



**Services, Technologies, Informatic Systems  
for Agriculture and Environment**

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## **3D GPS positioning system for dredging ships with wired- crane**



***Displays instant position of the ship and of the  
crane's hook on the project***

### **Ship's components**

- Industrial PC ARVApc with 8,4" high contrast Touch Screen. Operating System Windows XP embedded, level of protection: IP67, resistant to falling and bumpings with radio-modem integrated for the communication with the crane's ARVApc;
- Double antenna GPS receiver WAAS/EGNOS;
- Customizable Software ArvaShip

### **Crane's components**

- Industrial PC ARVApc with 8,4" high contrast Touch Screen. Operating System Windows XP embedded, submetric GPS integrated WAAS/ENGOS, decimetric Omnistar HP or centimetric RTK level of protection: IP67, resistant to falling and bumpings with radio-modem integrated for the communication with the ship's ARVApc ;
- Second receiver GPS WAAS/EGNOS with directional function ;
- Customizable Software ARVAgru;
- Optional depth sensor.

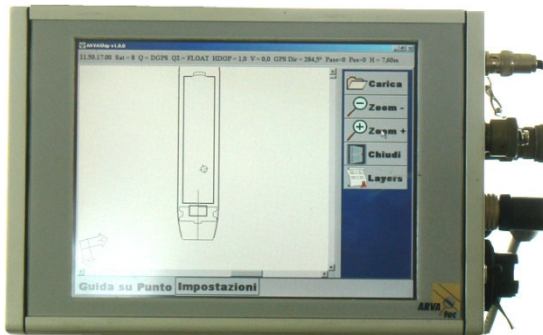
**ARVAShip**

## Standard configuration

- **Microprocessor** : AMD Geode LX800 – 500 Mhz
- **Memory** : up to 1 GByte RAM
- **Compact Flash** : Type 2
- **Display** : TFT, 8,4" high contrast, SVGA  
800x600, 400 nits
- **Touch Screen** : Resistive
- **operating system** : Windows XP embedded
- **power consumption**: 25W tipico, 30W Max
- **Power supply** : 9 – 26 VDC
- **Dimensions** : 270 mm, 170 mm, 85mm
- **Weight** : ca 3 kg
- **Operating temp.** : 0 °C + 50 °C
- **Storage temp.** : -20 °C + 60 °C
- **Level of protection** : resistant to fallings and bumpings, IP 67
- **Relative humidity** : 95%
- **Radio modem** : 868 Mhz, free broad

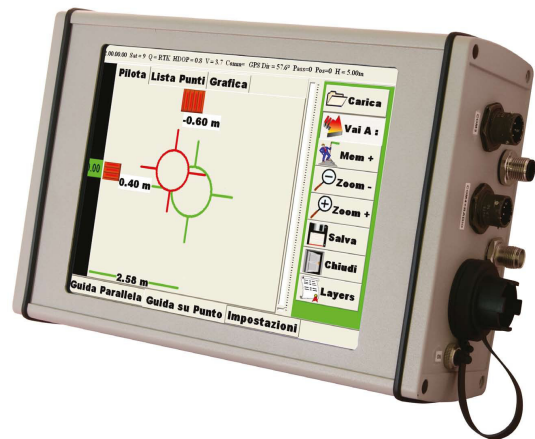
### SHIP'S GPS

- **Receiver** : single frequency L1 with code's measures and double antenna phase
- **Correction** : WAAS/EGNOS
- **Channels** : 2x12 parallel
- **Update freq.** : 1-5Hz, 10Hz optional
- **Horiz. accuracy** : 0.6 m 95% (DGPS)
- **Angle accuracy** : <0.5°
- **Auxiliary sensors** : compass, inclinometer



### CRANE'S GPS

- **Receiver** : double frequency L1+L2
- **Channels** : 12 parallel
- **Correzione** : WAAS/EGNOS, Omnistar HP
- **Update freq.** : 1-5Hz, 10Hz optional
- **Horiz. accuracy** : 0.6 m 95% (WAAS/EGNOS)  
: 0.2 m 95% (OmnistarHP)



## ARVShip advantages

- Significant increase of work productivity even operating with no reference: open sea constructing site.
- Precise reference of the absolute positioning on board of the ship and of the crane at the same time.
- Chance to plan the operations in office and to load on the ARVAPC the positioning points list.
- User friendly software.
- Operators safety guaranteed.
- Essential in all that conditions in which is not possible staking and using laser.

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