



FARMDOCTORS[®]

CAPABILITY STATEMENT





Company Profile



Our Mission

Farm Doctors is a precision agriculture company that delivers paddock operations support, crop health monitoring, positioning and data analytics products and services, aiming at causing a positive impact in the global food system by creating a continuous improvement cycle based on better use of land and data intelligence.



What Set Us Apart?

We think Farm Doctors is different because we truly value software aided operations planning (as an efficient way to explore different scenarios and save resources), positioning accuracy, the right balance between high-resolution and high-frequency crop assessment, and the exceptional power of combining different layers of information to support informed decisions.



Our Origins

Farm Doctors is part of Mangoesmapping Holdings, leveraging more than 80 years of collective geospatial and remote sensing expertise in Australia. Our founder, Alistair Hart, is one of the most active members of the Far North Queensland geospatial and remote sensing community. At the core of his professional life exists a true motivation of delivering a sustainable future for everyone.

FARM DOCTORS
FOCUSES ON OUR
CUSTOMER NEEDS.

FARM DOCTORS
WORKS WITH
YOU TO MAKE
ADOPTING DIGITAL
TECHNOLOGY AS
EASY AS POSSIBLE.

Our Products

Farm Doctors was born in the field and grew from a strong experience base in field data collection and management, so we know you depend on your gear and expect it to work every time you're in the field. That's why we only offer solutions that have been proven in paddocks around the world, by people just like you.

Authorised Reseller in Australia



The complete digital agronomy solution.

Identify, analyse and treat early signs of crop threats to make informed decisions, lower costs and maximise yield.



Precision Farming. Upgraded.

Optimise AB lines and adaptive curves according to your machinery and land topography. Plan variable rate application. Export configuration to all major auto steering systems.



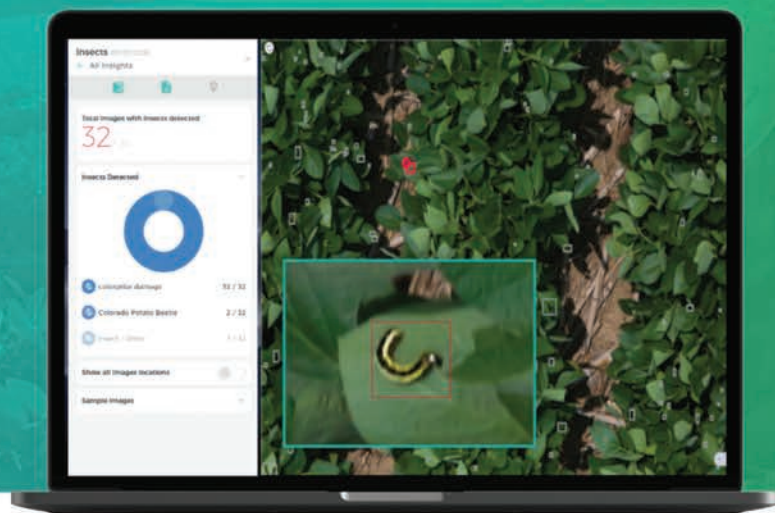
RTK GNSS receivers for navigation accuracy.

Precise coordinates over Bluetooth/Wi-Fi to your tractor navigation app. Compatible with the RS232 interface for easy connectivity with auto steering systems.



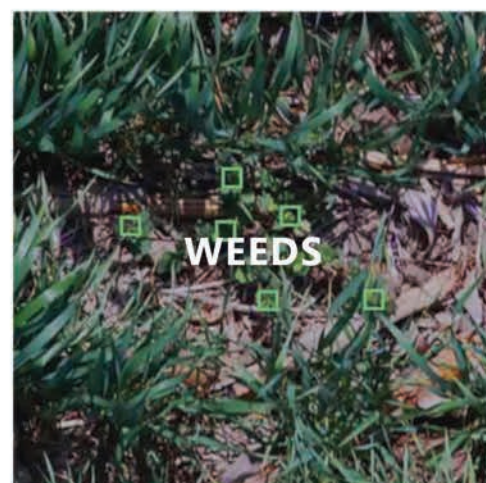
Precision Spraying Solutions.

