



Advanced Growing Resources

We see the *Invisible*



Introducing AGR's Spectre®

Save time and money while increasing quality
for your consumers.



A portable handheld device
that detects crop afflictions
early, before they spread...



And integrates into the
way you currently scout
for problems.

Early Detection to Spray *When* and *Where* Needed

**5X
Better**

Detection Compared to the Human
Eye and Standard Cameras

**8 Days
Earlier**

Warning Before Affliction Became
Visible in Powdery Mildew Testing

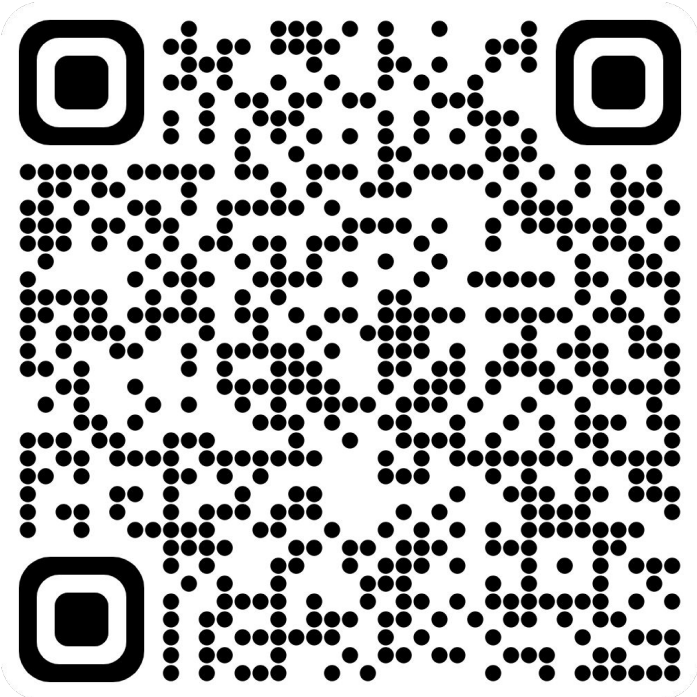
**96%
Accurate**

For Powdery Mildew, Nutrient Stress
and Water Stress Detection



Demonstrated during rigorous development with AGR's® academic partner, Virginia Tech

Can You Beat Spectre®? Take the Quiz to See How it Works:



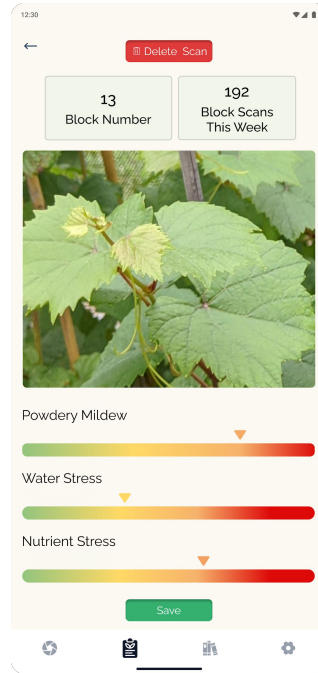
<https://forms.gle/T798hTs7bKWv1M6UA>

You Press the Button, We Do the Rest

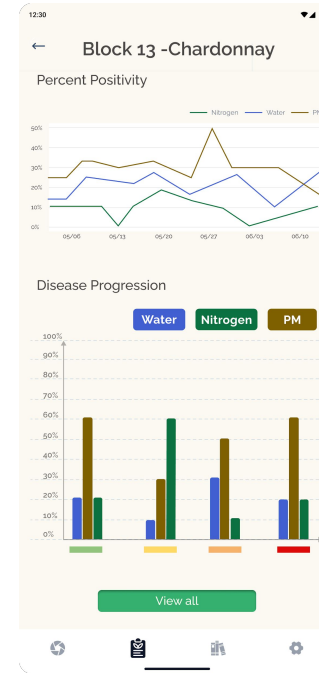
Scan with Live AI



Receive Instant Results



Act on Block Trends





2

Instant Result

Get notified of afflictions on the spot, before they are visible. Early detection of Powdery Mildew, water stress and nutrient stress is complete with viral diseases like leaf roll under development.

