VEHICULAR PC FOR GPS PARALLEL GUIDANCE

ARVAnav2 PC is a unique GPS system for PARALLEL GUIDANCE developed on a rugged PC with Windows XP Embedded Operating System
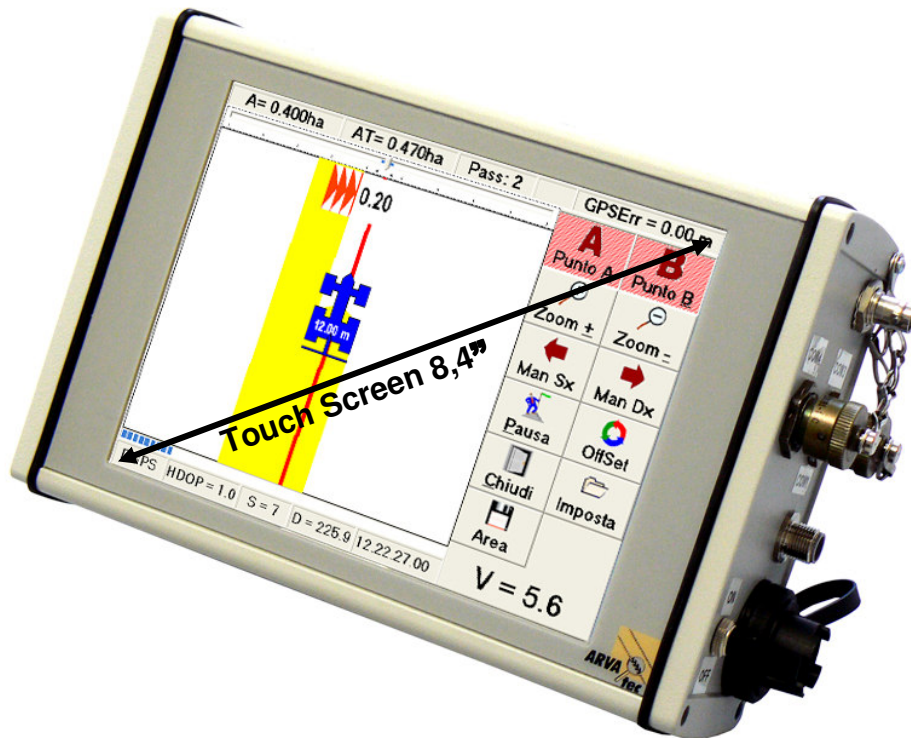
PC ARVAnav2

- 🔴 **GPS INTEGRATED PC, small antenna**, resistant to dust and humidity, handable, with the RAM coupling support system, wiring reduced to minimum, easily replaceble from a vehicle to another.
- 🔴 **USER FRIENDLY NAVIGATION SOFTWARE** for low-experience operators due to the **8,4" TOUCHSCREEN**
- 🔴 Variable accurancy 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).
- 🔴 various additional modules, *AUTOMATIC PILOT, HILL-GUIDANCE, MAPPING, VRT*

What is *ARVAnav2* 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. bared 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 dued to passages with empty pickup;
- Ditches tracing.

Parallel guidance software ARVAnav2

- Work on AB line;
- Work on curvilines traces;
- Surfaces measurment;
- Grafic display of the treated areas;
- Grafic display of the heads;
- Illimitated recording capacity of done works;
- Illimitated 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 features

Channels	: 12 parallels
Energy supply	: from 9VDC to 26VDC;
Absorbing	: 6 Watts
Operating temp.	: da -30°C a +70°C
Update frequence	: 1 - 20 Hz
Accurancy 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
- L-Diff RTK single frequence option (accurancy +/- 5 cm).
- RTK double frequence option option(precisione +/- 1 cm).

How does *ARVAnav2 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 curvilines 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.

ARVApc's thechnical features

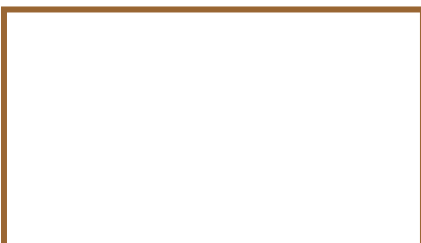|	
• Microprocessor	: AMD Geode LX800 – 500 Mhz
• Memory	: 512 MB RAM
• Compact Flash	: Type 2 up to 2 GB
• Micro Drive	: up to 8 GB (optional)
• Display	: TFT, 8,4" high contrast, SVGA 800×600, 400 candle.
• Reading angles	: +60°/-60° horizontal; +35°/-35° vertical
• Touch Screen	: Resistive
• Operating system	: Windows XP embedded
• Acoustic detector	: Internal
• Power consumption	: 25W tipical, 30W Max
• Power supply	: 9 – 26 VDC
• Dimensions	: 240mm, 170 mm, 85mm
• Weight	: ca 2000 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%

Optional guidance modules

- Automatic parallel guidance;
- Automatic boom sections control *
- VRT (variable distribution herbicide / fertilizers) *
- Cultures mapping *   * under developing

ARVApc's interfaces

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

          * under developing

Retailer :