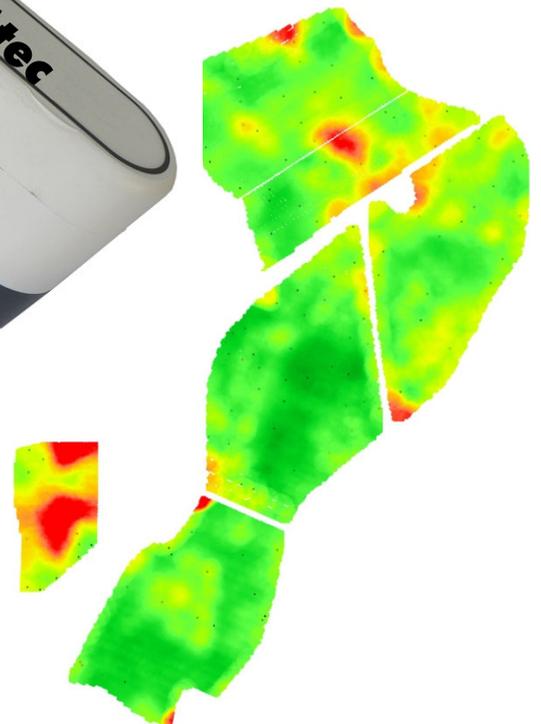
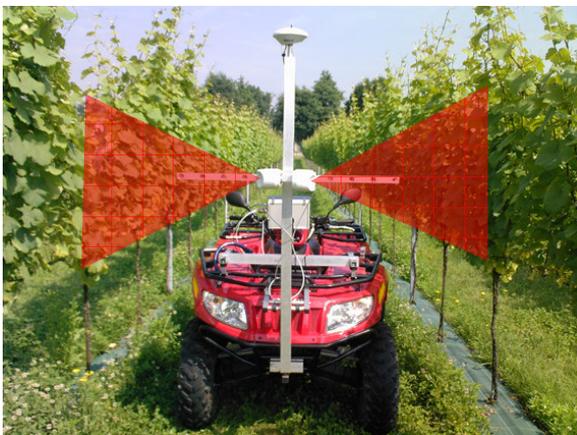




INFRARED SENSOR FOR CULTURES MEASUREMENT AND CONTROL

ARVAGreen is a sensor which can measure the vegetative vigor of the plants (NDVI - Normalized Difference Vegetation Index) to perform agricultural evaluations of crops' health and its stage of development



USES

- ☞ **Remote Sensing and agricultural researches**
- ☞ **Biomass measurement and variations of the vegetal cover**
- ☞ **Response to feedings**
- ☞ **Potential yield**
- ☞ **Impact of insects and diseases**
- ☞ **Real time variable fertilization**
- ☞ **Field crops and row crops mapping, orchards, vineyards etc**
- ☞ **Double index permits comparative analysis**
- ☞ **Data recording while performing other operations**
- ☞ **Early detecting of physiological crop's stress**

ARVAGreen

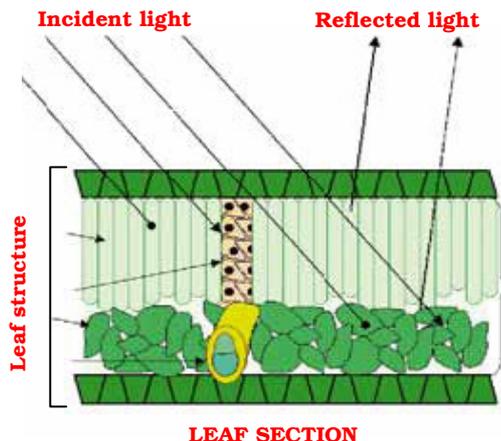
TECHINICAL SPECIFICATIONS

ARVAGreen is a modular compact system composed of one or more ACS-210 sensor and a GPS integrated data logger PC

