TMS TreeScout®

A revolution in autonomous orchard precision

A unique sensor system, specifically designed to boost profitability and maximize sustainability for apple & pear growers. The TreeScout® enables precision orchard management on individual tree level for all the major agronomic actions such as thinning, growth regulation, fertilizer application and yield estimation.

Technical Product Specifications ⟫ Comprehensive data sheet

Functional

- Blossom mapping, vigor mapping and fruit load mapping
- 8 km/hour driving speed
- User interface over ISOBUS

Technical

- Dimensions (LxWxH cm): 67 x 35 x 23
- 10 - 25 W
- 12 V
- Power-off through in-cab terminal
- Possibility to be powered to existing ISOBUS wiring or supplied by Aurea

Connections

- ISOBUS capable
- RTK-GPS integration over Ecomate CANBUS connector
- WiFi & LTE connectivity

Processing Unit

- NVIDIA Jetson Orin NX
- 16 GB RAM
- GPU: 1,024-CORE NVIDIA® Ampere™ architecture with 32 Tensor Cores @918Mz

Support Hardware

- Optionally supplied with Kverneland Tellus GO + 7" ISOBUS Terminal
- Supplied with 4G modem and additionally WiFi hotspot for remote regions
- Mounting based on quick release plate for easy mounting directly on a flat tractor cabin through brackets for all major brands

Functionalities & Benefits

- High resolution & horizontal viewing camera system designed for orchards
- On-board, real-time processing limiting the need to upload large volumes of raw data
- Autonomy for the fruit grower - fully in control of your own data collection & processing
- Intuitive cloud platform for easy data viewing and prescription maps creation for most major tractor, RTK-GPS and machinery manufacturers

Aurea
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