Apply pesticides and herbicides only where they are needed. Avoid soil compaction and cross-contamination. Up to 3 Km control range and 6 hectares covered per hour. Are you ready for the future?



This is how precise your crop insights get with Taranis

Protect your crops with submillimetre resolution aerial imagery and analysis at the most critical growth stages throughout the season.



Taranis automated scouting technology delivers real time insights at leaf-resolution. It enables farmers to make informed decisions by detecting early symptoms of weeds, uneven emergence, nutrient deficiencies, disease or insects, water damage and machinery problems. All insights are delivered to you through a comprehensive platform, with clear indications of severity levels and sample images directly from the field.

DESIGN BEAUTIFUL PRECISION AGRICULTURE PROJECTS



AgroCAD is the most powerful desktop software for auto steering operations planning and configuration. Any land extension. Any number of tractors. Any crop type.



PLAN GUIDANCE LINES

Quickly analyse your land topography and design the best possible AB lines or adaptive curves for your paddocks.



EXPORT CONFIGURATION

Export guidance lines and variable rate configurations to the format supported by your field machinery.



VARIABLE RATE APPLICATION

Manage variable rate application workflows, from soil sampling to variable rate implements configuration.



MONITOR THE OPERATION

Compare planned versus executed tracks and monitor the effectiveness of your auto steering operation.

AgroCAD data is compatible with:



EMLID

REACH RS2

Datasheet



Key features

- Tracks GPS/QZSS L1C/A, L2C GLONASS L1OF, L2OF BeiDou B1I, B2I Galileo E1-B/C, E5b
- Fast RTK convergence
- Multi-feed antenna with multipath rejection
- 868/915 MHz LoRa modem for up to 8 km connectivity
- Global 3.5G modem
- 22 hours on 1 charge
- NTRIP and VRS support, works with RTCM3
- Logs RINEX at update rate up to 20 Hz
- 16 GB of internal storage
- IP67, water- and dustproof

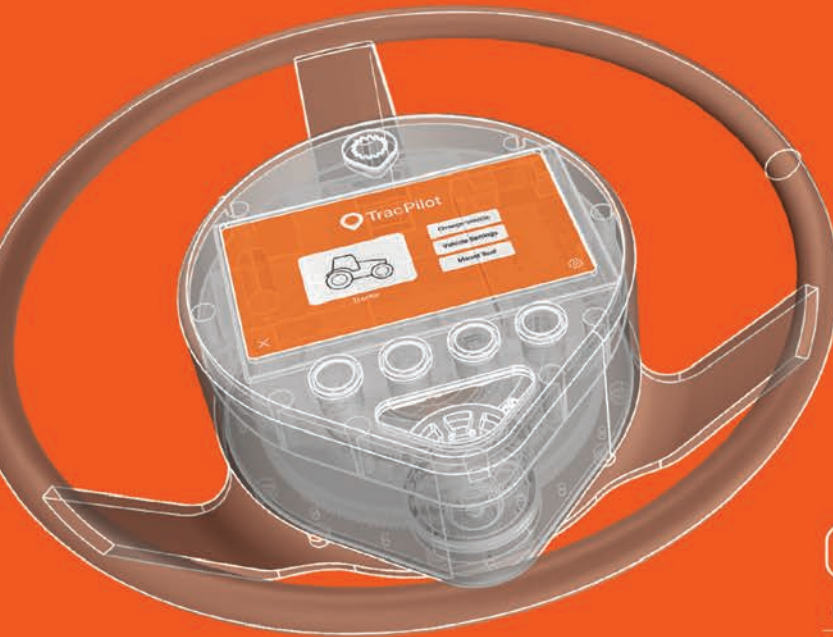


TracPilot

First interchangeable autopilot

Highly advanced and affordable

Easy to install, set up and use



TracPilot

Supply Voltage	12VDC to 40VDC
Accuracy	2cm
Housing	Die cast Aluminium
Speed	0-30km/h
Corrections	NTRIP, VRS, RTCM3
Signal Tracked	GPS, GLONASS, BeiDou B1I, B2I, Galileo

