

GPS TECHNOLOGIES

ADVANCED SYSTEMS

INNOVATIVE SERVICES

ARVA



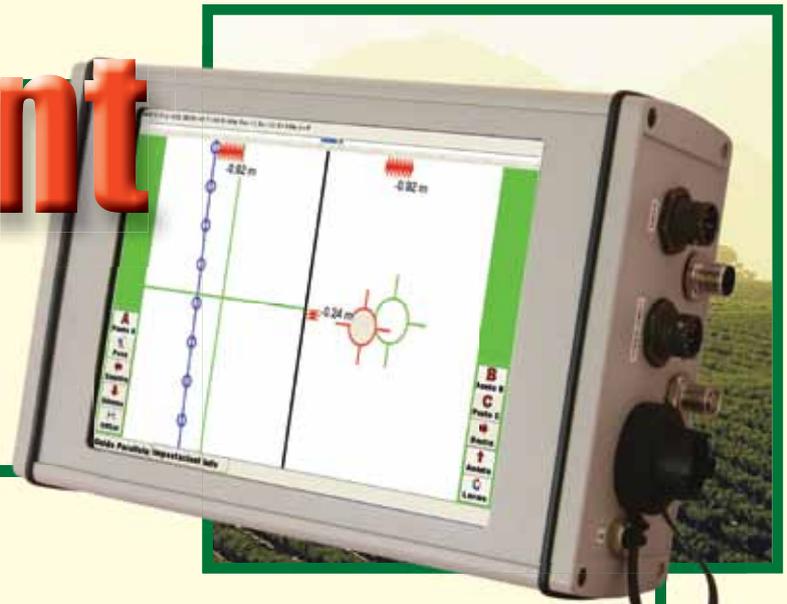
AGRICULTURE

ENVIRONMENT

BUILDING

ARVAplant

Centimeter satellite guide for transplanting



GPS system to transplant automatically reducing working times from 30% to 40%

GPS +/- 1 cm • Automatic control

ECONOMIC BENEFITS

- Significant reduction of time planting, up to 40%
- Reduction of workers
- Draw more accurate estimates thanks to ARVACADplant software
- A single RTK reference station can operate with more planting machines

TECHNICAL BENEFITS

- Operate on hilly fields without moving the base everytime
- It doesn't require eye contact between machine and base station
- Working without preliminary square of the fields
- No error accumulation
- Perfect alignments also in changing slope conditions
- Working in both planting directions
- Adaptable to any machine



VINEYARDS



ORCHARDS



VEGETABLES

MAIN COMPONENTS



Vehicular PC with 8.4" touch screen display and integrated GPS RTK receiver. This solution reduces to a minimum wiring and makes easier to move it in different tractors.



Controlbox to control cross alignment with dual axis inclinometers, radio modem, installation kit to perform the automatic positioning of every single plant without wire (optional).



RTK GPS base station with integrated radio modem and GPS antenna.

HOW ARVAPLANT WORKS

ARVApant is very easy to use. It's enough to position the machine in correspondence with the first line of plantation and to memorize the strating and the ending points of the first row. The software automatically will calculate the square of the field and will keep the machine perfectly aligned on all following rows. In the full version it can be able to perform the automatic positioning of each individual plant operating in both directions. It can save and resume interrupted works in any time without losing the previous alignments.

BENEFITS

ARVApant reduces of 30% -40% the necessary working time increasing the level precision and work quality on flat and slope fields.

PC FEATURES

Memory Microprocessor: 1 Ghz

Memoria: 512 MB RAM

Compact Flash: Type 2 1 GB

Display: TFT, 8,4" high contrast, SVGA 800x600, 400 candles.

Touch Screen: Resistive

Operating System:
Windows XP embedded

Dimensions and weight: L. 220 mm, L. 170 mm, H. 85 mm - 2 kg

Operating Temp: 0 °C + 50 °C

Storage Temp: -20 °C + 60 °C

Degree of protection:
shock and breakage, IP 65

Relative Humidity: 95%

GPS FEATURES

Receiver
GPS double frequency RTK (GLONASS optional)

Channels: 48 parallel

Update frequency: up to 20 Hz

Horizontal accuracy in RTK:
+/- 1 cm

Vertical accuarncy in RTK:
+/- 2 cm

Reacquisition time:
< 1 sec.

Differential Correction:
RTK with Reference Station

DEALER

ARVA
tec

Viale dei Kennedy 87/a
20027 Rescaldina (MI)
Tel. 0331 464840
Fax 0331 579360
www.arvatec.it
info@arvatec.it