GENEVIDE

Mobile Monitoring Platform for Major Plant Pest Outbreaks

Integrated configurations and core field workflow

Three integrated configurations



Dedicated service vehicle

Up to 5 people. Multi-day, multi-site field quarantine operations. For personnel transport and equipment transfer.



Dedicated testing vehicle

Up to 5 people. Multi-day, multi-site field quarantine operations. For personnel transport and in-vehicle testing.



Mobile kit

Up to 3 people. Short-distance, single-site field quarantine operations. Transport must be arranged separately.

Core field workflow

Patrol - Sample - Preliminary identification - Test



Portable drone

Field mapping data and field photos

Navigate to abnormal locations



Sampling toolkit

Sample information and photos

Collect, photograph and label samples



Quarantine pest and disease identification app

Preliminary identification results

Suspected disease

Suspected insect pest



Portable rapid nucleic acid testing instrument

Test data



Stereo microscope

Microscope images



Mobile quarantine data management terminal

Equipment applications and recommended configurations

EQUIPMENT / CONFIGURATION / APPLICATION	
	**Portable rapid nucleic acid testing instrument** **Standard** Rapid testing and screening of quarantine pests and diseases in fields, vehicles and laboratories.
	**Portable drone** **Standard** Survey and map fields; mark abnormal locations to guide sample collection.
	**Mobile quarantine data management terminal** **Standard** Collect and view images and data from terminals; photograph samples and support preliminary pest and disease identification.
	**Sample collection toolkit** **Standard** Collect field insect pests and samples from diseased plants.
	**Stereo microscope** **Standard in testing vehicle** Morphological observation, identification and imaging of insects.
	**Quarantine insect pest collector** **Standard in testing vehicle** Rapid field collection of different types of insects.
	**Field patrol robot** **Optional** Patrol fields for pests and diseases; transmit patrol routes, field photos and videos.
	**DSLR camera with macro lens** **Standard** Close-up field images and distant panoramic photos.

EQUIPMENT / CONFIGURATION / APPLICATION	
	**Portable smart codling moth monitor** **Optional** Rapid field trapping, collection and identification of codling moths.
	**Portable smart fruit fly monitor** **Optional** Rapid field trapping, collection and identification of fruit flies.
	**Portable spore sampler** **Optional** Rapid field spore collection; use with rapid nucleic acid testing to determine the disease type.
	**Smart codling moth monitor** **Optional** Long-term monitoring of codling moth occurrence over time.
	**Smart citrus psyllid monitor** **Optional** Long-term monitoring of citrus psyllid occurrence over time.
	**Smart red imported fire ant monitor** **Optional** Long-term, real-time monitoring of red imported fire ant activity.
	**Remote field monitor for quarantine diseases** **Optional** Long-term crop-growth monitoring and preliminary assessment of pest and disease occurrence.

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