

The new WEED-IT
QUADRO
Optical Precision Spraying

WEED-IT 
precision spraying



weeditspotspray.com

- TRAVEL UP TO 15MPH
- SENSORS SPACED 40" APART
- EACH SENSOR CONTROLS 4 SOLENOIDS
- SELF CALIBRATION 50X PER SECOND
- SPEED COMPENSATION
- DETECT WEEDS AS SMALL AS A 25C PIECE
- ONE BUTTON START UP DIRECT TO OPERATING SCREEN
- LIGHTWEIGHT SENSORS



GPS OR WHEEL SPEED SENSORS
ADJUST FOR ACTIVATION TIMING.

PLUMBED INTO EXISTING SECTION WIDTH CONTROLLERS

SENSORS SPACED
40" APART

SENSORS MOUNTED 40"
ABOVE THE GROUND

MULTI-BODY NOZZLES ALLOW FOR
NORMAL OPERATION WHEN WEEDIT
NOT IN USE.

EACH SENSOR CONTROLS 4
INDEPENDENT SOLENOIDS
SPACED AT 10" APART

QUADRO'S NEW FEATURES

Blue Light source offering increased power efficiency

The industrially designed sensor is now 40% lighter @ 1.5lbs

Single harness connection point

New dual core processor

Higher detection sample rate

Improved plant detection

10" nozzle spacings, easier retro-fit integration

PWM control suite features

- Improved PWM nozzle control
- Asynchronous PWM activation
- PWM flow control per nozzle with turn compensation
- "Dual Mode" with PWM base rate and PWM plant rate In-crop PWM functionality

Built-in 3-axis accelerometer

Imperial and metric unit modes

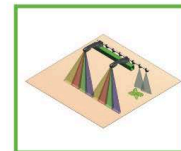


NEW 4 MODES OF OPERATION



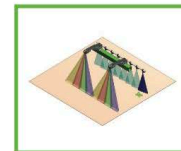
1. WEED-IT Open Spot Spray

- Opens solenoid fully when a plant is detected. Applies maximum available dosage to a detected plant.



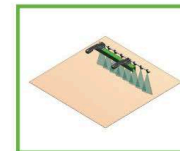
2. WEED-IT PWM Spot Spray

- Applies a controlled dosage of chemical to every plant detected. E.g each dosage is at 15GPA with speed and turn compensation.



3. WEED-IT Bias Rate

- Applies a light background rate across the whole field and a spike rate over a detected plant. E.g the whole field receives 5GPA blanket dosage and a detected plant receives 15GPA



4. Conventional PWM Spraying

- Using individual PWM solenoid control each nozzle specifically delivers a controlled rate. The rate is speed and turn compensating.

Save up to 90% chemical

Stop spraying bare soil. WEED-IT only applies chemical where plant matter is detected. In many burndown or chem-fallow applications operators are saving over 90% on the 2nd and 3rd applications. Imagine spraying all day on a 600 gallon tank load.

New Active Blue Light Source

The Quadro has moved from a red active light source to now blue. The change in light source has improved power efficiency, small plant detection as well as reducing background interference noise levels.

High speed = High productivity

A clear winner with the WEED-IT is its high speed operation. Sensors take sample readings every millimeter up to a speed of 15mph. This operating speed allows more productivity and more time saved!

Background calibration

WEED-IT self-calibrates 50 times per second. All you needed to do is power up the console and drive. WEED-IT is inherently less sensitive to changes in background conditions because it only measures chlorophyll, it also has a fully automatic background calibration protocol so that the system is always operating at its optimum. This gives the operator confidence knowing the system is adjusting itself 50 times per second to be operating at its best.

Light weight

The new Quadro sensors are 40% lighter weighing 1.5 lbs each. Sensors are spaced on the boom at 1 per 40 inches so the WEED-IT has significantly less sensors. Fewer sensors mean less electronics and less weight making WEED-IT more suitable for installation to existing booms, in particular suspended models.





Interface Box

Controls power and data communications. Inverts 12V to 48V to reduce power loss over larger 120ft systems. This power module runs the entire system.

PWM In Crop Feature

Compatible with Teejet, Wilger, ARAG and Hypro. Multibody nozzles allow the operator to switch between normal factory broadcast operation and WEED-IT spot spray. The new PWM in-crop feature now allows operators to use the solenoids for post emergent applications.

Ramsay Valve

WEED-IT is a large spot sprayer and therefore requires pressure and flow on demand. The Ramsay Valve allows high flow rates from the pump to be directed to the spray line or agitated back to tank.

Console

Smart console provided important spray information back to the operator including individual solenoid activation rates, chemical flow rate, and pressure. Control of spray margin and detection sensitivity selection.



INSTALLATION

Wet Boom Solenoids

WEED-IT's compatibility with wet solenoids allows the retro fitting of the technology. Operators can run the sprayer in normal broadcast mode or WEED-IT mode. Now four operations all installed to one sprayer.



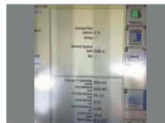
Sensor Bracket

WEED-IT is installed to both dedicated spot sprayers as well as self-propelled or pull-type sprayers. Most brands of sprayers can be retrofitted.



Systems Integration

WEED-IT is able to incorporate existing factory console operations. Section switching, flow rates and mapping can all function alongside WEED-IT to maximize the operator experience.



User friendly console

The easy to use console makes it possible to change the sensitivity of the detection as well as the pre and post spray margin to suit any variety of spraying needs. The console contains a field memory function that allows the operator to check how much chemical has been used and saved. It also displays the live performance of the sensors as they operate.



Be good to the environment

By using less chemical spraying becomes more environmentally friendly and reduces soil residual contamination by only placing chemical where it is needed. Such practices may make some operations eligible for government assistance.



Get it right

WEED-IT Quadro is the next advancement in spray detection technology. The entire design has been engineered to provide world-best technology to help save you money! Over 20,000 sensors have been sold worldwide, testimony is in the continued demand and customer satisfaction after 10 years of impressive product performance.



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SPECIFICATIONS

Detection height:	43 in.
Detection width:	40 in. divided in 4 sections of 10 in.
Overlap between sensors:	2.5 in.
Weight sensor:	1.5 lbs
Size sensor L x W x H:	8 x 4 x 2.75 in
Minimal detection size plant:	1in ² active chlorophyll area
Power consumption sensor:	Max. 18 Watt
Power per solenoid:	Max. 3 Watt
Max width system:	120 ft
Voltage on sensor:	48 Volt
Max. power converter:	800 Watt output (input power 950 Watt)
Current draw on battery:	80 Amp @ 12V

