



# Total Vineyard Intelligence. One Simple System.

- Irrigation Management
- Weather & Crop Monitoring
- Sustainability Initiatives
- Early Pest & Disease Identification
- Labor Planning
- Spray Timing

Arable is the only monitoring system to combine in-field weather, plant, soil, and irrigation data with advanced modeling and machine learning for real-time visibility and insights into your vineyard—all in one single, easy-to-deploy solution.

## ► Make the right decisions, at the right time

- Optimize irrigation, spray timing, and nutrient applications
- Identify early signs of vine stress, pests, and disease pressure
- Maximize labor resources and operational efficiency

## ► A complete irrigation and spray timing solution

- Enhance irrigation strategy with integrated ET, soil moisture, weather, growth stage, and plant health data
- Track actual irrigation amounts and run times for precision irrigation monitoring
- Ensure effective spray applications with timing windows based on customized settings, environmental conditions, and crop growth stage

## ► Real-time canopy-level insights at your fingertips

- Access your data anytime, anywhere via a robust web platform, user-friendly mobile app, custom dashboards, and seamless API
- Mitigate risk and improve planning with field-level forecasts and customizable alerts
- Remotely monitor vine health with built-in 5MP camera



# More Insights. Less Hassle.

## Better decisions have never been so simple.

### ► Simple

- Installs in under 5 minutes with one-button activation
- Lightweight and portable
- Maintenance-free with no moving parts
- Cloud-based data storage; no data logger required

### ► Reliable

- Solar powered with long-lasting battery
- High-powered antenna and robust cellular connectivity to monitor remote locations
- Farm-tough durability; IP67-rated for protection against water and dust ingress

### ► Complete

- Pre-integrated sensor suite for comprehensive environmental and plant data collection
- 22 narrow-band spectrometer to monitor plant health
- Built-in 5MP camera for daily contextualized crop photos
- Ultrasonic wind anemometer
- Seamless integration with third-party sensors



## Arable: A Single System for All Your Vineyard Data

### Weather

Temperature  
 Precipitation  
 Pressure  
 Relative Humidity  
 Solar Radiation  
 Wind Speed & Direction\*  
 Vapor Pressure Deficit  
 Sunshine Duration  
 Dew Point Temperature  
 Sea Level Pressure

### Plant

Daily Crop Images  
 Evapotranspiration (ET<sub>o</sub> & ET<sub>c</sub> & Replacement ET<sub>c</sub>)  
 Growing Degree Days  
 Growth Stages  
 Leaf Wetness  
 Crop Water Balance  
 Crop Water Deficit  
 Heat Stress  
 Chill Hours  
 Chlorophyll Index  
 NDVI  
 KC<sub>NDVI</sub>

### Soil & Irrigation

Soil Moisture\*  
 Soil Temperature\*  
 Soil Salinity\*  
 Irrigation Start & End Times\*  
 Total Irrigation Run Time\*  
 Last Irrigation Run Time\*  
 Applied Irrigation\*  
 Proximity to Refill Threshold  
 Irrigation to Replace ETC

\*Requires auxiliary sensor