



Roots play a vital role in crop and orchard health but are challenging to measure using above-ground indicators.

Because root-growth dynamics change seasonally and respond rapidly to various biotic and abiotic stressors, improved visibility and accessibility to roots throughout the growing season is key to improving crop management practices.



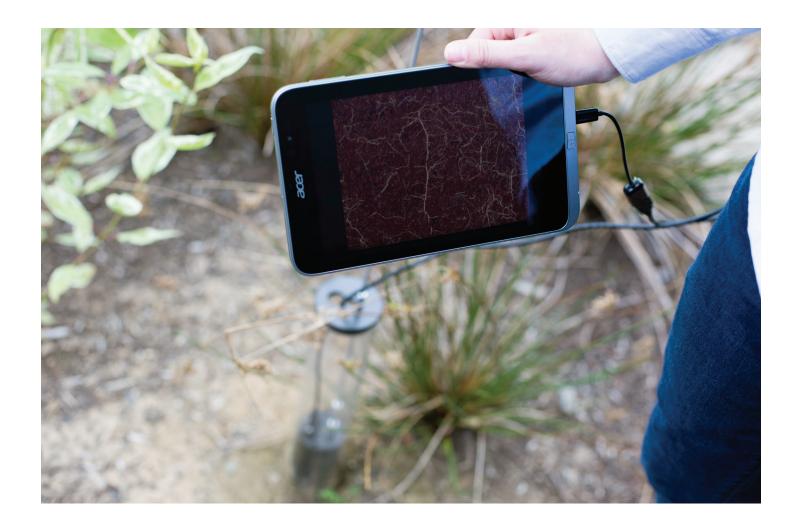
Non-destructive root images show a variety of features including root system architecture, timing of new growth or dormancy, root length or depth, mycorrhizal root tips, fungal infection, and parasites or nematode cysts.

Installing clear, plastic tubes throughout the field provides growers with a way to track changes to root systems in response to:

- ▶ Fertilizer application
- Watering schedule
- Root die-back from disease
- Parasitic nematode attack, mycorrhizal inoculation







The CI-600 In-Situ Root Imager

Agricultural professionals use our CI-600 In-Situ Root Imager to:

- ► Take non-destructive, high-resolution digital images of roots systems underground
- Observe the development and function of a plant's root system over time
- ► Track establishment and rooting of new crops throughout the growing season
- Detect and diagnose plant pathogens and disorders before changes are visible above ground
- ► Time soil amendment applications with root flush