TracBase

Protection class	IP67
Housing	Die cast Aluminium
Connectivity	LoRa, 3.5G modem, Wi-Fi, Bluetooth, Serial
Position output	NMEA, LLH/XYZ
Corrections	NTRIP, VRS, RTCM3
Signal Tracked	GPS, GLONASS, BeiDou B1I, B2I, Galileo

Vehicle Types


Tractors: 2 wheel drive, Front-wheel assist, 4WD articulated
Sprayer, Combines, Floaters, Trucks, Mowers, Other vehicles

info@tracpilot.com

tracpilot.com



Made in Austria 

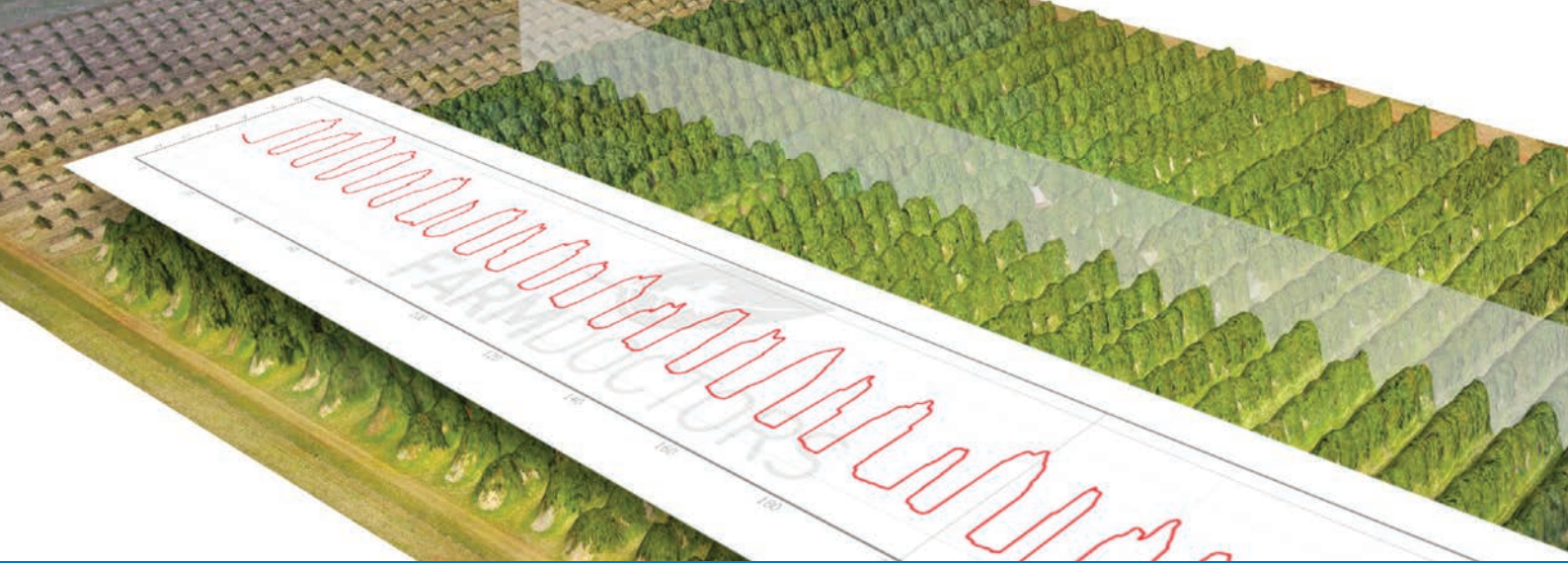
Swiss drive 

Toolless Quick Lock

Interchangeable in seconds

Single connector

Second screen available



Our Services

Farm Doctors is committed to exceeding customer expectations. Our expertise leveraging your data delivering benefits to you. To ensure our clients receive the best project outcomes and value for money, we work remotely from our offices where practical and alongside your workforce where required.

