



Services, Technologies, Informatic Systems for
Agriculture and Environment

www.arvatec.it

VEHICULAR PC FOR GPS PARALLEL GUIDANCE

ARVAnav PC is a unique GPS system for PARALLEL GUIDANCE developed on a rugged PC with Windows XP Embedded Operating System



Accuracy \pm 15-20 cm

- **GPS INTEGRATED PC, small antenna**, resistant to dust and humidity, handable, with the RAM coupling support system, wiring reduced to minimum, easily replaceable from a vehicle to another.
- **USER FRIENDLY NAVIGATION SOFTWARE** for low-experience operators due to the **5,7" TOUCHSCREEN**
- Variable accuracy from +/- 15 cm to +/- 1 cm depending on the needs of the user
- **MULTIFUNCTIONAL** due to Windows XPE Operating system which permits to run other software for example to record on the field the cultural operations (see FarmWorks).
- **CHEAP AND COMPLETE !** Allows you to work both on parallel and curvilinear traces, to measure surfaces, control and correct works and download data through the USB door.

PC ARVAnav

How does ARVAnav work?

ARVAnav2 is simple to use: once memorized two reference points, **ARVAnav2** will drive on parallel traces performing and memorizing all the operations. On irregular fields **ARVAnav2** can work with curvilinear and circular traces ! **ARVAnav2** allows to record stop-positions giving the operator the chance to go back to the farm or at the border of the field to restock and restart his work from the exact point

Parallel guidance software ARVAnav

- Work on AB line;
- Work on curvilinear traces;
- Surfaces measurement;
- Graphic display of the treated areas;
- Graphic display of the heads;
- Unlimited recording capacity of done works;
- Unlimited recording capacity of reference lines;
- Loading and repetition of already done works;
- Work statistics (treated area, drive error, covered distance, work speed);
- Stopping-points memorization.

GPS receiver's features

- Channels : 12 parallels
- Energy supply : from 9VDC to 26VDC;
- Absorbing : 6 Watts
- Operating temp. : da -30°C a +70°C
- Update frequency : 1 - 20 Hz
- Accuracy Waas/Egnos : +/- 15 cm
- Recollection time L1 : < 1 sec.
- Cold start activation time : 60 s.
- Hot start activation time : 15 s.
- Weight : 0.18 kg max.
- Free EGNOS-WAAS differential correction .
- E-Diff auto differential correction option

What is ARVAnav for ?

ARVAnav2 allows to draw a virtual path on your fields, displaying the traces to follow and the already treated plots.

It is essential for :

- Treatments in rice field, specially seeding, fertilizing and spreading;
- Treatments in those situations in which is difficult to orientate (es. bare soil operations, night-time operations, low visibility...);
- Tresh: permits to subdivide big fields in plots that are multiple of the pickup avoiding losses of time due to passages with empty pickup;
- Ditches tracing.

ARVApC's technical features

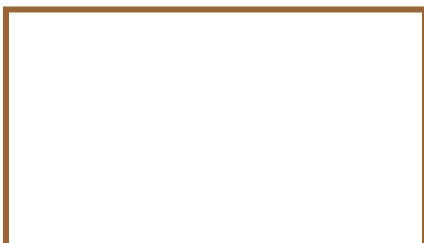
- Microprocessor : AMD Geode LX800 – 500 Mhz
- Memory : 512 MB RAM
- Compact Flash : Type 2 up to 2 GB
- Micro Drive : up to 8 GB (optional)
- Display : TFT, 5,7" high contrast, SVGA 800x600, 400 candlepower. .
- Reading angles : +60°/-60° horizontal;
+35°/-35° vertical
- Touch Screen : Resistive
- Operating system : Windows XP embedded
- Acoustic detector : Internal
- Power consumption : 25W typical, 30W Max
- Power supply : 9 – 26 VDC
- Dimensions : 240mm, 170 mm, 85mm
- Weight : ca 1000 g
- Operating temp. : 0 °C + 50 °C
- Storage temp. : -20 °C + 60 °C
- Protection level : Resistant to bumpings and falls, IP 65
- Relative humidity : 95%

ARVApC's interfaces

- Wireless interface: WI-FI 802.11b* – 11 Mbps, Bluetooth™ with USB *
- Wired interface : Ethernet *
- Internal interface : 4 RS232, 2 USB, Slot PC104, IDE, Parallel and VGA

ARVatec s.r.l.

Retailer:



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