

GPS TECHNOLOGIES

ADVANCED SYSTEMS

INNOVATIVE SERVICES



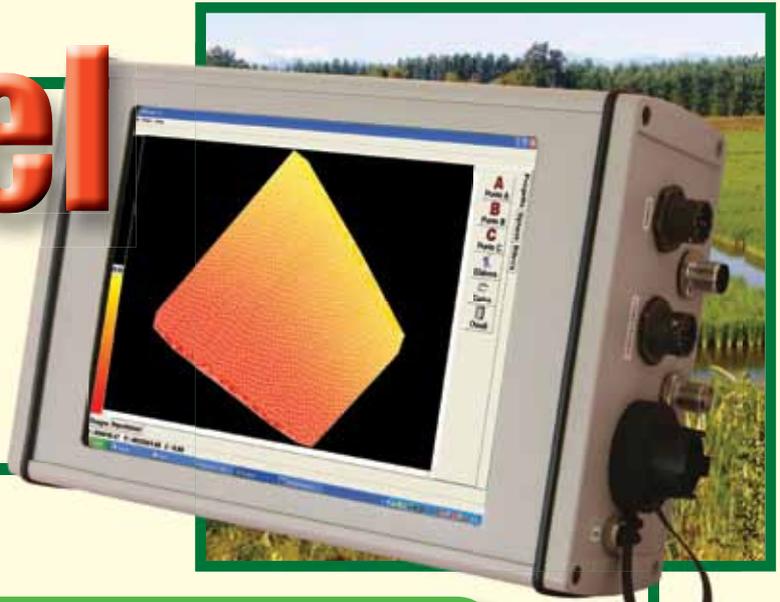
AGRICULTURE

ENVIRONMENT

BUILDING

# ARVAlevel

## Satellite system for leveling operations



**Centimetric RTK GPS for 3D survey and blade automatic control**

**GPS +/- 1 cm • Management 1-2 slopes**

### ECONOMIC BENEFITS

- Optimization of the leveling
- Cut and fill volumes to prepare more accurate estimate.

### TECHNICAL BENEFITS

- Working with a range up to 5 km from base station
- Operating on fields far from the base stations although this is not in sight
- Very robust signal and insensitive to the wind, dust and fog
- Create double slops
- Display leveling cut and fill situations and possibility to do parallel guidance



**RICE**



**CEREALS**



**HORTICULTURE**



## MAIN COMPONENTS



Board computer with 8,4" touchscreen display and integrated GPS RTK rover. This solution: reduces wiring, makes it easier to move it to different tractors and allows to graphically display earthworks.



Control box to control the blade vertical displacement with integrated radio modem. The unit has a small size (25x15x10 cm)



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

## HOW ARVALEVEL WORKS

Working with ARVAlevel is easy: just go through the field according to a grid more or less precise. The software, very intuitive, automatically logs in real time surface elevations with different colors. After the survey and setting the slopes the compensation plans is automatically calculated. The operator can start the operation of leveling while the screen will constantly update the situation.

## BENEFITS

ARVAlevel allows you to control any kind of blade eliminating the classical drawbacks of laser systems. It's possible to work according to one or two slopes in poor visibility conditions.

## PC FEATURES

**Microprocessor:** 1 Ghz

**Memory:** 1 GB

**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:** 24 parallel

**Refresh rate:** up to 10 Hz

**Working precision RTK horiz.:**  
+/- 1 cm

**Working precision RTK vert.:**  
+/- 2 cm

**Reacquisition time:** < 1 sec.

**Activation of time. Cold:** < 45 sec.

**Activation of time. Hot:** < 35 sec.

**Differential Correction:**  
RTK Base Station

DEALER

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