Farm Doctors assists our customers with a wide range of related services including:

Crop Productivity Solutions

- Machine Guidance Solution
- Crop Health Assessment
- Crop Uniformity Report
- Crop Data Intelligence
- Weed Detection

Farm Mapping

- Pastoral Property Mapping
- Freshcare Accreditation Horticulture Mapping
- Asset Data Collection

Topography

- Aerial Imagery
- 3D Terrain and Landscape Modelling
- Surface Water Drainage Modelling

Farm Management

- Farm Worker Safety Monitoring
- Fleet Tracking (Mobile and Satellite)
- In-Field Video Surveillance
- RTK GNSS Network Management
- Geospatial Data Collection, Cleansing and Enrichment
- Geospatial Database Creation and Administration
- GIS Software Customisation, Integration, Deployment and Training
- GIS Bureau Service, Providing Remote Services and Support for Rural and Remote Properties



Our Track Record

Our ability to deliver high quality projects that not only meet client expectations, but often exceed them, has earned our team recognition from peak industry bodies and clients in recent years.

Farm Doctors has successfully worked with growers of all sizes, all levels of government, and major organisations. These include:

Growers

- Golden Triangle Avocados
- Shaylee Strawberries
- Natural Evolutions
- Ferraro Farming
- Serra Farming
- Toohey Farms
- James Markotitch

Industry

- Drummond & Etheridge (New Zealand)
- Collective Logic
- Northern Australia Water Strategies
- QUBE Logistics
- InFarm
- Innisfail District Canegrowers
- Total Eden

Government

- Department Agriculture and Fisheries
- Department of Agriculture and Water Resources
- Agriculture Victoria

Environmental

- Greening Australia
- South Endeavour Trust
- Land Solution Australia
- Pendoley Environmental
- Astron Environmental Services

Research and Development

- The School For Field Studies
- University of Tasmania
- Ingham State High School
- Tasmanian Institute of Agriculture



Featured Project

Low Cost Machine Guidance

Forming Precise Beds for Strawberries with the Emlid Reach RS2

Shaylee Strawberries supply fresh strawberries to retailers on the Atherton Tablelands (QLD, Australia). The owner, Joe Barletta came to Farm Doctors late in 2019 with a question: “Is there any way I can prepare straight beds for my strawberry plants, without spending big dollars on a machine guidance solution?”.

We discussed Joe’s compact strawberry farming operation, which occupies only 4 hectares, and his challenge of investing significant sums on machine guidance hardware for relatively small machinery. We reviewed what affordable options were available to him at short notice.

As a reseller for the increasingly popular Emlid Reach RS2 GNSS RTK receiver, Farm Doctors prepared a machine guidance solution using a digital lightbar Android app for Joe, including his very own GNSS RTK base station, without costly annual subscriptions.

Joe was working under such time pressure, that he ended up forming up some of the beds at night. They had never done that at the strawberry farm before, and Joe said he could only do this because he had the lightbar solution on his tractor.





Our Commitment

Farm Doctors brings access to cutting-edge digital agriculture products together with world class geospatial services, helping you to boost productivity and deliver organisational efficiencies.

We're focused on delivering authentic customer service and selecting the right combination of products and services to drive value for money and increased profitability for every individual customer.

Farm Doctors staff pride themselves on developing innovative, creative and value-led unconventional solutions to unique challenges faced by our customers.

With our rich experience in field data collection, engineering data cleansing and management, systems integration and software training, Farm Doctors has successfully implemented many significant client projects. Will yours be next?

Social Responsibility Statement

We are motivated by the need to deliver a sustainable future for all citizens. We also understand that high quality spatial technology can help all people by visualising issues surrounding financial, asset and environmental sustainability, and enabling evidence-based decisions by leaders.

Farm Doctors is a commercial company with the community at heart. All of our employees give their time in service to the community in many different forms and we're proud to invest some of our profits to support community activities in Australia.

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FarmDocs



Farm-Doctors