1

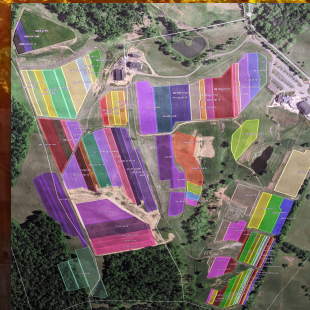
In-Vivo Scan

Don't change the way you scout. Simply scan live leaves as you walk the field or drive an open-air ATV. Capturing a scan is like taking a photo with your phone - Anyone can do it.

Solution Planning

Time & target solutions more effectively by catching afflictions before they spread. This reduces the cost, operational disruption & degradation of terroir quality caused by over-spraying.

3

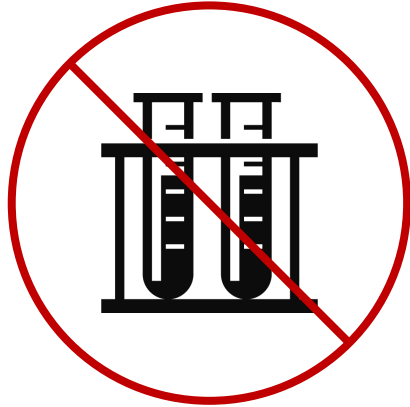


Targeted Mitigation

Apply solutions when & where needed for individual blocks. Spectre's® return on investment (ROI) should be realized in the cost of 1 - 2 sprays, not counting the potential for increased yield.

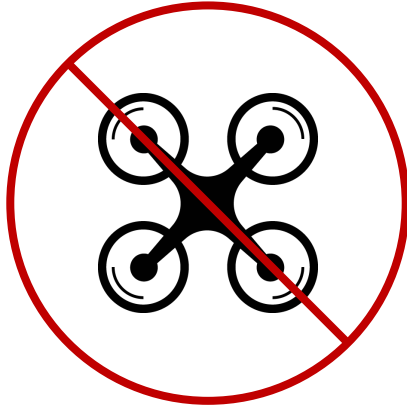
4

The AGR® Advantage



Unlike Lab Tests:

- ❖ Receive results in seconds, not weeks
- ❖ Take unlimited samples, not restricted by pricing
- ❖ Take scans on the vine, no sample degradation



Unlike Drones & Aerial:

- ❖ Do it yourself, no license or expert operator required
- ❖ Sample deep into the canopy where problems start, not just the top layer



Unlike Weather Indices:

- ❖ Assess the problem itself, not just the risk
- ❖ Achieve leaf-level precision, beyond farm or block averages

Made by the Best, for the Best



Virginia Tech's Cooperative Extension and
World-Renowned Viticulturists



National Science Foundation



Designed and Manufactured in the USA

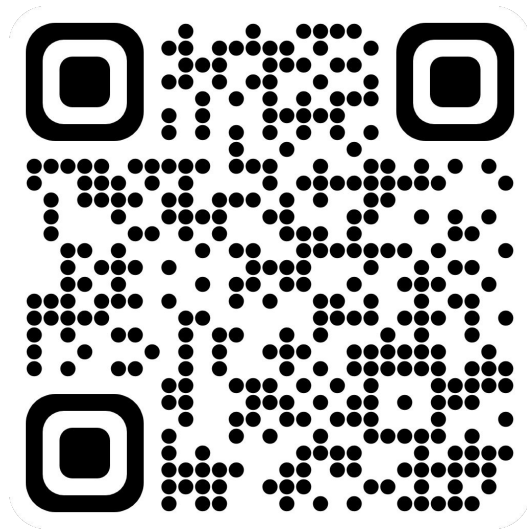


University of Rochester's
Institute of Optics



National Institute of
Standards and Technology

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<https://www.agrsensors.com/field-pilots>

Or contact us for questions:
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