solix operate across multiple farms?

Yes. Solix can be deployed across multiple fields and farms.

AI & Safety**How accurate is Solix's weed detection?**

Solix can evaluate the same weed up to seven times as it moves through the field, enabling up to 99% weed detection accuracy under recommended operating conditions.

What happens if GPS or RTK signal is temporarily lost?

If RTK correction is lost, Solix safely pauses the mission until the required positioning accuracy is restored. The operator is immediately notified through the Solix app.

How does Solix detect people, vehicles, and unexpected obstacles?

Solix uses RGB cameras and 3D sensors to detect people, vehicles, and unexpected obstacles across the robot and spray boom. It operates at low speeds and includes multiple emergency stop buttons on the chassis and boom.

How safe is Solix around people?

Safety is our highest priority. Solix continuously monitors its surroundings and automatically stops whenever a person or unexpected obstacle enters its safety zone. Multiple emergency stop buttons allow immediate manual shutdown whenever necessary.

Field Operations

Can Solix work with cover crops?

Yes. However, if the cover crop has not been configured as a non-target species, herbicide usage may increase significantly.

What happens if the robot runs out of chemical during a mission?

With a Refill Station, Solix automatically returns to refill and resumes the mission. Otherwise, it pauses and waits for manual refilling. Both events generate app notifications.

How much water does Solix use compared to conventional spraying?

Because Solix only sprays where weeds are detected, water savings generally follow herbicide savings and can reach up to 90%.

How long do the batteries last?

Four onboard solar panels continuously recharge the batteries during operation. On battery power alone, Solix can operate for up to eight hours.

How is Solix transported between farms?

Solix can be transported on a suitable trailer or driven manually using the Solix app or remote control. Follow the owner's manual for safe transportation procedures.

Software, Data & Support

Can I monitor my robots from my phone?

Yes. Mission status, robot health, alerts, and operational data are available through the Solix mobile app.

Can one operator manage multiple robots at the same time?

Yes. A single operator can monitor multiple robots simultaneously, with alerts delivered through the Solix app.

Does Solix integrate with my farm management software?

Yes. Solix provides open APIs for third-party integrations.

Does Solix generate application records automatically?

Yes. Solix automatically generates application, scouting, weed detection, and operational reports that can also be accessed through Alice AI.

What reports can I download after a mission?

Mission summaries, scouting reports, operational statistics, and field analytics are available through the Solix app and Alice AI. Partial reports are available during missions.

How do software updates work?

Software updates are delivered remotely through the Solix platform, with configurable update preferences.

Is my farm data secure?

Yes. Solix is built on AWS infrastructure and follows industry best practices for encryption and access control. Our security program includes SOC 2 compliance and regular third-party security audits.

Can I lease instead of buying?

Lease-to-Own programs are available through selected financing partners.

Is there a warranty?

Solix includes a one-year warranty covering manufacturing defects. Many components are covered by manufacturer warranties of up to five years.

What happens during the off-season?

After winterization, Solix can be stored indoors or remain in the field depending on the grower's preference and local conditions.

What support is available during the season?

Support is available through the Solix app, self-service tools, technical support channels, and enterprise support plans.