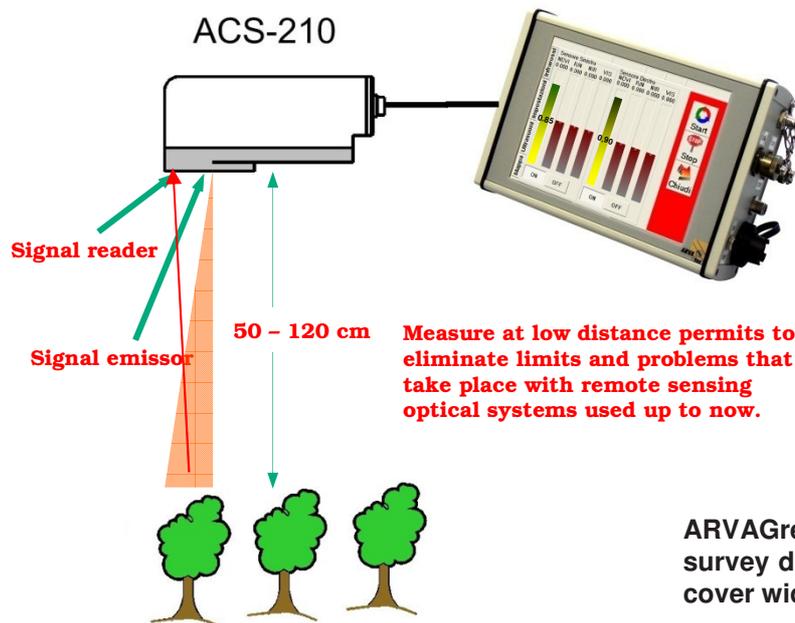
The ACS-210 receiver has moderate dimensions and a IP68 index that makes it extremely rugged and suitable to work in the most hostile conditions (L17,8 cm - W 3,8 cm – H 7.6 cm - Weight 0,385 kg).

The sensor emits an infrared light with a particular wavelength on the crop. Exploiting the property of the leaves' surface to absorb just a part of this light and to reflect the rest, it is possible to determine, with appropriate mathematical calculations, the NDVI value.

ARVAGreen works with any climatic condition, day and night, because it is not influenced by the external light.



ARVAP with GPS



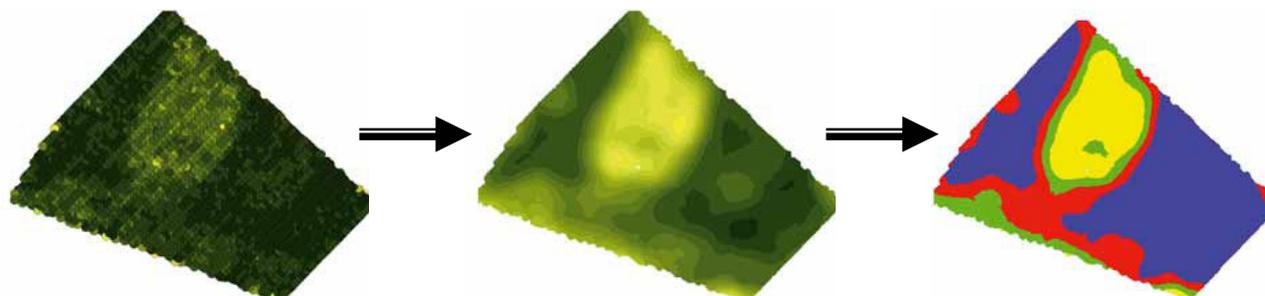
Pc data logger is a memory unit on which runs the software that elaborates the data recorded by the ACS-210. To the data logger is associated a GPS to create georeferential maps. The data logger can be both a rugged PC, such as ARVApC with GPS, both, more simply, a PocketPC with external GPS.

ARVAGreen system can be used both manually, to survey data walking, or can be installed on a vehicle to cover wide areas.

VEGETATIVE VIGOR MAPS

ARVAGreen is an advanced technology that supplies with support to analyze the status of the crop.

Elaborating the recorded data is possible to obtain vegetative vigor maps with different level of detail. By the interpretation of these maps is possible to operate in specific ways to perform, for example, a variable manure treatment (VRT) or to cut leaves with different intensity and to operate a differed harvest from zone to zone depending on different qualities.



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