SOLUTIONS IN SPECTROSCOPY

Eerbeek, 10 September 2008

Re.: ***Press Release of AVANTES Eerbeek, The Netherlands***

New AvaSpec-128 Detecor Collection Lens increases Sensitivity of Miniature Spectrometer

Avantes, a leading company in the field of fiber optic spectroscopy, has designed a new cylindrical lens for its miniature AvaSpec-128 spectrometer detector, which improves the sensitivity by a factor of 4.
The increased sensitivity combined with the high speed of this detector array (full 128 pixel spectrum in 60 microseconds) enables many applications for inline process control. The new cylindrical lens focuses the light onto the detector array, that has a pixel height of 63.5 µm.

The AvaSpec-128 is available for the VIS/NIR (350-1100nm) wavelength range and also shows a very good sensitivity in the 900-1100nm range over the 2048/3648 pixels detector arrays commonly used in diode array spectrometers.
This increased NIR sensitivity is very useful for applications in fruit sorting and water detection, where most interesting absorption signals can be found in the 900-1100nm range.

Many other applications can be found in color measurement, where 128 pixels is enough data information to provide accurate color parameters, such as L, a, b, hue, C, etc.

For complete details, pricing and specifications, please contact us at info@avantes.com or visit our website at www.avantes.com.