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### **SYSTEMS THAT LEARN HOW TO FIND THE FAULTS**

Shelton Vision Systems Ltd, based in Leicester, have developed their WebSpector® imaging machine to find structural surface and colour faults to whatever level the client requires. Using their unique self-learning system, the Shelton vision inspection system is capable of teaching itself to find errors and reporting them. The innovative WebCorder feature allows the whole set up test run to be played back. This results in a quick set up time and reduced scrap.

Stuart Speake, Associate and System Champion at W. L. Gore and Associates (UK) Ltd said, “ The system teaches itself and this has drastically reduced the time to train and validate a new product. We allow it to self-train itself until it has reached a level that is appropriate for our requirements”.

“We have thousands of different styles, which have to be set up to run. Without the tools provided by the WebSpector® self-learning system it would be a mammoth task to introduce new products”, Added Stuart.

The WebSpector® is capable of inspecting woven, non-woven, metallic, knitted, laminated, composite, coated and technical textile surfaces. It uses a combination of powerful off the shelf server grade PC technology with

sophisticated software to provide a scalable system for finding surface and colour defects. Designed for use in harsh environments the WebSpector® is capable of being used in diverse industries from textiles, rubber or plastics to sheet aluminium or steel and coated solid materials.

Stuart continued, "Overall, we have found the software user friendly. In particular, the fault tracking and statistics generator are useful. These functions enable us to control quality very tightly. And the error mapping allows us to look at and analyse exactly what is happening in our production process. It takes out the subjective-ness and de skills the process".

For further information please call Mark Shelton on 0116 275 3421 or email

[mark@sheltonmachines.co.uk](mailto:mark@sheltonmachines.co.uk)

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**Notes: -**

For further information, please contact Peter Wilkinson at: -

Panther Interactive Marketing Ltd  
45 Greenhill Road  
Coalville  
Leicestershire  
LE67 4RL  
UK

Tel No: +44 (0) 07041-471146

Fax No: +44 (0) 07041-471246

Mobile No: +44 (0) 07930-330125

Email: [peter@panther.org.uk](mailto:peter@panther.org.uk)

Web: [www.panther.org.uk](http://www.panther.org.uk)