

Maximize Profitability

Undetected defects often result in excessive costs, customer returns, repairs to sensitive equipment, and machine downtime in today's high end high web based material manufacturing. This is ever more apparent in specialized products like magnetic media, solar and fuel cell technologies. The Model 9001 MicroSpec® Web Inspection Technology provides real time detection and categorization of minute holes, microscopic pit-form (block spot), cracks, dirt, blemishes, cyclical embossments, hard bands, streaks, scratches and any other type impurities or defects. The Model 9001 MicroSpec® Web Inspection Technology helps maximize the profitability of your web manufacturing operations by providing production, maintenance, and setup personnel with immediate notification of defects and the information they need to quickly locate and correct defect producing conditions.

Reduce Production Costs

Defects such as skips, voids and streaks & scratches often result in excessive production costs in today's high-speed coating processes. Our systems provide production, maintenance, and managerial personnel with immediate notification of defect events, size, type (i.e., streak or scratch), location and probable cause. Information can then be utilized to quickly locate the defect and take corrective action to eliminate the fault from continuing. Our defect fault imaging technology will help to significantly reduce your company's costs for producing, sorting, and disposing of substandard coated products. Our systems can also help to reduce costs for customer returns, repairs to sensitive production equipment, and machine downtime.

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| TECHNICAL SPECIFICATIONS | |
| Defects Types Detected: | Pit-Form Cyclical Embossments Cracks Holes Dirt Hard Bands Streaks Scratches |
| Minimum Detectable Defect: | 1 micron |
| Maximum Web Speed: | 10,000 ft/min. (3,048 m/min) No Limit Streaks |
| Basis Weight Range: | Subject to Tests |
| Material & Color Range: | Subject to Tests |
| Line Scan Cameras: Type: Lens Focal Length: Field Of View (FOV): Maximum Data Rate: Pixel Resolution: | 1024/2048 Proprietary Lens 0.25" or larger up to 40 MHz Depending on Lens Used |
| Streak Scan Cameras: Type: Lens Focal Length: Field Of View (FOV): Pixel Resolution: | Proprietary Proprietary Lens 0.25" or larger Depending on Lens Used |
| Material Color Range: | Proprietary Proprietary Lens 0.25" or larger Depending on Lens Used |
| Illumination: | Unlimited |
| Ambient Temperature: | Proprietary |
| Power: | 40 to 160° F (4 to 70° C) |
| Specifications are subject to change without notice. | |



R.K.B. OPTO-ELECTRONICS, INC.

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Model 9001 MicroSpec® Web Inspection Technology

Detect and Categorize All Impurity Defects

The Model 9001 MicroSpec® Web Inspection Technology uses an array of high speed CCD Line and Streak Scan cameras. The sensors are outfitted with custom designed lenses emulating laboratory class microscopic equipment to facilitate online, high speed analysis. The sensors are usually positioned with small field of views, approximately 6.35 mm, cross direction. Each sensor has a proprietary light enhancement module designed to illuminate and enhance the area of inspection so that the defects pop with significantly higher signal to noise ratios than conventional systems like laser or photocell can provide. The electronic signal is then processed in patented RKB noise reduction circuitry providing unprecedented performance in a single web inspection system.

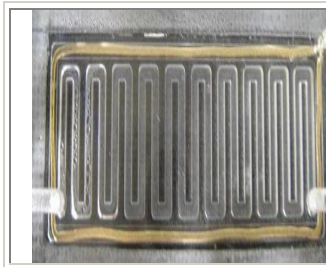


Span The Entire Web

Each Model 9001 MicroSpec® Web Inspection Technology is designed to span the entire web width for 100% inspection of the web material. Now products can be fully qualified prior to shipment to customers. Our QAMS® Quality Assurance Management System software is also included with each system to provide complete data collection, analysis, reporting, setup, and diagnostic capabilities

Call RKB

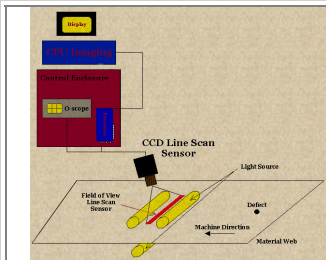
Call us to discuss your inspection requirements and to learn more about the industry's most cost effective and reliable online microscopic detector in the world.



Industrial Fuel Cell



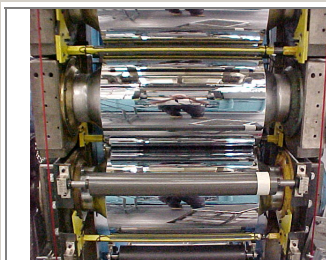
Video Tapes



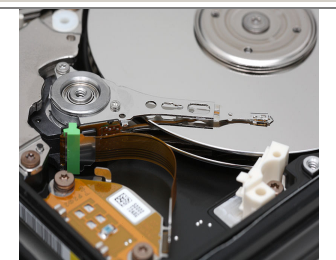
Defect Detection Methodology



Instrumentation Tape



Calendar Used in Magnetic Media Production



Mass Data Storage



Automotive Fuel Cell



Solar Panel

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